



## **Cisco Nexus 9000 Series NX-OS Command Reference (Configuration Commands), Release 7.0(3)I3(1)**

**First Published:** 2016-05-24

**Last Modified:** 2018-02-07

### **Americas Headquarters**

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





## CONTENTS

---

### PREFACE

<b>Preface</b>	<b>xcix</b>
Audience	<b>xcix</b>
Documentation Conventions	<b>xcix</b>
Documentation Feedback	<b>c</b>
Communications, Services, and Additional Information	<b>c</b>

---

### CHAPTER 1

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

---

### CHAPTER 2

<b>A Commands</b>	<b>3</b>
aaa accounting default	<b>7</b>
aaa accounting dot1x default group	<b>8</b>
aaa accounting onep default group	<b>9</b>
aaa authentication cts default group	<b>10</b>
aaa authentication dot1x default group	<b>11</b>
aaa authentication login	<b>12</b>
aaa authentication login enable	<b>13</b>
aaa authentication login ascii-authentication	<b>14</b>
aaa authentication login console	<b>15</b>
aaa authentication login default	<b>17</b>
aaa authentication login error-enable	<b>19</b>
aaa authentication login password-aging enable	<b>20</b>
aaa authentication onep default group	<b>21</b>
aaa authorization	<b>22</b>
aaa authorization2 default2	<b>23</b>
aaa authorization local	<b>24</b>

aaa authorization cts default group	25
aaa group server ldap	26
aaa group server radius	27
aaa group server tacacs	28
aaa user default-role	29
abort (mst)	30
abort	31
absolute-timeout	32
accept-lifetime	33
access-class (line)	35
access-class (tls)	36
access-list	37
action	38
action counter-name	39
action (event-manager-applet)	40
action cli	41
action event-default	42
action policy-default	43
action syslog	44
action snmp-trap	45
action exceptionlog module	46
action forward redirect	47
action reload	48
action overbudgetshut	49
action forceshut	50
activate	51
activity-timer	52
additional-paths install backup	53
additional-paths receive	54
additional-paths selection route-map	55
additional-paths send	56
address-family ipv4	57
address-family ipv4 (router-bgp-vrf)	58
address-family ipv4 (router-bgp-vrf-prefixneighbor)	59

address-family ipv4 mvpn	60
address-family ipv4 unicast	61
address-family ipv4 unicast (vrf)	62
address-family ipv4 unicast (router-eigrp-vrf-common)	63
address-family ipv4 unicast (mpls_static)	64
address-family ipv4 unicast (router-rip-vrf)	65
address-family ipv4 unicast (router-isis-vrf-common)	66
address-family ipv6	67
address-family ipv6	68
address-family ipv6	69
address-family ipv6 mvpn	70
address-family ipv6 unicast	71
address-family ipv6 unicast (router-ospf3)	72
address-family ipv6 unicast (vrf)	73
address-family ipv6 unicast (vrf)	74
address-family ipv6 unicast (router-eigrp-vrf-common)	75
address-family ipv6 unicast mpls_static	76
address-family ipv6 unicast (router-rip-vrf)	77
address-family ipv6 unicast (router-isis-vrf-common)	78
address	79
address (ipnat-pool)	80
address secondary	81
address primary	82
address (vrrpv3)	83
address (if-eth-any/vrrs)	84
address (vrrs)	85
address (vrrp)	86
address (vrrp)	87
adjacency-check	88
adjacency-resolve	89
advertise-labels	90
advertise-map	91
advertisement-interval	92
advertisement-interval	93

affinity	94
affinity	95
aggregate-address	96
aggregate-address (router-bgp-vrf-af-ipv6)	97
allocate1 interface2	98
allocate2 fcoe-vlan-range	99
allocate3 shared interface3	100
allow delete boot-image	101
allow feature-set	102
allowas-in	103
allowas-in	104
allowed-locators	105
allowed-vlans	106
amt flush-routes	107
amt pseudo-interface	108
analysis module	109
anonymous-id	110
append-after	111
apply profile	112
area	113
area stub	114
area nssa	115
area nssa translate type7	116
area virtual-link (routerid)	117
area virtual-link	118
area range	119
area default-cost	120
area filter-list route-map	121
area authentication	122
area default-cost	123
area stub	124
area nssa	125
area nssa translate type7	126
area virtual-link	127

area virtual-link	128
area filter-list route-map	129
as-format asdot	130
as-override	131
attach module	132
attach module node	133
attach module port	134
auth-mechanism	135
authentication-check	136
authentication-check level-1	137
authentication-check level-2	138
authentication-key	139
authentication-key	140
authentication-key	141
authentication-type	142
authentication-type	143
authentication	144
authentication (router-eigrp-af-common)	145
authentication key-chain	146
authentication type	147
authentication lifetime	148
authentication window-size	149
authentication challenge	150
authentication (router-ospf-slink)	151
authentication (ldap)	152
authentication (hsrp_ipv6)	153
authentication (glbp)	154
authentication key-chain	155
authentication key-chain (router-ospf-slink)	156
authentication key-chain (otv-isis-vrf-common)	157
authentication key-chain (router-isis-vrf-common)	158
authentication text	159
auto-bw	160
auto-bw (if-te)	161

auto-bw timers 162  
auto-cost reference-bandwidth 163  
auto-cost reference-bandwidth (vrf) 164  
auto-recovery 165  
auto-remap-replication-servers 166  
autonomous-system 167  
autoroute announce 168  
autoroute metric 169  
autostate 170  
autovlan enable 171  
awk 172

---

**CHAPTER 3****B Commands 173**

backoff 175  
backup-bw 176  
bandwidth 177  
bandwidth inherit 178  
bandwidth inherit 179  
bandwidth (if-eth-port-channel-p2p) 180  
bandwidth (if-vlan-common) 181  
bandwidth (plc/class) 182  
bandwidth (cbts-member) 183  
bandwidth (if-any-tunnel) 184  
bandwidth (queuing/class) 185  
banner motd 186  
bcm-shell module 187  
bcm-shell module 188  
beacon 189  
begin 190  
bestpath 191  
bestpath 192  
bestpath compare-neighborid 193  
bfd-app session auto-expiry 194  
bfd-app session remove 195



bfd-app session src-ip	196
bfd	197
bfd (router-eigrp )	198
bfd (router-isis-af-ipv6)	199
bfd (router-bgp-neighbor-sess)	200
bfd interval multiplier	201
bfd echo-rx-interval	202
bfd interval	203
bfd authentication	204
bfd optimize subinterface	205
bfd echo	206
bfd slow-timer	207
bfd (if-eth-port-channel)	208
bfd (if-ma)	209
bfd (router-ospf3/vrf)	210
bfd echo-interface	211
bfd move-session target	212
bfd neighbor src-ip	213
bfd session-store remove	214
bfd session-store source-ip	215
bfd startup-timer	216
bfd system internal	217
blink	220
bloggerd delete	221
bloggerd live-process-core process	222
bloggerd live-process-core sap	223
bloggerd log-dump	224
bloggerd log-dump once log-buffer sap	225
bloggerd log-dump once pss uuid	226
bloggerd log-throttle	227
bloggerd log-transfer	228
bloggerd log-transfer	229
bloggerd mleak-check directory1	230
bloggerd mleak-dump all	231

bloggerd parse log-buffer	232
bloggerd parse log-buffer file	233
bloggerd parse pss file	234
boot-install nxos	235
boot-order	236
boot	237
boot aci	238
boot auto-copy	239
boot kickstart	240
boot nxos	241
boot order bootflash	242
boot order pxe	243
boot system	244
bootmode boot	245
bootmode extruntime	246
bootmode hitless	247
bootmode module	248
bootmode nodiagruntime	249
bootmode runtime	250
buffer-boost	251
buffer-delete	252
buffer-move	253

---

**CHAPTER 4****C Commands 255**

callhome	266
callhome send configuration	267
callhome send diagnostic	268
callhome send eem subject	269
capability additional-paths receive	270
capability additional-paths send	271
capability suppress 4-byte-as	272
capture session	273
carrier-delay	274
cbts-member tunnel-te	275

cd 276

cdp advertise 277

cdp enable 278

cdp enable 279

cdp format device-id 280

cdp holdtime 281

cdp timer 282

cfs clear message-context name 283

cfs distribute 284

cfs eth cos 285

cfs eth distribute 286

cfs internal 287

cfs internal cfsoe 288

cfs ipv4 289

cfs ipv6 290

cfs merge all-fabrics name 291

cfs region 292

change-password 293

checkpoint 294

checkpoint 295

class-map 296

class-map type control-plane 297

class-map type network-qos 298

class-map type psp 299

class-map type queuing 300

class-map type queuing 301

class 302

class 303

class \_\_inline 304

class class-default 305

class type network-qos 306

class type network-qos class-default 307

class type psp 308

class type queuing 309

clean ip bfd	310
clean ipv6 bfd	311
clear	312
clear topology	313
clear eigrp events	314
clear logging	315
clear (vrf)	316
clear eigrp accounting	317
clear eigrp traffic	318
clear eigrp event-history	319
clear eigrp	320
clear access-list counters	321
clear (keystore   sksd)	322
clear ipv6	323
clear all	324
clear access-list hardware counters	325
clear accounting log	326
clear bfd statistics	327
clear bgp	328
clear bgp event-history	330
clear bootvar log	331
clear cdp	332
clear checkpoint database	333
clear copp statistics	334
clear cores	335
clear cores archive	336
clear counters	337
clear counters buffers	338
clear counters interface	339
clear counters interface all	340
clear counters mpls strip	341
clear dot1x all	342
clear evb	343
clear evb	344

clear evb internal adjacency	345
clear evb internal event-history	346
clear evb statistics	347
clear fabric database dci vrf	348
clear fabric database host	349
clear fabric database host statistics	350
clear fabric database include-vrf	351
clear fabric database statistics	352
clear fabric database statistics type	353
clear fabric database statistics type server-proto radius group	354
clear flow exporter	355
clear flow monitor	356
clear forwarding	357
clear forwarding cumulative counter	358
clear forwarding internal message counts	359
clear forwarding internal unicast counts	360
clear forwarding ipv4 multicast counters	361
clear forwarding ipv6 adjacency mpls stats	362
clear forwarding ipv6 multicast counters	363
clear forwarding l2mcast info statistics	364
clear forwarding l2vpn trace member-history	365
clear forwarding mpls drop-stats	366
clear forwarding mpls stats	367
clear forwarding mpls trace adj-history	368
clear forwarding mpls trace ecmp-history	369
clear forwarding mpls trace label-history	370
clear forwarding mpls trace te-history	371
clear forwarding trace ecmp-history	372
clear forwarding trace mfib oif-history	373
clear forwarding trace mfib oiflist-history	374
clear forwarding trace mfib otv oif-history	375
clear forwarding trace mfib otv oiflist-history	376
clear forwarding trace mfib otv v4-route-history	377
clear forwarding trace mfib otv v6-route-history	378

clear forwarding trace mfib platform oiflist-history	379
clear forwarding trace mfib v4-route-history	380
clear forwarding trace mfib v6-route-history	381
clear forwarding trace nve-l3-vni-history	382
clear forwarding trace nve-peer-history	383
clear forwarding trace otv-adj-history	384
clear forwarding trace otv-vlan-history	385
clear forwarding trace v4-adj-history	386
clear forwarding trace v4-pfx-history	387
clear forwarding trace v4-rnh-history	388
clear forwarding trace v6-adj-history	389
clear forwarding trace v6-pfx-history	390
clear forwarding trace v6-rnh-history	391
clear forwarding trace vobj-history	392
clear frame traffic	393
clear fs-daemon log	394
clear hardware	395
clear hardware flow ip	397
clear hardware flow ipmac	398
clear hardware flow ipv6	399
clear hardware flow l2	400
clear hardware flow mpls	401
clear hardware internal forwarding adjacency statistics default-route	402
clear hardware internal forwarding l3 counters	403
clear hardware internal interface-all asic counters	404
clear hardware internal ns interrupts	405
clear hardware rate-limiter	406
clear hsrp counters	407
clear icmpv6 cache	408
clear install all failed-standby	409
clear install failure-reason	410
clear install log-history	411
clear install status	412
clear ip adjacency	413

clear ip adjacency cache	414
clear ip adjacency statistics	415
clear ip amt tunnel	416
clear ip arp	417
clear ip arp cache	418
clear ip arp event-history	419
clear ip arp inspection log	420
clear ip arp inspection statistics vlan	421
clear ip arp statistics	422
clear ip arp suppression-cache statistics	423
clear ip arp suppression	424
clear ip arp tunnel-statistics	425
clear ip arp vpc-statistics	426
clear ip cache	427
clear ip dhcp global statistics	428
clear ip dhcp relay statistics	429
clear ip dhcp snooping binding	430
clear ip dhcp snooping statistics	431
clear ip dns all config	432
clear ip dns use-vrf config	433
clear ip eigrp	434
clear ip eigrp	435
clear ip ftm statistics	436
clear ip igmp	437
clear ip igmp event-history	438
clear ip igmp interface statistics	439
clear ip igmp internal mrib-cache	440
clear ip igmp snooping	441
clear ip igmp snooping event-history	442
clear ip igmp snooping explicit-tracking	443
clear ip igmp snooping groups	444
clear ip igmp snooping proxy querier ports	445
clear ip igmp snooping statistics	446
clear ip igmp snooping vpc peer-link-exclude vlan	447

clear ip interface statistics	448
clear ip lisp map-cache	449
clear ip lisp statistics	450
clear ip mbgp	451
clear ip mbgp	452
clear ip mbgp	454
clear ip msdp	456
clear ip msdp event-history	457
clear ip msdp peer	458
clear ip msdp policy statistics sa-policy	459
clear ip msdp statistics	460
clear ip nat translation	461
clear ip ospf	462
clear ip ospf traffic	463
clear ip ospf neighbor	464
clear ip ospf policy statistics	465
clear ip ospf interface	467
clear ip ospf database	468
clear ip ospf redistribution	469
clear ip pim event-history	470
clear ip pim interface statistics	471
clear ip pim policy statistics	472
clear ip pim policy statistics	473
clear ip pim route	474
clear ip pim statistics	475
clear ip rip policy statistics redistribute bgp	476
clear ip rsvp authentication	477
clear ip rsvp counters	478
clear ip rsvp hello instance counters	479
clear ip rsvp internal counters	480
clear ip rsvp reservation	481
clear ip rsvp sender	482
clear ip rsvp signalling	483
clear ip stats	484



clear ip traffic	485
clear ip vip	486
clear ipv6	487
clear ipv6	488
clear ipv6 adjacency	489
clear ipv6 adjacency statistics	490
clear ipv6 amt tunnel	491
clear ipv6 cache	492
clear ipv6 dhcp relay statistics	493
clear ipv6 eigrp	494
clear ipv6 icmp vpc-statistics	495
clear ipv6 interface statistics	496
clear ipv6 lisp statistics	497
clear ipv6 mtu	498
clear ipv6 neighbor	499
clear ipv6 netstack mroute	500
clear ipv6 pim event-history	501
clear ipv6 pim interface statistics	502
clear ipv6 pim policy statistics	503
clear ipv6 pim route	504
clear ipv6 pim statistics	505
clear ipv6 rip policy statistics redistribute bgp	506
clear ipv6 statistics	507
clear ipv6 traffic	508
clear isis	509
clear isis ipv6 route-map statistics	511
clear isis statistics	513
clear isis dpi	514
clear isis spf-log	515
clear isis traffic	516
clear isis adjacency	517
clear isis event-history	518
clear isis redistribution	519
clear itd statistics	520

clear l2fwder statistics	521
clear lacp counters	522
clear ldap-server statistics	523
clear license	524
clear lim counters	525
clear line	526
clear lisp ddt referral-cache	527
clear lisp dynamic-eid	528
clear lisp internal event-history	529
clear lisp proxy-itr	530
clear lisp site	531
clear lldp counters	532
clear lldp counters interface	533
clear logging logfile	534
clear logging nvram	535
clear logging onboard	536
clear logging onboard	537
clear logging session	538
clear login failures	539
clear mac address-table datapath	540
clear mmode database	541
clear mpls forwarding statistics	542
clear mpls ldp internal counters	543
clear mpls ldp neighbor	544
clear mpls strip labels	545
clear mpls switching label statistics	546
clear mpls traffic-eng auto-bw timers	547
clear mpls traffic-eng internal counters	548
clear mpls traffic-eng link-management counters	549
clear mpls traffic-eng tunnel counters	550
clear ntp session	551
clear ntp statistics	552
clear nve peers	553
clear nve peers history-log	554

clear nve vni	555
clear nvram	556
clear onep error	557
clear onep history	558
clear onep session rate-limit	559
clear onep statistics	560
clear onep trace	561
clear ospfv3	562
clear ospfv3	563
clear ospfv3	564
clear ospfv3	566
clear ospfv3	567
clear ospfv3	568
clear ospfv3	569
clear ospfv3	570
clear otv arp-nd	571
clear otv isis	572
clear otv isis	573
clear otv isis	574
clear otv isis	575
clear otv isis	576
clear otv isis	577
clear otv isis	578
clear pktmgr cache	579
clear pktmgr client	580
clear pktmgr interface	581
clear port-profile command-cache	582
clear port-profile database	583
clear port-security dynamic address	584
clear port-security dynamic interface	585
clear port-security nvram	586
clear port-security nvram force	587
clear processes log all	588
clear processes log all vdc-all	589

clear processes log archive 590

clear processes log pid 591

clear processes vdc 592

clear processes vdc 593

clear ptp counters 594

clear qos mpls-snm 595

clear qos policies 596

clear qos policies force 597

clear qos statistics 598

clear radius-server statistics 599

clear radius session 600

clear rmon 601

clear route-map 602

clear routing 603

clear routing 604

clear routing ipv6 605

clear rpm pss 606

clear scheduler logfile 607

clear screen 608

clear service module slot 609

clear session state name 610

clear sflow statistics 611

clear snmp counters 612

clear snmp hostconfig 613

clear sockets statistics 614

clear spanning-tree counters 615

clear spanning-tree detected-protocols 616

clear spanning-tree sps-hist 617

clear ssh hosts 618

clear system internal forwarding pd-history 619

clear system internal forwarding pd-history bitmask 620

clear system internal forwarding unicast counters 621

clear system internal iscm packet-stats service 622

clear system internal npacl event-history 623

clear system internal orib event-history	624
clear system reset-reason	625
clear system reset-reason history	626
clear tacacs-server statistics	627
clear tech-support lock	628
clear tech-support lock	629
clear track internal info counters	630
clear user	631
clear veobc counters	632
clear vlan	633
clear vlan access-list counters	634
clear vmtracker counters	635
clear vpc statistics	636
clear vpc statistics all	637
clear vpc statistics peer-keepalive	638
clear vpc transport statistics	639
clear vrrp statistics	640
clear vrrpv3 statistics	641
clear xl	642
cli alias name	643
cli no var name	644
cli reload parsetree	645
cli show running-config local	646
cli var name	647
cli var name	648
cli var name	649
cli verifyrun	650
client-to-client reflection	651
clock-tolerance	652
clock	653
clock format	654
clock format show-timezone syslog	655
clock protocol	656
clock set	657

clock sync-interval 659

cluster-id 660

collect counter 661

collect flow sampler id 662

collect ip version 663

collect routing destination as 664

collect routing forwarding-status 665

collect routing next-hop address ipv4 666

collect routing next-hop address ipv6 667

collect routing source as 668

collect timestamp sys-uptime 669

collect transport tcp flags 670

commit 671

commit verbose 672

compress-bitfields ipv6 multicast 673

confederation identifier 674

confederation peers 675

configure 676

configure maintenance profile 677

configure session 678

congestion-control ecn 679

congestion-control random-detect 680

congestion-control random-detect global-buffer minimum-threshold 681

congestion-control tail-drop 682

connect 683

continue 684

contract-id 685

control-plane 686

control vlan 687

controller tech-support 688

controller type l2-vxlan identifier 689

copp clear policy pps 690

copp copy profile 691

copp distributed-policing enable 692

copp profile	693
copp profile	694
copp rate-limit disable	695
copy	696
copy	697
copy	698
copy	699
copy recursive	700
copy licenses	701
core-on-no-memory	702
core-on-no-memory	703
cost	704
count	705
counter name	706
cpu threshold	707
cpu threshold rising	708
crypto ca authenticate	709
crypto ca crt request	710
crypto ca enroll	711
crypto ca export	712
crypto ca import	713
crypto ca import	714
crypto ca lookup	715
crypto ca remote ldap	716
crypto ca trustpoint	717
crypto cert ssh-authorize	718
crypto certificatemap mapname	719
crypto key generate rsa	720
crypto key param rsa label	721
crypto key zeroize rsa	722
customer-id	723
cut	724

dampen-igp-metric	729
dampening	730
data-pattern	731
database-mapping	732
databits	733
databits	734
datapath transport mts	735
db-jid	736
db-security user	737
db-table	738
dead-interval	739
dead-interval	740
dead-interval	741
deadtime	742
deadtime	743
deadtime	744
dec	745
default-information originate	746
default-information originate	747
default-information originate	748
default-information originate	749
default-information originate	750
default-information originate	751
default-metric	752
default-metric	753
default-metric	754
default-metric	755
default-metric	756
default-originate	757
define	758
delay	759
delay	760
delay	761
delay	762



delay restore	763
delay restore interface-vlan	764
delete	765
delete ca-certificate	766
delete certificate	767
delete crl	768
demand-circuit	769
description	770
description	771
description	772
description	773
description	774
description	775
description	776
description	777
description	778
description	779
description	780
description	781
description	782
description	783
description	784
description	785
description	786
description	787
description	788
description	789
description	790
description	791
description	792
description	793
description	794
description	795
dest-ipaddr	796

dest-port	797
destination-profile	798
destination-profile	799
destination-profile	800
destination-profile	801
destination-profile	802
destination-profile	803
destination-profile	804
destination-profile	805
destination-profile CiscoTAC-1 email-addr	806
destination-profile CiscoTAC-1 http	807
destination-profile CiscoTAC-1 message-level	808
destination-profile CiscoTAC-1 message-size	809
destination-profile CiscoTAC-1 transport-method email	810
destination-profile CiscoTAC-1 transport-method http	811
destination-profile full-txt-destination email-addr	812
destination-profile full-txt-destination http	813
destination-profile full-txt-destination message-level	814
destination-profile full-txt-destination message-size	815
destination-profile full-txt-destination transport-method email	816
destination-profile full-txt-destination transport-method http	817
destination-profile short-txt-destination email-addr	818
destination-profile short-txt-destination http	819
destination-profile short-txt-destination message-level	820
destination-profile short-txt-destination message-size	821
destination-profile short-txt-destination transport-method email	822
destination-profile short-txt-destination transport-method http	823
destination	824
destination	825
device-group	826
diagnostic bootup level	827
diagnostic eem action aggressive	828
diagnostic pss shrink	829
diff-clean	830

diff-clean all-users	831
diff	832
dir	833
disable-connected-check	834
disable-memory-alert-check	835
disable-peer-as-check	836
disable-peer-as-check	837
disable-policy-batching	838
disable	839
discard-route	840
discard-route	841
discovery	842
distance	843
distance	844
distance	845
distance	846
distance	847
distance	848
distribute-list	849
distribute	850
dns	851
dont-capability-negotiate	852
dos2nxos	853
dot1q default dynamic	854
dot1x default	855
dot1x default	856
dot1x mac-auth-bypass	857
dot1x max-reauth-req	858
dot1x max-req	859
dot1x max-req	860
dot1x port-control	861
dot1x radius-accounting	862
dot1x re-authenticate	863
dot1x re-authentication	864

dot1x re-authentication	865
dot1x show credential	866
dot1x system-auth-control	867
dot1x timeout quiet-period	868
dot1x timeout quiet-period	869
dot1x timeout ratelimit-period	870
dot1x timeout re-authperiod	871
dot1x timeout re-authperiod	872
dot1x timeout server-timeout	873
dot1x timeout supp-timeout	874
dot1x timeout tx-period	875
dot1x timeout tx-period	876
down-bit-ignore	877
downlink delay	878
dscp	879
dual-active exclude interface-vlan	880
duplex	881
duplex	882
duplex	883
duplicate-message throttle	884
dynamic-capability	885
dynamic-med-interval	886

---

**CHAPTER 6****E Commands 887**

ebgp-multihop	892
echo	893
eid-notify	894
eid-notify authentication-key	895
eid-prefix	896
eltn distribute	897
email-addr	898
email-contact	899
email	900
email	901

enable	902
enable	903
enable	904
encapsulation dot1Q	905
encapsulation dot1Q	906
encrypt pause-frame	907
encryption decrypt type6	908
encryption delete type6	909
encryption re-encrypt obfuscated	910
end-job	911
end	912
enforce-first-as	913
enrollment terminal	914
errdisable detect cause acl-exception	915
errdisable port detect cause acl-exception	916
errdisable recovery interval	917
ethalyzer local	918
ethernet-tag encapsulation dot1q	919
ethernet-tag encapsulation dot1q default	920
ethernet-tag encapsulation vni	921
ethernet-tag encapsulation vni default	922
evb batch-response disable	923
evb mac	924
evb reinit-keep-alive	925
evb resource-wait-delay	926
event-history	927
event-history	928
event-history adbm category all	929
event-history adbm category fc2	930
event-history adbm category mts	931
event-history adbm no category all	932
event-history adbm no category fc2	933
event-history adbm no category mts	934
event-history callhome	935

event-history capability	936
event-history copp category all	937
event-history copp category fc2	938
event-history copp category mts	939
event-history copp no category all	940
event-history copp no category fc2	941
event-history copp no category mts	942
event-history detail	943
event-history dot1x	944
event-history eltm category all	945
event-history eltm category fc2	946
event-history eltm category mts	947
event-history eltm no category all	948
event-history eltm no category fc2	949
event-history eltm no category mts	950
event-history ethpm	951
event-history exceptionlog	952
event-history im no category mts	954
event-history interface vlan	955
event-history interface vlan	956
event-history interface vlan	957
event-history lacp category all	958
event-history lacp category fc2	959
event-history lacp category mts	960
event-history lacp no category all	961
event-history lacp no category fc2	962
event-history lacp no category mts	963
event-history license	964
event-history lldp category all	965
event-history lldp category fc2	966
event-history lldp category mts	967
event-history lldp no category all	968
event-history lldp no category fc2	969
event-history lldp no category mts	970

event-history mmode	971
event-history module	972
event-history pfstat category all	973
event-history pfstat category fc2	974
event-history pfstat category mts	975
event-history pfstat no category all	976
event-history pfstat no category fc2	977
event-history pfstat no category mts	978
event-history platform buffer-size	979
event-history platform category	980
event-history platform no category	981
event-history pltfm_config category all	982
event-history pltfm_config category fc2	983
event-history pltfm_config category mts	984
event-history pltfm_config no category all	985
event-history pltfm_config no category fc2	986
event-history pltfm_config no category mts	987
event-history plugin	988
event-history poap category all	989
event-history poap category fc2	990
event-history poap category mts	991
event-history poap no category all	992
event-history poap no category fc2	993
event-history poap no category mts	994
event-history port-profile	995
event-history port-profile	996
event-history port-security category all	997
event-history port-security category fc2	998
event-history port-security category mts	999
event-history port-security no category all	1000
event-history port-security no category fc2	1001
event-history port-security no category mts	1002
event-history port_client category all	1003
event-history port_client category fc2	1004

event-history port_client category mts	1005
event-history port_client no category all	1006
event-history port_client no category fc2	1007
event-history port_client no category mts	1008
event-history private-vlan	1009
event-history private-vlan	1010
event-history private-vlan	1011
event-history sensor	1012
event-history session-mgr category all	1013
event-history session-mgr category mts	1014
event-history session-mgr no category all	1015
event-history session-mgr no category mts	1016
event-history sflow	1017
event-history snmp	1018
event-history spanning-tree category all	1019
event-history stripcl category all	1020
event-history stripcl category mts	1021
event-history stripcl no category all	1022
event-history udld category all	1023
event-history vdc category all	1024
event-history vdc no category all	1025
event-history vdc no category mts	1026
event-history xbar category all	1027
event-history xbar category mts	1028
event-history xbar no category all	1029
event-history xbar no category mts	1030
event-log-size	1031
event-logging	1032
event	1033
event	1034
event application	1035
event cli	1036
event counter	1037
event fanabsent	1038



event fanbad	1039
event manager applet	1040
event manager clear counter	1041
event manager clear history events	1042
event manager command maximum-timeout	1043
event manager environment	1044
event manager policy	1045
event manager run	1046
event manager script	1047
event memory	1048
event module-failure	1049
event module	1050
event none	1051
event oir	1052
event oir	1053
event oir	1054
event policy-default count	1055
event poweroverbudget	1056
event snmp	1057
event storm-control	1059
event sysmgr memory	1060
event sysmgr switchover count	1061
event temperature	1062
event timer	1063
event track	1064
exceptionlog module	1065
exclude access-list	1066
exec-timeout	1067
exec-timeout	1068
exit	1069
exit	1070
exp	1071
explicit-null	1072
explicit-path	1073

export map 1074  
export vrf default 1075  
exporter 1076

---

**CHAPTER 7****F Commands 1077**

failaction 1079  
fast-external-falover 1080  
fast-flood enable 1081  
fast-flood enable 1082  
fast-flood interval 1083  
fast-flood interval 1084  
fast-reroute 1085  
fast-reroute backup-prot-preempt optimize-bw 1086  
feature-set 1087  
feature-set 1088  
feature 1089  
feature bash-shell 1090  
feature bfd 1091  
feature bgp 1092  
feature eigrp 1093  
feature evmed 1094  
feature fabric forwarding 1095  
feature interface-vlan 1096  
feature isis 1097  
feature lacp 1098  
feature ldap 1099  
feature lldp 1100  
feature msdp 1101  
feature ntp 1102  
feature nxapi 1103  
feature ospf 1104  
feature ospfv3 1105  
feature password encryption aes 1106  
feature pbr 1107

feature pim	1108
feature poap	1109
feature privilege	1110
feature rip	1111
feature scheduler	1112
feature scp-server	1113
feature sftp-server	1114
feature ssh	1115
feature tacacs	1116
feature telnet	1117
feature vtp	1118
fhrp delay minimum	1119
fhrp delay reload	1120
fileys delete	1121
filter-list	1122
filter	1123
find	1124
fips mode enable	1125
flow exporter	1126
flow monitor	1127
flow record	1128
flow timeout	1129
flow timeout active	1130
flow timeout aggressive threshold	1131
flow timeout fast	1132
flow timeout inactive	1133
flow timeout session	1134
flowcontrol	1135
flowcontrol hardware	1136
flush-routes	1137
flush-routes	1138
flush-routes	1139
flush-routes	1140
flush-routes	1141

flush-routes 1142  
 follow 1143  
 forceshut 1144  
 forwarder preempt 1145  
 forwarding-adjacency 1146  
 fragments 1147  
 frequency 1148  
 from 1149

---

**CHAPTER 8**
**G Commands 1151**

generate type7\_encrypted\_secret 1152  
 getnext 1153  
 graceful-restart-helper 1154  
 graceful-restart 1155  
 graceful-restart 1156  
 graceful-restart 1157  
 graceful-restart 1158  
 graceful-restart 1159  
 graceful-restart 1160  
 graceful-restart 1161  
 graceful-restart grace-period 1162  
 graceful-restart grace-period 1163  
 graceful-restart helper-disable 1164  
 graceful-restart helper-disable 1165  
 graceful-restart restart-time 1166  
 graceful-restart stalepath-time 1167  
 graceful-restart t3 manual 1168  
 graceful-restart t3 manual 1169  
 graceful consistency-check 1170  
 grep 1171  
 grep 1172  
 grep 1173  
 guestshell 1174  
 gunzip 1175

gzip 1176

---

CHAPTER 9

**H Commands 1177**

ha-policy 1179

ha-stateful 1180

hardware access-list 1181

hardware access-list lou resource threshold 1182

hardware access-list tcam region 1183

hardware access-list tcam region 1184

hardware access-list tcam region ifacl 1185

hardware access-list tcam region openflow 1186

hardware ecmp hash-polynomial 1187

hardware ejector enable 1188

hardware fan-zone 1189

hardware forwarding funcstats clear 1190

hardware forwarding funcstats disable 1191

hardware forwarding funcstats enable 1192

hardware forwarding l3 resource route non-deterministic 1193

hardware ip glean throttle 1194

hardware ip glean throttle maximum 1195

hardware ip glean throttle syslog 1196

hardware ip glean throttle timeout 1197

hardware ipv6 glean throttle 1198

hardware ipv6 glean throttle maximum 1199

hardware ipv6 glean throttle syslog 1200

hardware ipv6 glean throttle timeout 1201

hardware module boot-order reverse 1202

hardware profile buffer info poll-interval 1203

hardware profile buffer info port-threshold 1204

hardware profile ecmp auto-recovery threshold 1205

hardware profile ecmp resilient 1206

hardware profile pfc mmu buffer-reservation 1207

hardware profile portmode 1208

hardware profile ucast6 lpm-65-to-127-max-limit 1209

hardware profile ucast6 max-limit	1210
hardware sample-redirect module	1211
head	1212
hello-interval	1213
hello-interval	1214
hello-interval	1215
hex	1216
history	1217
history	1218
history	1219
history	1220
history	1221
history buffer	1222
history syslog	1223
hold ip	1224
hold ipv6 route	1225
hold timeout	1226
holdtime	1227
host-reachability protocol bgp	1228
host-reachability protocol controller	1229
hostname	1230
hostname dynamic	1231
hostname dynamic	1232
hsrp	1233
hsrp	1234
hsrp anycast	1235
hsrp bfd	1236
hsrp bfd all-interfaces	1237
hsrp delay	1238
hsrp force state vlan	1239
hsrp internal	1240
hsrp mac-refresh	1241
hsrp timers extended-hold	1242
hsrp version	1243

human	1244
hw-module logging onboard	1245
hw-module logging onboard	1246

---

**CHAPTER 10**
**I Commands 1247**

icmp-echo	1260
icmpv6 cache disable	1261
icmpv6 cfs-queue	1262
icmpv6 library mts-queue	1263
icmpv6 mts-queue	1264
import	1265
import interface	1266
import map	1267
import running-config	1268
import vrf default	1269
in-order-guarantee	1270
include profile	1271
include profile any	1272
index	1273
ingress-replication	1274
ingress-replication protocol bgp	1275
ingress-replication protocol static	1276
ingress interface	1277
inherit peer-policy	1278
inherit peer-policy	1279
inherit peer-session	1280
inherit peer	1281
inherit port-profile	1282
inject-map	1283
install	1284
install activate	1285
install add	1286
install commit	1287
install deactivate	1288

install epld	1289
install epld	1290
install epld	1291
install feature-set fex	1292
install feature-set mpls	1293
install license	1294
install module	1295
install remove	1296
instance-id	1297
instance	1298
instance	1299
instance	1300
interface-vlan	1301
interface-vlan reset credits	1302
interface	1303
interface	1304
interface	1305
interface	1306
interface	1307
interface	1308
interface	1309
interface	1310
interface	1311
interface down delay	1312
ip	1313
ip	1314
ip	1315
ip	1316
ip	1317
ip	1318
ip	1319
ip	1320
ip	1321
ip	1322



ip	1323
ip	1324
ip	1325
ip	1326
ip	1327
ip	1328
ip	1329
ip	1330
ip	1331
ip	1332
ip	1333
ip	1334
ip	1335
ip	1336
ip	1337
ip	1338
ip	1339
ip	1340
ip	1341
ip	1342
ip	1343
ip	1344
ip	1345
ip	1346
ip	1347
ip	1348
ip	1349
ip	1350
ip	1351
ip	1352
ip	1353
ip access-class	1354
ip access-group	1355
ip access-list	1356

ip access-list match-local-traffic	1357
ip adjacency	1358
ip adjacency	1359
ip adjacency	1360
ip adjacency cache disable	1361
ip adjacency l2fm-reg	1362
ip adjacency notify interval	1363
ip adjacency route distance	1364
ip adjacency statistics collect	1365
ip adjacency statistics interval	1366
ip allow address-overlap	1367
ip allow port	1368
ip amt anycast-gateway-address	1369
ip amt anycast-relay-prefix	1370
ip amt gateway	1371
ip amt gateway send-discovery	1372
ip amt relay-advertisement-address	1373
ip amt relay	1374
ip arp	1375
ip arp broadcast mac-mismatch	1376
ip arp cache disable	1377
ip arp cache limit	1378
ip arp cfs-queue	1379
ip arp garp-storm	1380
ip arp garp-storm timer	1381
ip arp gratuitous hsrp duplicate	1382
ip arp gratuitous hsrp duplicate	1383
ip arp gratuitous request	1384
ip arp gratuitous update	1385
ip arp inspection log-buffer	1386
ip arp inspection trust	1387
ip arp inspection validate	1388
ip arp inspection vlan	1389
ip arp mts-queue	1390

ip arp off-list timeout	1391
ip arp rarp fabric-forwarding	1392
ip arp rarp fabric-forwarding rate-limit	1393
ip arp request	1394
ip arp synchronize	1395
ip arp synchronize	1396
ip arp timeout	1397
ip arp timeout	1398
ip as-path access-list	1399
ip as-path access-list	1400
ip auto-discard	1401
ip cache disable	1402
ip community-list expanded	1403
ip community-list standard	1404
ip community-list standard	1405
ip default-gateway	1406
ip dhcp packet strict-validation	1407
ip dhcp relay	1408
ip dhcp relay address	1409
ip dhcp relay information option	1410
ip dhcp relay information option trust	1411
ip dhcp relay information option vpn	1412
ip dhcp relay information trust-all	1413
ip dhcp relay information trusted	1414
ip dhcp relay source-interface	1415
ip dhcp relay source-interface	1416
ip dhcp relay sub-option circuit-id format-type string	1417
ip dhcp relay sub-option type cisco	1418
ip dhcp relay subnet-broadcast	1419
ip dhcp smart-relay	1420
ip dhcp smart-relay global	1421
ip dhcp snooping	1422
ip dhcp snooping information option	1423
ip dhcp snooping ipsg-excluded vlan	1424

ip dhcp snooping trust	1425
ip dhcp snooping verify mac-address	1426
ip dhcp snooping vlan	1427
ip directed-broadcast	1428
ip dns source-interface	1429
ip domain-list	1430
ip domain-lookup	1431
ip domain-name	1432
ip eigrp	1433
ip eigrp	1434
ip extcommunity-list expanded	1435
ip extcommunity-list standard	1436
ip flow monitor	1437
ip flow monitor	1438
ip flow monitor	1439
ip flow monitor	1440
ip flow monitor	1441
ip flow monitor	1442
ip forward	1443
ip ftp source-interface	1444
ip host	1445
ip http source-interface	1446
ip icmp-errors source-interface	1447
ip igmp	1448
ip igmp	1449
ip igmp	1450
ip igmp allow-v3-asm	1451
ip igmp any-query-destination	1452
ip igmp bootup-delay	1453
ip igmp enforce-router-alert	1454
ip igmp event-history	1455
ip igmp event-history cli	1456
ip igmp event-history ha	1457
ip igmp event-history igmp-internal	1458

ip igmp event-history mtrace	1459
ip igmp event-history policy	1460
ip igmp event-history vrf	1461
ip igmp flush-routes	1462
ip igmp group-specific-strict	1463
ip igmp group-timeout	1464
ip igmp ha-stateful	1465
ip igmp immediate-leave	1466
ip igmp join-group	1467
ip igmp last-member-query-count	1468
ip igmp last-member-query-response-time	1469
ip igmp query-interval	1470
ip igmp query-max-response-time	1471
ip igmp report-link-local-groups	1472
ip igmp robustness-variable	1473
ip igmp snooping	1474
ip igmp snooping	1475
ip igmp snooping	1476
ip igmp snooping	1477
ip igmp snooping	1478
ip igmp snooping event-history igmp-snoop-internal	1479
ip igmp snooping event-history mfdm-sum	1480
ip igmp snooping event-history mfdm	1481
ip igmp snooping event-history rib	1482
ip igmp snooping event-history vlan-events	1483
ip igmp snooping event-history vlan	1484
ip igmp snooping event-history vpc	1485
ip igmp snooping explicit-tracking	1486
ip igmp snooping explicit-tracking	1487
ip igmp snooping fast-leave	1488
ip igmp snooping fast-leave	1489
ip igmp snooping group-timeout	1490
ip igmp snooping group-timeout	1491
ip igmp snooping last-member-query-count	1492

ip igmp snooping last-member-query-count	1493
ip igmp snooping last-member-query-interval	1494
ip igmp snooping last-member-query-interval	1495
ip igmp snooping link-local-groups-suppression	1496
ip igmp snooping link-local-groups-suppression	1497
ip igmp snooping link-local-groups-suppression	1498
ip igmp snooping max-gq-miss	1499
ip igmp snooping mrouter interface	1500
ip igmp snooping mrouter interface	1501
ip igmp snooping optimised-multicast-flood	1502
ip igmp snooping proxy general-queries	1503
ip igmp snooping proxy general-queries	1504
ip igmp snooping querier-timeout	1505
ip igmp snooping querier-timeout	1506
ip igmp snooping querier	1507
ip igmp snooping querier	1508
ip igmp snooping query-interval	1509
ip igmp snooping query-interval	1510
ip igmp snooping query-max-response-time	1511
ip igmp snooping query-max-response-time	1512
ip igmp snooping report-suppression	1513
ip igmp snooping report-suppression	1514
ip igmp snooping report-suppression	1515
ip igmp snooping robustness-variable	1516
ip igmp snooping robustness-variable	1517
ip igmp snooping self-mac-check	1518
ip igmp snooping startup-query-count	1519
ip igmp snooping startup-query-count	1520
ip igmp snooping startup-query-interval	1521
ip igmp snooping startup-query-interval	1522
ip igmp snooping static-group	1523
ip igmp snooping static-group	1524
ip igmp snooping v3-report-suppression	1525
ip igmp snooping v3-report-suppression	1526

ip igmp snooping v3-report-suppression	1527
ip igmp snooping version	1528
ip igmp snooping version	1529
ip igmp snooping vpc	1530
ip igmp snooping vpc	1531
ip igmp snooping vpc peer-link-exclude	1532
ip igmp snooping vpc peer-routes-download	1533
ip igmp spoof-check	1534
ip igmp ssm-translate	1535
ip igmp startup-query-count	1536
ip igmp startup-query-interval	1537
ip igmp state-limit	1538
ip igmp syslog-threshold	1539
ip igmp version	1540
ip load-sharing address	1541
ip load-sharing per-packet	1542
ip local-proxy-arp	1543
ip mroute	1544
ip msdp description	1545
ip msdp event-history cli	1546
ip msdp event-history events	1547
ip msdp event-history msdp-internal	1548
ip msdp event-history routes	1549
ip msdp event-history tcp	1550
ip msdp flush-routes	1551
ip msdp group-limit	1552
ip msdp keepalive	1553
ip msdp mesh-group	1554
ip msdp no-sa-data	1555
ip msdp originator-id	1556
ip msdp password	1557
ip msdp peer	1558
ip msdp reconnect-interval	1559
ip msdp redistribute	1560

ip msdp sa-interval	1561
ip msdp sa-limit	1562
ip msdp sa-policy	1563
ip msdp sa-policy	1564
ip msdp shutdown	1565
ip name-server	1566
ip nat	1568
ip nat inside source	1569
ip nat outside source	1571
ip nat pool	1573
ip nat pool	1574
ip nat translation	1575
ip nat translation max-entries	1576
ip nat translation sampling-timeout	1577
ip ospf advertise-subnet	1578
ip ospf authentication-key	1579
ip ospf authentication	1580
ip ospf authentication key-chain	1581
ip ospf bfd	1582
ip ospf cost	1583
ip ospf dead-interval	1584
ip ospf flood-bw-percentage	1585
ip ospf hello-interval	1586
ip ospf message-digest-key	1587
ip ospf mtu-ignore	1588
ip ospf network	1589
ip ospf network point-to-point	1590
ip ospf passive-interface	1591
ip ospf priority	1592
ip ospf retransmit-interval	1593
ip ospf shutdown	1594
ip ospf transmit-delay	1595
ip pim	1596
ip pim	1597



ip pim	1598
ip pim	1599
ip pim	1600
ip pim	1601
ip pim anycast-rp	1602
ip pim assert-rate-limit	1603
ip pim auto-enable	1604
ip pim auto-rp	1605
ip pim auto-rp mapping-agent-policy	1606
ip pim auto-rp rp-candidate-policy	1607
ip pim bfd-instance	1608
ip pim bfd	1609
ip pim bidir-rp-limit	1610
ip pim border	1611
ip pim bsr	1612
ip pim bsr bsr-policy	1613
ip pim bsr rp-candidate-policy	1614
ip pim df-offer-burst-interval	1615
ip pim dr-delay	1616
ip pim dr-delay	1617
ip pim dr-priority	1618
ip pim event-history assert-receive	1619
ip pim event-history bidir	1620
ip pim event-history cli	1621
ip pim event-history hello	1622
ip pim event-history join-prune-summary	1623
ip pim event-history join-prune	1624
ip pim event-history null-register	1625
ip pim event-history packet	1626
ip pim event-history pim-internal	1627
ip pim event-history rp	1628
ip pim event-history vpc	1629
ip pim event-history vrf	1630
ip pim flush-routes	1631

ip pim hello-authentication ah-md5	1632
ip pim hello-interval	1633
ip pim jp-delay	1634
ip pim jp-interval	1635
ip pim jp-policy	1636
ip pim log-neighbor-changes	1637
ip pim mtu	1638
ip pim mtu	1639
ip pim neighbor-policy	1640
ip pim null-reg-delay	1641
ip pim null-reg-routes	1642
ip pim pre-build-spt	1643
ip pim register-policy	1644
ip pim register-rate-limit	1645
ip pim register-replicate	1646
ip pim register-source	1647
ip pim register-until-stop	1648
ip pim rp-address	1649
ip pim sparse-mode	1650
ip pim ssm	1651
ip pim state-limit	1652
ip ping source-interface	1653
ip policy match router-address	1654
ip policy route-map	1655
ip port-unreachable	1656
ip port access-group	1657
ip prefix-list	1658
ip prefix-list	1659
ip prefix-list	1660
ip proxy-arp	1661
ip radius source-interface	1662
ip redirects	1663
ip repopulate internal context array	1664
ip rip authentication key-chain	1665

ip rip authentication mode	1666
ip rip summary-address	1667
ip route	1668
ip route static bfd	1669
ip router isis	1670
ip router ospf	1671
ip router ospf	1672
ip routing event-history	1673
ip sla	1674
ip sla group schedule	1675
ip sla logging traps	1677
ip sla reaction-configuration	1678
ip sla reaction-trigger	1679
ip sla reset	1680
ip sla responder	1681
ip sla restart	1682
ip sla schedule	1683
ip source-route	1685
ip source	1686
ip source binding	1687
ip ssh source-interface	1688
ip sticky-arp	1689
ip summary-address eigrp	1690
ip tacacs source-interface	1691
ip tcp path-mtu-discovery	1692
ip tcp synwait-time	1693
ip telnet source-interface	1694
ip tftp source-interface	1695
ip traceroute source-interface	1696
ip unnumbered	1697
ip unreachable	1698
ip verify source dhcp-snooping-vlan	1699
ip verify unicast source reachable-via	1700
ipv6	1701

ipv6	1702
ipv6	1703
ipv6	1704
ipv6	1705
ipv6	1706
ipv6	1707
ipv6	1708
ipv6 access-class	1709
ipv6 access-list	1710
ipv6 access-list match-local-traffic	1711
ipv6 address	1712
ipv6 address	1713
ipv6 adjacency	1714
ipv6 adjacency	1715
ipv6 adjacency	1716
ipv6 adjacency l2fm-reg	1717
ipv6 adjacency route distance	1718
ipv6 amt gateway	1719
ipv6 amt gateway send-discovery	1720
ipv6 amt relay	1721
ipv6 cache disable	1722
ipv6 dad	1723
ipv6 dhcp relay	1724
ipv6 dhcp relay address	1725
ipv6 dhcp relay address	1726
ipv6 dhcp relay option type cisco	1727
ipv6 dhcp relay option vpn	1728
ipv6 dhcp relay source-interface	1729
ipv6 dhcp relay source-interface	1730
ipv6 flood unknown ucast	1731
ipv6 flow monitor	1732
ipv6 flow monitor	1733
ipv6 flow monitor	1734
ipv6 flow monitor	1735

ipv6 flow monitor	1736
ipv6 flow monitor	1737
ipv6 forward	1738
ipv6 host	1739
ipv6 icmp vip	1740
ipv6 nd cache limit	1741
ipv6 nd dad attempts	1742
ipv6 nd hop-limit	1743
ipv6 nd limit-incomplete-adjacency	1744
ipv6 nd limit_threshold_am_queue	1745
ipv6 nd mac-extract	1746
ipv6 nd managed-config-flag	1747
ipv6 nd mtu	1748
ipv6 nd ns-interval	1749
ipv6 nd off-list timeout	1750
ipv6 nd other-config-flag	1751
ipv6 nd prefix	1752
ipv6 nd prefix default	1753
ipv6 nd process adjacency statistics	1754
ipv6 nd ra-interval	1755
ipv6 nd ra-lifetime	1756
ipv6 nd ra dns search-list	1757
ipv6 nd ra dns search-list suppress	1758
ipv6 nd ra dns server	1759
ipv6 nd ra dns server suppress	1760
ipv6 nd reachable-time	1761
ipv6 nd retrans-timer	1762
ipv6 nd solicit-na	1763
ipv6 nd suppress-ra	1764
ipv6 nd synchronize	1765
ipv6 policy route-map	1766
ipv6 port traffic-filter	1767
ipv6 prefix-list	1768
ipv6 prefix-list	1769

ipv6 prefix-list	1770
ipv6 queue-packets-limit	1771
ipv6 queue-packets	1772
ipv6 repopulate internal context array	1773
ipv6 route	1774
ipv6 route static bfd	1775
ipv6 router isis	1776
ipv6 router ospfv3	1777
ipv6 router ospfv3	1778
ipv6 routing event-history	1779
ipv6 routing multicast software-replication	1780
ipv6 source-route	1781
ipv6 switch-packets	1782
ipv6 traffic-filter	1783
ipv6 verify unicast source reachable-via	1784
ipv6 vip	1785
is-type	1786
ishow cli find nodes	1787
ishow cli modes	1788
ishow cli nodes	1789
ishow cli paths	1790
ishow cli tags	1791
ishow core	1792
isis authentication-check	1793
isis authentication-check level-1	1794
isis authentication-check level-2	1795
isis authentication-type	1796
isis authentication-type	1797
isis authentication key-chain	1798
isis authentication key-chain	1799
isis bfd	1800
isis circuit-type	1801
isis csnp-interval	1802
isis event-history adjacency	1803

isis event-history cli	1804
isis event-history csnp	1805
isis event-history dis	1806
isis event-history events	1807
isis event-history graceful	1808
isis event-history ha	1809
isis event-history iih	1810
isis event-history lsp-flood	1811
isis event-history lsp-gen	1812
isis event-history mtr	1813
isis event-history psnp	1814
isis event-history redist	1815
isis event-history spf-leaf	1816
isis event-history spf-tree	1817
isis event-history tlv	1818
isis event-history urib	1819
isis hello-interval	1820
isis hello-interval	1821
isis hello-multiplier	1822
isis hello-multiplier	1823
isis hello-padding	1824
isis hello-padding always	1825
isis ipv6 bfd	1826
isis ipv6 metric	1827
isis lsp-interval	1828
isis mesh-group	1829
isis metric	1830
isis network point-to-point	1831
isis passive-interface	1832
isis priority	1833
isis retransmit-interval	1834
isis retransmit-throttle-interval	1835
isis shutdown	1836
isolate	1837

isolate 1838  
 isolate 1839  
 isolate 1840  
 isolate 1841  
 isolate 1842  
 itd 1843  
 itd device-group 1844  
 itd statistics 1845

---

**CHAPTER 11**
**J Commands 1847**

job name 1848  
 json-pretty 1849  
 json 1850

---

**CHAPTER 12**
**K Commands 1851**

key-string 1852  
 key-string 7 1853  
 key 1854  
 key chain 1855  
 key config-key 1856  
 kill-everyone 1857  
 kill background 1858

---

**CHAPTER 13**
**L Commands 1859**

l2rib dup-host-mac-detection 1862  
 l2rib dup-host-mac-recovery 1863  
 l2rib event-history 1864  
 label allocate global 1865  
 lacp fast-select-hot-standby 1866  
 lacp port-priority 1867  
 lacp rapid-transition 1868  
 lacp rate 1869  
 lacp rate 1870  
 lacp system-priority 1871



last	1872
layer2-switched flow monitor	1873
layer3 peer	1874
ldap-search-map	1875
ldap-search-map	1876
ldap-server deadtime	1877
ldap-server host	1878
ldap-server port	1880
ldap-server timeout	1881
ldap search-map	1882
license expiry check_interval	1883
license grace-period	1884
license grace-period days	1885
license grace-period seconds	1886
license grace period	1887
license reserve count	1888
limit-resource m4route-mem	1889
limit-resource m6route-mem	1890
limit-resource module-type	1891
limit-resource monitor-session-erspan-dst minimum	1892
limit-resource monitor-session-inband-src minimum	1893
limit-resource monitor-session minimum	1894
limit-resource port-channel minimum	1895
limit-resource u4route-mem	1896
limit-resource u6route-mem	1897
limit-resource vlan minimum	1898
limit-resource vrf minimum	1899
line console	1900
line console	1901
line vty	1902
line vty	1903
link-management timers	1904
link debounce	1905
lisp-rig	1906

list	1907
list	1908
listobject-boolean	1909
listobject-weight	1910
listobject	1911
lldp	1912
lldp eee	1913
lldp receive	1914
lldp tlv-select eee	1915
lldp tlv-select management-address	1916
lldp tlv-set management-address	1917
lldp tlv-set management-address	1918
lldp tlv-set vlan	1919
lldp transmit	1920
load-balance	1921
load-balancing	1922
load-interval	1923
load-interval	1924
load-interval counter	1925
load	1926
load	1927
load	1928
local-as	1929
local-as	1930
locator-led	1931
lockdown	1932
log-adjacency-changes	1933
log-adjacency-changes	1934
log-adjacency-changes	1935
log-adjacency-changes	1936
log-adjacency-changes	1937
log-event-type	1938
log-neighbor-changes	1939
log-neighbor-changes	1940

log-neighbor-warnings	1941
logging	1942
logging	1943
logging abort	1944
logging clear_console	1945
logging distribute	1946
logging drop threshold	1947
logging event	1948
logging event port link-status	1949
logging event port link-status	1950
logging event port link-status	1951
logging event port link-status default	1952
logging event port trunk-status	1953
logging event port trunk-status	1954
logging event port trunk-status default	1955
logging flush	1956
logging invalid-username	1957
logging level	1958
logging level ethpm	1959
logging max_messages	1960
logging message interface type ethernet	1961
logging reconcile	1962
logging source-interface	1963
logging timestamp	1964
login block-for	1965
login block-for	1966
login quiet-mode	1967
login quiet-mode access-class	1968
logit	1969
logout-warning	1970
low-memory exempt	1971
lshow	1972
lshow	1973
lsp-gen-interval	1974

lsp-mtu 1975  
lsp-mtu 1976  
lsp attributes 1977

---

**CHAPTER 14****M Commands 1979**

mac-address 1982  
mac-address 1983  
mac-address 1984  
mac-address 1985  
mac-address ipv6-extract 1986  
mac-list 1987  
mac access-list 1988  
mac address 1989  
mac address inherit 1990  
mac advert interval 1991  
mac packet-classify 1992  
mac port access-group 1993  
management 1994  
map-notify-group 1995  
map-server 1996  
match-address 1997  
match 1998  
match 2002  
match 2003  
match 2004  
match access-group name 2006  
match as-number 2007  
match as-number as-path-list 2008  
match as-path 2009  
match class-map 2010  
match community 2011  
match cos 2012  
match cos 2013  
match datalink 2014

match dscp	2015
match dscp	2016
match exception	2017
match extcommunity	2018
match interface	2019
match ip	2020
match ip address	2021
match ip address prefix-list	2022
match ip multicast	2023
match ip next-hop prefix-list	2024
match ip route-source prefix-list	2025
match ipv4	2026
match ipv6	2027
match ipv6 address	2028
match ipv6 address prefix-list	2029
match ipv6 multicast	2030
match ipv6 next-hop prefix-list	2031
match ipv6 route-source prefix-list	2032
match metric	2033
match protocol	2034
match protocol	2035
match qos-group	2036
match qos-group	2037
match qos-group2 (queuing)	2038
match qos-group2 (uf)	2039
match redirect	2040
match route-type	2041
match source-protocol	2042
match tag	2043
match transport	2044
max-lsa	2045
max-lsa	2046
max-lsp-lifetime	2047
max-lsp-lifetime	2048

max-metric router-lsa	2049
max-metric router-lsa	2050
max-ports	2051
max-ports	2052
maxas-limit	2053
maximum-paths	2054
maximum-paths (router-ospf3-af-ipv6)	2055
maximum-paths (router-bgp-af)	2056
maximum-paths (router-eigrp-af-common)	2057
maximum-paths (vrf)	2058
maximum-paths (router-isis-af-ipv6)	2059
maximum-paths eibgp	2060
maximum-peers	2061
maximum-prefix	2062
maximum-prefix (router-eigrp)	2063
maximum-prefix	2064
maximum routes	2065
mcast-group	2066
mdix auto	2067
medium	2068
medium	2069
medium broadcast	2070
medium p2p	2071
member vni	2072
member vni	2073
member vni	2074
merge config	2075
message-digest-key	2076
message-digest-key (router-ospf-slink)	2077
metric-style	2078
metric direct 0	2079
metric maximum-hops	2080
metric rib-scale	2081
metric version 64bit	2082

metric weights	2083
mgmt-policy	2084
mkdir	2085
mode	2086
mode	2087
mode	2088
mode openflow	2089
mode tap-aggregation	2090
monitor erspan granularity	2091
monitor erspan origin ip-address	2092
monitor erspan switch-id	2093
move	2094
mping	2095
mpls traffic-eng tunnels	2096
mst	2097
mst	2098
mtu	2099
mtu1	2100
mtu	2101
mtu	2102
mtu	2103
multi-topology	2104

---

**CHAPTER 15**
**N Commands 2105**

name-lookup	2107
name-lookup	2108
name	2109
name (hsrp_ipv6)	2110
name (glbp)	2111
nat destination	2112
negotiate auto	2113
neighbor-down fib-accelerate	2114
neighbor	2115
neighbor (router-bgp-vrf)	2116

neighbor (router-bgp) 2117  
neighbor (router-bgp-vrf) 2118  
neighbor (router-eigrp-af-common) 2119  
neighbor (ldp) 2120  
net 2121  
net 2122  
network 2123  
network (router-bgp-vrf-af-ipv4) 2124  
network (router-bgp-vrf-af-ipv6) 2125  
network (router-eigrp-af-ipv4) 2126  
network (vrf) 2127  
next-hop-self 2128  
next-hop-self (router-bgp-neighbor-af-ipv4-mdt) 2129  
next-hop-third-party 2130  
next-hop 2131  
next-hop out-label 2132  
nexthop route-map 2133  
nexthop trigger-delay critical 2134  
no-more 2135  
no 2136  
no (router-bgp-prefixneighbor) 2137  
no (router-bgp-prefixneighbor) 2138  
no address-family ipv6 mvpn 2139  
no ip address 2140  
no ip address 2141  
no ipv6 address use-link-local-only 2142  
no ipv6 link-local 2143  
no ipv6 neighbor 2144  
no snmp-server enable traps ospf 2145  
no snmp-server enable traps ospfv3 rate-limit 2146  
no system default switchport 2147  
no system default switchport shutdown 2148  
node 2149  
nsf await-redisproto-convergence 2150



ntp access-group	2151
ntp authenticate	2152
ntp authentication-key	2153
ntp drop-aged-packet	2154
ntp logging	2155
ntp master	2156
ntp peer	2157
ntp rts-update	2158
ntp server	2159
ntp source-interface	2160
ntp source	2161
ntp sync-retry	2162
ntp trusted-key	2163
nv overlay evpn	2164
nve interface	2165
nve interface	2166
nxapi	2167
nxapi certificate	2168
nxapi use-vrf	2169

---

**CHAPTER 16****O Commands 2171**

obfl logging uuid	2173
object-group ip address	2174
object-group ip port	2175
object-group ipv6 address	2176
offset-list	2177
onep	2178
onep applications	2179
onep install	2180
onep stop	2181
onep uninstall	2182
open-fsm	2183
operation-packet-priority	2184
option exporter-stats timeout	2185

option interface-table timeout	2186
option sampler-table timeout	2187
orib event-history	2188
orib orib_api_init	2189
ospfv3 bfd	2190
ospfv3 cost	2191
ospfv3 dead-interval	2192
ospfv3 flood-bw-percentage	2193
ospfv3 hello-interval	2194
ospfv3 instance	2195
ospfv3 mtu-ignore	2196
ospfv3 network	2197
ospfv3 network point-to-point	2198
ospfv3 passive-interface	2199
ospfv3 priority	2200
ospfv3 retransmit-interval	2201
ospfv3 shutdown	2202
ospfv3 transmit-delay	2203
overbudgetshut	2204
overbudgetsyslog	2205
overlay-encapsulation	2206
overlay-encapsulation (if-nve)	2207
overload rip	2208
owner	2209

---

**CHAPTER 17**
**P Commands 2211**

param-list	2215
parity	2216
parity	2217
passive-interface default	2218
passive-interface default (router-ospf3)	2219
passive-interface default (router-eigrp-vrf-common)	2220
passive-interface default (router-isis-vrf-common)	2221
password	2222

password (passwd)	2223
password (ldp)	2224
password prompt username	2225
password secure-mode	2226
password strength-check	2227
path-option	2228
path-selection metric	2229
path-selection metric (if-te)	2230
path-selection overload allow	2231
pause	2232
pause (pause-threshold)	2233
pause (resume-threshold)	2234
peer-gateway	2235
peer-ip	2236
peer-keepalive destination	2237
peer-switch	2239
peer ip	2240
peer vdc	2241
perf	2242
periodic-inventory notification	2243
periodic-inventory notification	2244
permit interface	2245
permit vlan	2246
permit vrf	2247
permit vsan	2248
phone-contact	2249
pktmgr cache disable	2250
platform	2251
platform access-list fp_dnl	2252
platform forwarding layer-2 fl exclude supervisor	2253
platform access-list update	2254
platform qos	2255
platform qos	2256
platform qos eq	2257

platform qos	2258
platform rate-limiter	2259
platform ip verify	2261
platform ipv6 verify	2263
platform forwarding interface statistics mode	2264
platform fabricpath mac-learning module	2265
police	2266
police	2268
policy-map	2270
policy-map type control-plane	2271
policy-map type network-qos	2272
policy-map type psp	2273
policy-map type queuing	2274
policy	2275
pop	2276
port-channel limit	2277
port-channel load-balance	2278
port-channel load-balance1 ethernet	2279
port-channel load-balance2 resilient	2280
port-channel load-balance ethernet	2281
port-channel load-balance hash-modulo-f2	2282
port-channel load-balance hash enable	2283
port-channel load-balance internal	2284
port-profile	2285
port-profile default max-ports	2286
port-profile default max-ports	2287
port-profile dump	2288
port-profile no-redirection	2289
port-security stop learning	2290
port	2291
port control	2292
power efficient-ethernet auto	2293
power efficient-ethernet sleep threshold aggressive	2294
power redundancy-mode combined	2295

power redundancy-mode combined force	2296
power redundancy-mode insrc-redundant	2297
power redundancy-mode ps-redundant	2298
pps	2299
pps	2300
precision	2301
preempt	2302
preempt	2303
preempt	2304
preempt delay	2305
preempt delay minimum	2306
priority-flow-control mode	2307
priority	2308
priority2	2309
priority	2310
priority	2311
priority	2312
priority	2313
priority	2314
priority	2315
priority	2316
private-vlan	2317
private-vlan association	2318
private-vlan mapping	2319
private-vlan release resource	2320
private-vlan synchronize	2321
probe	2322
probe	2323
probe	2324
probe	2325
probe	2326
probe	2327
probe	2328
probe	2329

probe 2330  
promiscuous-mode 2331  
propagate-sgt 2332  
protection 2333  
protocol shutdown 2334  
protocol shutdown 2335  
ptp 2336  
ptp announce interval 2337  
ptp announce timeout 2338  
ptp delay-request minimum interval 2339  
ptp domain 2340  
ptp priority1 2341  
ptp priority2 2342  
ptp source 2343  
ptp sync interval 2344  
ptp vlan 2345  
publish-event sub-system 2346  
purge ip route 2347  
purge ipv6 route 2348  
push 2349  
pwd 2350  
python 2351  
python execute virtual-service 2352  
python instance 2353

---

**CHAPTER 18****Q Commands 2355**

qos copy policy-map type network-qos 2356  
qos copy policy-map type queuing 2357  
qos qos-policies statistics 2358  
qos shared-policer 2359  
qos statistics 2363  
queue-limit 2364  
queue-limit2 2365

## CHAPTER 19

**R Commands 2367**

- radius-server deadtime 2371
- radius-server directed-request 2372
- radius-server host 2373
- radius-server key 2375
- radius-server pss-clean 2376
- radius-server retransmit 2377
- radius-server timeout 2378
- random-detect 2379
- random-detect2 minimum-threshold2 2380
- random-detect 2381
- random-detect cos-based 2382
- rate-mode 2383
- reconnect-interval 2384
- record-route 2385
- record-route 2386
- record 2387
- record netflow-original 2388
- record netflow 2389
- record netflow 2390
- record netflow 2391
- record netflow protocol-port 2392
- redistribute 2393
- redistribute 2394
- redistribute 2395
- redistribute 2396
- redistribute 2397
- redistribute 2398
- redistribute 2399
- redistribute 2400
- redistribute 2401
- redistribute 2402
- redistribute 2403

redistribute	2404
redistribute filter route-map	2405
redistribute maximum-prefix	2406
redistribute maximum-prefix	2407
redistribute maximum-prefix	2408
redistribute maximum-prefix	2409
redistribute maximum-prefix	2410
reference-bandwidth	2411
register-database-mapping	2412
register-route-notifications	2413
reload	2414
reload ascii	2415
reload force	2416
reload kexec	2417
reload kexec	2418
reload restore	2419
reload vdc	2420
reload vdc	2421
remote-as	2422
remote	2423
remove-private-as	2424
remove-routes vni	2425
reoptimize events link-up	2426
replay-protection	2427
replication-server	2428
report	2429
report	2430
report	2431
report	2432
report	2433
report	2434
report	2435
request-data-size	2436
request-data-size	2437



request-data-size	2438
resequence	2439
reset	2440
reset	2441
reset	2442
reset	2443
reset	2444
reset	2445
reset	2446
restart amt	2447
restart bgp	2448
restart eigrp	2449
restart igmp	2450
restart isis	2451
restart l3vm	2452
restart lisp	2453
restart msdp	2454
restart orib	2455
restart ospf	2456
restart ospfv3	2457
restart otv-isis	2458
restart otv	2459
restart pim	2460
restart pim6	2461
restart rip	2462
restart rpm	2463
restart rsvp	2464
resync-database	2465
retain route-target	2466
retransmit-interval	2467
retransmit-interval	2468
retransmit-interval	2469
revision	2470
revocation-check	2471

rfc1583compatibility 2472  
rip shutdown 2473  
rmdir 2474  
rmon event 2475  
roaming-eid-prefix 2476  
role feature-group name 2477  
role name 2478  
role priority 2479  
rollback progress stats 2480  
rollback running-config 2481  
route-map 2482  
route-map 2483  
route-map 2484  
route-map 2485  
route-map 2486  
route-map 2487  
route-map 2488  
route-reflector-client 2489  
route-reflector-client 2490  
route-target both 2491  
route-target export 2492  
route-target import 2493  
route delete dampen interval 2494  
router-id 2495  
router-id 2496  
router-id 2497  
router-id 2498  
router-id 2499  
router bgp 2500  
router eigrp 2501  
router isis 2502  
router ospf 2503  
router ospfv3 2504  
router rip 2505

routing-context vrf	2506
routing ipv4 unicast nexthop-sorting	2507
routing ipv6 unicast nexthop-sorting	2508
rsa-keypair	2509
rtr	2510
rule	2511
rule	2512
run-script	2513
run-show-tech-script	2514
run2 guestshell	2515
run bash	2516

---

**CHAPTER 20**

<b>S Commands</b>	2517
sampler	2527
sap hash-algorithm HMAC-SHA-1	2528
sap modelist	2529
sap pmk	2530
save	2531
scale-factor	2532
scheduler aaa-authentication	2533
scheduler enable	2534
scheduler job name	2535
scheduler logfile size	2536
scheduler schedule name	2537
scheduler transport email	2538
scp	2539
scp	2540
scripting tel init	2541
scripting tel recursion-limit	2542
search	2543
section	2544
secure-handoff	2545
sed	2546
send-community	2547

send-community	2548
send-lifetime	2549
send	2551
send session	2552
server	2553
server	2554
server	2555
server protocol ldap	2556
server protocol radius group	2557
server protocol xmpp	2558
service-policy	2559
service-policy	2560
service-policy	2561
service-policy input	2562
service-policy type network-qos	2563
service-policy type psp	2564
service-policy type qos	2565
service-policy type queuing	2566
service-policy type queuing	2567
service-policy type queuing	2568
service dhcp	2569
service set	2570
service unsupported-transceiver	2571
service vlan-group	2572
session-limit	2573
session domain-lookup	2574
session key-required	2575
session max	2576
session max	2577
session protection	2578
set-attached-bit	2579
set-overload-bit	2580
set	2581
set (elamns/sel5)	2582

set (elamns/sel5)	2584
set (elamns/sel6)	2586
set (sel7)	2588
set (policy-map/class)	2589
set (plc/class)	2590
set (pmap/class)	2593
set (class)	2594
set	2595
set as-path	2597
set comm-list	2598
set community	2599
set cos	2600
set cos	2601
set dampening	2602
set distance	2603
set extcomm-list	2604
set extcommunity	2605
set extcommunity 4byteas-generic	2606
set extcommunity cost	2607
set extcommunity rt	2608
set extension-key	2609
set forwarding-address	2610
set inner ipv4	2611
set inner l2	2613
set inner l2 hg2	2615
set inner l4	2617
set interface	2618
set interval find-new-host	2619
set interval pending-task-polling	2620
set interval sync-full-info	2621
set ip address prefix-list	2622
set ip default next-hop verify-availability	2623
set ip next-hop	2624
set ip next-hop peer-address	2625

set ip next-hop unchanged	2626
set ip next-hop verify-availability	2627
set ip precedence	2628
set ipv6 address prefix-list	2629
set ipv6 default next-hop verify-availability	2630
set ipv6 next-hop	2631
set ipv6 next-hop peer-address	2632
set ipv6 next-hop unchanged	2633
set ipv6 next-hop verify-availability	2634
set ipv6 precedence	2635
set level	2636
set local-preference	2637
set metric-type	2638
set metric	2639
set mpls-exp-topmost cos table exp-cos-map	2640
set nssa-only	2641
set origin	2642
set origin egp	2643
set outer ipv4	2644
set outer l2	2646
set outer l2 hg2	2648
set outer l4	2650
set path-selection all advertise	2651
set pktmgr pds yield-threshold	2652
set pktrw	2653
set sideband	2659
set tag	2662
set weight	2663
setup	2664
sflow	2665
sflow	2666
sflow cpu-usage limit	2667
sflow data-source interface	2668
sflow data-source interface	2669

sflow extended switch	2670
shape	2671
shared-secret	2673
shutdown	2674
shutdown (expl-path)	2675
shutdown (if-mgmt-ether)	2676
shutdown	2677
shutdown force	2678
shutdown (if-nve)	2679
shutdown (if-loopback)	2680
shutdown	2681
shutdown	2682
shutdown (router-bgp)	2683
shutdown	2684
shutdown (vrf)	2685
shutdown (router-bgp-neighbor-sess)	2686
shutdown (router-ospf-af-common)	2687
shutdown (if-vlan-common)	2688
shutdown (vrf)	2689
shutdown (anycast)	2690
shutdown (router-rip-vrf)	2691
shutdown (if-any-tunnel)	2692
shutdown (ldp)	2693
shutdown (itd-inout)	2694
shutdown (vrrpv3)	2695
shutdown (vrrpv3)	2696
shutdown (vrrs)	2697
shutdown (cbts-member)	2698
shutdown (vrrp)	2699
shutdown (router-isis-vrf-common)	2700
shutdown force	2701
signalling advertise explicit-null	2702
signalling client batch-time	2703
signalling hello graceful-restart	2704

signalling hello graceful-restart refresh interval	2705
signalling hello graceful-restart refresh misses	2706
signalling hello graceful-restart send recovery-time	2707
signalling hello graceful-restart send restart-time	2708
signalling hello reroute	2709
signalling initial-retransmit-delay	2710
signalling patherr state-removal	2711
signalling rate-limit	2712
signalling refresh interval	2713
signalling refresh misses	2714
signalling refresh pace	2715
signalling refresh reduction	2716
signalling refresh reduction ack-delay	2717
signalling refresh reduction bundle-max-size	2718
signalling refresh reduction bundle-transmit-time	2719
signalling refresh reduction rapid-retransmit	2720
signing level	2721
site-id	2722
site-of-origin	2723
sleep	2724
sleep instance	2725
slot	2726
smtp-host	2727
snapshot create	2728
snapshot delete	2729
snapshot delete ALL	2730
snapshot section add	2731
snapshot section delete	2732
snmp-server aaa-user cache-timeout	2733
snmp-server community	2734
snmp-server community	2735
snmp-server contact	2736
snmp-server context	2737
snmp-server context	2738



snmp-server counter cache-enable	2739
snmp-server counter cache enable	2740
snmp-server counter cache timeout	2741
snmp-server enable traps	2742
snmp-server enable traps bgp	2743
snmp-server enable traps bgp cbgp2	2744
snmp-server enable traps bgp cbgp2 threshold prefix	2745
snmp-server enable traps bgp threshold prefix	2746
snmp-server enable traps eigrp	2747
snmp-server enable traps msdp	2748
snmp-server enable traps ospf	2749
snmp-server enable traps ospf	2750
snmp-server enable traps ospfv3	2751
snmp-server enable traps ospfv3	2752
snmp-server enable traps storm-control trap-rate	2753
snmp-server force-unload-feature	2754
snmp-server globalEnforcePriv	2755
snmp-server host	2756
snmp-server host	2757
snmp-server host	2758
snmp-server host	2759
snmp-server host	2760
snmp-server load-cond-feature	2761
snmp-server load-mib	2762
snmp-server location	2763
snmp-server mib community-map	2764
snmp-server protocol enable	2765
snmp-server source-interface	2766
snmp-server system-shutdown	2767
snmp-server tcp-session	2768
snmp-server user	2769
snmp-trap	2770
snmp ifmib ifalias long	2771
snmp trap link-status	2772

snmp trap link-status	2773
snmp trap link-status	2774
snmp trap link-status	2775
snmp trap link-status	2776
snmp trap link-status	2777
sockets local-port-range	2778
soft-reconfiguration inbound	2779
soft-reconfiguration inbound	2780
soo	2781
sort	2782
source-group	2783
source-interface	2784
source-interface	2785
source-interface	2786
source	2787
source	2788
source	2789
source	2790
source copy-sys	2791
spanning-tree	2792
spanning-tree	2793
spanning-tree	2794
spanning-tree	2795
spanning-tree	2796
spanning-tree	2797
spanning-tree	2798
spanning-tree	2799
spanning-tree bpdupfilter	2800
spanning-tree bpduguard	2801
spanning-tree bridge-domain	2802
spanning-tree bridge assurance	2803
spanning-tree fcoe	2804
spanning-tree guard	2805
spanning-tree lc-issu	2806

spanning-tree lc-issu	2807
spanning-tree link-type	2808
spanning-tree loopguard default	2809
spanning-tree mode	2810
spanning-tree mst	2811
spanning-tree mst priority	2812
spanning-tree mst port-priority	2813
spanning-tree mst cost	2814
spanning-tree mst cost auto	2815
spanning-tree mst configuration	2816
spanning-tree mst configuration	2817
spanning-tree mst forward-time	2818
spanning-tree mst hello-time	2819
spanning-tree mst max-age	2820
spanning-tree mst max-hops	2821
spanning-tree mst pre-standard	2822
spanning-tree mst simulate pvst	2823
spanning-tree mst simulate pvst global	2824
spanning-tree pathcost method	2825
spanning-tree port type	2826
spanning-tree port type edge bpdufilter default	2827
spanning-tree port type edge bpduguard default	2828
spanning-tree port type edge default	2829
spanning-tree port type edge trunk	2830
spanning-tree port type network default	2831
spanning-tree portfast	2832
spanning-tree portfast bpdufilter default	2833
spanning-tree portfast bpduguard default	2834
spanning-tree portfast default	2835
spanning-tree pseudo-information	2836
spanning-tree vlan	2837
speed-group	2838
speed	2839
speed	2840

speed	2841
speed auto	2842
speed auto 100	2843
speed auto 100 1000	2844
spf-interval	2845
spf-interval	2846
spf mode incremental	2847
spf mode incremental	2848
sprom recover backplane	2849
ssh	2850
ssh6	2851
ssh key	2852
ssh login-attempts	2853
ssh server enable	2854
standby	2855
start	2856
start	2857
start	2858
start	2859
start	2860
start	2861
start	2862
state enabled	2863
stateful-ha	2864
statistics	2865
statistics	2866
statistics	2867
statistics per-entry	2868
statistics per-entry	2869
statistics per-entry	2870
status	2871
status	2872
status	2873
status	2874

status	2875
status	2876
status	2877
stopbits	2878
stopbits	2879
storm-control	2880
streetaddress	2881
stub	2882
summary-address	2883
summary-address	2884
summary-address	2885
summary-address	2886
suppress-arp KEYWORD no Negate a command or set its defaults KEYWORD suppress-arp Enable ARP suppression dynamic \$hmm	2887
suppress-fib-pending	2888
suppress-fib-pending	2889
suppress-inactive	2890
suppress-inactive	2891
switch-id	2892
switch-priority	2893
switch-scope controller l2-vxlan	2894
switchback	2895
switching-mode fabric-speed 40g	2896
switching-mode store-forward	2897
switchport	2898
switchport	2899
switchport autostate exclude	2900
switchport block	2901
switchport dot1q ethertype	2902
switchport dot1q ethertype	2903
switchport host	2904
switchport isolated	2905
switchport mode	2906
switchport mode	2907

switchport mode fabricpath	2908
switchport mode private-vlan	2909
switchport mode private-vlan trunk	2910
switchport port-security	2911
switchport port-security aging time	2912
switchport port-security aging type	2913
switchport port-security mac-address	2914
switchport port-security mac-address sticky	2915
switchport port-security maximum	2916
switchport port-security violation	2917
switchport private-vlan association trunk	2918
switchport private-vlan host-association	2919
switchport private-vlan mapping	2920
switchport private-vlan mapping trunk	2921
switchport private-vlan trunk allowed vlan	2922
switchport private-vlan trunk native vlan	2923
switchto vdc	2924
sync-peers destination	2925
sync-snmp-password	2926
sync-snmp-password	2927
sync-snmp-password	2928
system-mac	2929
system-priority	2930
system	2931
system cores	2932
system cores retain	2933
system default interface	2934
system default switchport	2935
system default switchport fabricpath	2936
system default switchport shutdown	2937
system fabric-mode full-rate	2938
system fast-reload stabilization-timer	2939
system hap-reset	2940
system health check bootflash	2941

system heartbeat	2942
system high-multicast-priority	2943
system inband queuing	2944
system inband queuing	2945
system interface shutdown	2946
system internal aclmgr global lock	2947
system internal aclmgr inject	2948
system internal aclmgr remove policies interface	2949
system internal aclmgr vcache	2950
system internal clis event-history	2951
system internal npacl event-history	2952
system internal policy-resync module	2953
system kernel-trace	2954
system kgdb	2955
system memory-thresholds minor	2956
system minlife	2957
system mode maintenance	2958
system mode maintenance on-reload reset-reason	2959
system mode maintenance timeout	2960
system module failure-action shutdown	2961
system no hap-reset	2962
system no heartbeat	2963
system no kgdb	2964
system no standby manual-boot	2965
system no statistics	2966
system no watchdog	2967
system no watchdog kgdb	2968
system nve ipmc global index-size	2969
system offline	2970
system pss shrink	2971
system qos	2972
system release mod-lock uuid	2973
system restart vdc	2974
system routing unknown-unicast-flood	2975

system standby manual-boot	2976
system standby reload vdc	2977
system startup-config init	2978
system startup-config kill config-update	2979
system startup-config unlock	2980
system statistics	2981
system switchover	2982
system switchover force	2983
system swover-timeout-reset	2984
system trace	2985
system urpf disable	2986
system vlan	2987
system watchdog	2988

## CHAPTER 21

**T Commands** 2989

table-map	2993
table-map router-ospf3-af-ipv6	2994
table-map (router-eigrp-af-common)	2995
table-map (vrf)	2996
table-map	2997
table-map	2998
table-map router-isis-af-ipv4	2999
table-map router-isis-af-ipv6	3000
tac-pac	3001
tac-pac	3002
tacacs enable	3003
tacacs-server deadtime	3004
tacacs-server directed-request	3005
tacacs-server host	3006
tacacs-server key	3007
tacacs-server timeout	3008
tag	3009
tag	3010
tail	3011



tail	3012
tar	3013
telsh	3014
telsh	3015
tcp-connect	3016
telnet	3017
telnet6	3018
telnet login-attempts	3019
telnet server enable	3020
template	3021
template data timeout	3022
template peer-policy	3023
template peer-session	3024
template peer	3025
terminal	3026
terminal	3027
terminal	3028
terminal	3029
terminal alias	3030
terminal ask-on-term	3031
terminal color	3032
terminal context management	3033
terminal deep-help	3034
terminal dont-ask	3035
terminal edit-mode vi	3036
terminal history no-exec-in-config	3037
terminal history no-exec-in-config	3038
terminal history no-exec-in-config	3039
terminal home	3040
terminal length	3041
terminal length	3042
terminal lock	3043
terminal log-all	3044
terminal no	3045

terminal output xml 3046  
terminal password 3047  
terminal prompt 3048  
terminal redirection-mode 3049  
terminal reset-role 3050  
terminal reset vlan-config-mutex 3051  
terminal session-timeout 3052  
terminal terminal-type 3053  
terminal time 3054  
terminal tree-update 3055  
terminal unlock 3056  
terminal width 3057  
terminal width 3058  
threshold-percent 3059  
threshold 3060  
time-range 3061  
timeout 3062  
timeout 3063  
timer 3064  
timers 3065  
timers 3066  
timers 3067  
timers 3068  
timers advertise 3069  
timers basic 3070  
timers bestpath-defer 3071  
timers bestpath-limit 3072  
timers bgp 3073  
timers lsa-arrival 3074  
timers lsa-arrival 3075  
timers lsa-group-pacing 3076  
timers lsa-group-pacing 3077  
timers prefix-peer-timeout 3078  
timers prefix-peer-wait 3079

timers throttle lsa	3080
timers throttle lsa	3081
timers throttle spf	3082
timers throttle spf	3083
tls	3084
topology holddown sigerr	3085
tos	3086
tr	3087
traceroute	3088
traceroute6	3089
track-adjacency-nexthop	3090
track	3091
track	3093
track	3094
track	3095
track	3096
traffic-share	3097
transmit-delay	3098
transmit-delay	3099
transmit-delay	3100
transport connection-mode passive	3101
transport email	3102
transport email mail-server	3103
transport http proxy enable	3104
transport http proxy server	3105
transport http use-vrf	3106
transport udp	3107
trigger init	3108
trigger init in-select 3 out-select 0 reverse	3109
trigger init	3110
trigger init	3111
trigger init	3112
trigger init	3113
trigger init	3114

trigger init	3115
trigger init	3116
trigger init	3117
trigger init	3118
trigger init	3119
trigger init	3120
trigger init	3121
trigger init	3122
trigger init	3123
trigger init	3124
trigger init	3125
trigger init	3126
trigger init	3127
trigger init	3128
trigger init	3129
trigger init	3130
trigger init	3131
trigger init	3132
trigger init	3133
trigger init	3134
trigger init	3135
trigger init	3136
trigger init	3137
trigger init	3138
trigger init	3139
trigger init	3140
trigger init	3141
trigger init	3142
trigger init	3143
trigger init	3144
trigger init	3145
trigger init	3146
trigger init	3147
trigger reset	3148

trustpoint server-identity 3149  
tunnel destination 3150  
tunnel mode 3151  
tunnel path-mtu-discovery 3152  
tunnel path-mtu-discovery 3153  
tunnel source 3154  
tunnel ttl 3155  
tunnel use-vrf 3156

---

**CHAPTER 22****U Commands 3157**

udf 3159  
udld aggressive 3160  
udld aggressive 3161  
udld aggressive 3162  
udld aggressive 3163  
udld continue-on-err 3164  
udld disable 3165  
udld disable 3166  
udld enable 3167  
udld enable 3168  
udld message-time 3169  
udld reset 3170  
udp-echo 3171  
udp-jitter 3172  
uniq 3174  
unsuppress-map 3175  
untagged cos 3176  
update-rib-always 3177  
update-source 3178  
update ip route 3179  
update ipv6 route 3180  
update license 3181  
use-vrf 3182  
use-vrf 3183

use-vrf	3184
user-jid	3185
user max-logins	3186
user max-logins	3187
username	3188
username	3189
username	3190
username	3191
username	3192
username	3193
username	3194
username	3195
username	3196
username	3197
userpassphrase	3198
userpassphrase	3199
userprofile	3200
userprofile	3201

---

**CHAPTER 23****V Commands 3203**

validate-xml	3205
variance	3206
vdp dot1q	3207
vdp dot1q default	3208
vdp vni	3209
vdp vni default	3210
verify-data	3211
verify	3212
verify profile	3213
verify verbose	3214
version	3215
version 5	3216
version 9	3217
virtual-service	3218

virtual-service	3219
virtual-service	3220
virtual-service connect name	3221
virtual-service move name	3222
virtual-service reset force	3223
virtual IPv6	3224
virtual ip	3225
vlan-group	3226
vlan	3227
vlan root priority	3228
vlan (anycast)	3229
vlan access-map	3230
vlan filter	3231
vmtracker connection	3232
vmtracker connection	3233
vmtracker enable	3234
vmtracker fabric auto-config	3235
vmtracker set device-id	3236
vn-segment	3237
vni	3238
vni default dynamic	3239
vpc	3240
vpc domain	3241
vpc orphan-port suspend	3242
vpc peer-link	3243
vpc role preempt	3244
vpc suspend	3245
vpc upgrade-done	3246
vpn	3247
vrf	3248
vrf (router-ospf3)	3249
vrf local-label prefix	3250
vrf local-label	3251
vrf (router-eigrp)	3252

vrf (router-bgp)	3253
vrf (dns)	3254
vrf (router-ospf)	3255
vrf (profile-map-global)	3256
vrf (itd)	3257
vrf (router-isis)	3258
vrf context	3259
vrf default	3260
vrf member	3261
vrf member (if-mgmt-ether)	3262
vrrp	3263
vrrp bfd	3264
vrrpv2	3265
vrrpv3	3266
vrrpv3	3267
vrrs leader	3268
vrrs pathway	3269

---

**CHAPTER 24****W Commands 3271**

watch	3272
wc	3273
weight (bgp)	3274
weight	3275
weighting	3276
where	3277
where detail	3278
which	3279
wide-metric-only	3280
wred-queue qos-group-map queue-only	3281
write erase	3282
write erase boot	3283
wrr unicast-bandwidth	3284

---

**CHAPTER 25****X Commands 3285**



xml	3286
xml server exec-mode	3287
xml server max-session	3288
xml server terminate session	3289
xml server timeout	3290
xml server validate	3291
xmlin	3292
xmlin (output)	3293





## Preface

---

This preface includes the following sections:

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

## Audience

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

## Documentation Conventions

Command descriptions use the following conventions:

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

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

Examples use the following conventions:

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

## Documentation Feedback

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

## Communications, Services, and Additional Information

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

### Cisco Bug Search Tool

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



## Notice

---

- [Notice, on page 2](#)

# Notice



---

**Warning**

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

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

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

---



## A Commands

---

- [aaa accounting default](#), on page 7
- [aaa accounting dot1x default group](#), on page 8
- [aaa accounting onep default group](#), on page 9
- [aaa authentication cts default group](#), on page 10
- [aaa authentication dot1x default group](#), on page 11
- [aaa authentication login](#), on page 12
- [aaa authentication login enable](#), on page 13
- [aaa authentication login ascii-authentication](#), on page 14
- [aaa authentication login console](#), on page 15
- [aaa authentication login default](#), on page 17
- [aaa authentication login error-enable](#), on page 19
- [aaa authentication login password-aging enable](#), on page 20
- [aaa authentication onep default group](#), on page 21
- [aaa authorization](#), on page 22
- [aaa authorization2 default2](#), on page 23
- [aaa authorization local](#), on page 24
- [aaa authorization cts default group](#), on page 25
- [aaa group server ldap](#), on page 26
- [aaa group server radius](#), on page 27
- [aaa group server tacacs](#), on page 28
- [aaa user default-role](#), on page 29
- [abort \(mst\)](#), on page 30
- [abort](#), on page 31
- [absolute-timeout](#), on page 32
- [accept-lifetime](#), on page 33
- [access-class \(line\)](#), on page 35
- [access-class \(tls\)](#), on page 36
- [access-list](#), on page 37
- [action](#), on page 38
- [action counter-name](#), on page 39
- [action \(event-manager-applet\)](#), on page 40
- [action cli](#), on page 41
- [action event-default](#), on page 42

- [action policy-default](#), on page 43
- [action syslog](#), on page 44
- [action snmp-trap](#), on page 45
- [action exceptionlog module](#) , on page 46
- [action forward redirect](#), on page 47
- [action reload](#), on page 48
- [action overbudgetshut](#), on page 49
- [action forceshut](#), on page 50
- [activate](#), on page 51
- [activity-timer](#), on page 52
- [additional-paths install backup](#), on page 53
- [additional-paths receive](#), on page 54
- [additional-paths selection route-map](#), on page 55
- [additional-paths send](#), on page 56
- [address-family ipv4](#), on page 57
- [address-family ipv4 \(router-bgp-vrf\)](#), on page 58
- [address-family ipv4 \(router-bgp-vrf-prefixneighbor\)](#), on page 59
- [address-family ipv4 mvpn](#), on page 60
- [address-family ipv4 unicast](#), on page 61
- [address-family ipv4 unicast \(vrf\)](#), on page 62
- [address-family ipv4 unicast \(router-eigrp-vrf-common\)](#), on page 63
- [address-family ipv4 unicast \(mpls\\_static\)](#), on page 64
- [address-family ipv4 unicast \(router-rip-vrf\)](#), on page 65
- [address-family ipv4 unicast \(router-isis-vrf-common\)](#), on page 66
- [address-family ipv6](#), on page 67
- [address-family ipv6](#), on page 68
- [address-family ipv6](#), on page 69
- [address-family ipv6 mvpn](#), on page 70
- [address-family ipv6 unicast](#), on page 71
- [address-family ipv6 unicast \(router-ospf3\)](#), on page 72
- [address-family ipv6 unicast \(vrf\)](#), on page 73
- [address-family ipv6 unicast \(vrf\)](#), on page 74
- [address-family ipv6 unicast \(router-eigrp-vrf-common\)](#), on page 75
- [address-family ipv6 unicast mpls\\_static](#), on page 76
- [address-family ipv6 unicast \(router-rip-vrf\)](#), on page 77
- [address-family ipv6 unicast \(router-isis-vrf-common\)](#), on page 78
- [address](#), on page 79
- [address \(ipnat-pool\)](#), on page 80
- [address secondary](#), on page 81
- [address primary](#), on page 82
- [address \(vrrpv3\)](#), on page 83
- [address \(if-eth-any/vrrs\)](#), on page 84
- [address \(vrrs\)](#), on page 85
- [address \(vrrp\)](#), on page 86
- [address \(vrrp\)](#), on page 87
- [adjacency-check](#), on page 88



- adjacency-resolve, on page 89
- advertise-labels, on page 90
- advertise-map, on page 91
- advertisement-interval, on page 92
- advertisement-interval, on page 93
- affinity, on page 94
- affinity, on page 95
- aggregate-address, on page 96
- aggregate-address (router-bgp-vrf-af-ipv6), on page 97
- allocate1 interface2, on page 98
- allocate2 fcoe-vlan-range, on page 99
- allocate3 shared interface3, on page 100
- allow delete boot-image, on page 101
- allow feature-set, on page 102
- allowas-in, on page 103
- allowas-in, on page 104
- allowed-locators, on page 105
- allowed-vlans, on page 106
- amt flush-routes, on page 107
- amt pseudo-interface, on page 108
- analysis module, on page 109
- anonymous-id, on page 110
- append-after, on page 111
- apply profile, on page 112
- area, on page 113
- area stub, on page 114
- area nssa, on page 115
- area nssa translate type7, on page 116
- area virtual-link (routerid), on page 117
- area virtual-link, on page 118
- area range, on page 119
- area default-cost, on page 120
- area filter-list route-map, on page 121
- area authentication, on page 122
- area default-cost, on page 123
- area stub, on page 124
- area nssa, on page 125
- area nssa translate type7, on page 126
- area virtual-link, on page 127
- area virtual-link, on page 128
- area filter-list route-map, on page 129
- as-format asdot, on page 130
- as-override, on page 131
- attach module, on page 132
- attach module node, on page 133
- attach module port, on page 134

- [auth-mechanism](#), on page 135
- [authentication-check](#), on page 136
- [authentication-check level-1](#), on page 137
- [authentication-check level-2](#), on page 138
- [authentication-key](#), on page 139
- [authentication-key](#), on page 140
- [authentication-key](#), on page 141
- [authentication-type](#), on page 142
- [authentication-type](#), on page 143
- [authentication](#), on page 144
- [authentication \(router-eigrp-af-common\)](#), on page 145
- [authentication key-chain](#), on page 146
- [authentication type](#), on page 147
- [authentication lifetime](#), on page 148
- [authentication window-size](#), on page 149
- [authentication challenge](#), on page 150
- [authentication \(router-ospf-slink\)](#), on page 151
- [authentication \(ldap\)](#), on page 152
- [authentication \(hsrp\\_ipv6\)](#), on page 153
- [authentication \(glbp\)](#), on page 154
- [authentication key-chain](#), on page 155
- [authentication key-chain \(router-ospf-slink\)](#), on page 156
- [authentication key-chain \(otv-isis-vrf-common\)](#), on page 157
- [authentication key-chain \(router-isis-vrf-common\)](#), on page 158
- [authentication text](#), on page 159
- [auto-bw](#), on page 160
- [auto-bw \(if-te\)](#), on page 161
- [auto-bw timers](#), on page 162
- [auto-cost reference-bandwidth](#), on page 163
- [auto-cost reference-bandwidth \(vrf\)](#), on page 164
- [auto-recovery](#), on page 165
- [auto-remap-replication-servers](#), on page 166
- [autonomous-system](#), on page 167
- [autoroute announce](#), on page 168
- [autoroute metric](#), on page 169
- [autostate](#), on page 170
- [autovlan enable](#), on page 171
- [awk](#), on page 172

## aaa accounting default

```
[no] aaa accounting default { group <s0> [ <s1> [ <s2> [ <s3> [ <s4> [ <s5> [ <s6> [ <s7> ] ] ] ] ] ] ] [ none ] | local [ none1 ] | none2 }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
accounting	Configure accounting methods
default	Configure default methods
group	Specify server groups to redirect the accounting logs
s0	Server group name
s1	(Optional) Server group name
s2	(Optional) Server group name
s3	(Optional) Server group name
s4	(Optional) Server group name
s5	(Optional) Server group name
s6	(Optional) Server group name
s7	(Optional) Server group name
none	(Optional) No accounting
none1	(Optional) No accounting
none2	No accounting
local	Use local accounting

### Command Mode

- /exec/configure

# aaa accounting dot1x default group

[no] aaa accounting dot1x default group <grp\_name> +

## Syntax Description

aaa	Configure aaa functions
accounting	Configure accounting methods
dot1x	accounting methods for dot1x
default	default aaa methods
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa accounting onep default group

[no] aaa accounting onep default group <grp\_name> +

## Syntax Description

aaa	Configure aaa functions
accounting	configure accounting methods
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa authentication cts default group

[no] aaa authentication cts default group <grp\_name> +

## Syntax Description

aaa	Configure aaa functions
authentication	Configure authentication methods
cts	authentication methods for cts
default	default aaa methods
group	server group
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa authentication dot1x default group

[no] aaa authentication dot1x default group <grp\_name> +

## Syntax Description

aaa	Configure aaa functions
authentication	Configure authentication methods
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa authentication login

[no] aaa authentication login { default | console } fallback error local

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
default	Configure default methods
console	Configure console methods
fallback	Configure fallback behavior
error	Fallback in case all AAA servers configured for remote authentication are unreachable (Authentication error)
local	Fallback to local authentication

## Command Mode

- /exec/configure



# aaa authentication login enable

[no] aaa authentication login { mschap | mschapv2 | chap } enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
mschap	MSCHAP authentication for login
mschapv2	MSCHAP V2 authentication for login
chap	CHAP authentication for login
enable	enable the authentication for login

## Command Mode

- /exec/configure

# aaa authentication login ascii-authentication

[no] aaa authentication login ascii-authentication

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
ascii-authentication	enable ascii authentication

## Command Mode

- /exec/configure

## aaa authentication login console

```
[no] aaa authentication login console { group <s0> [ { none | <s1> [ { none | <s2> [ { none | <s3> [ { none | <s4> [ { none | <s5> [ { none | <s6> [ { none | <s7> [ { none } ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local | none }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
console	Configure console methods
group	Specify server groups
<i>s0</i>	Server group name
none	(Optional) No authentication
<i>s1</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s2</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s3</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s4</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s5</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s6</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s7</i>	(Optional) Server group name
none	(Optional) No authentication
local	Use local username authentication
none	No authentication

**Command Mode**

- /exec/configure

## aaa authentication login default

```
[no] aaa authentication login default { group <s0> [ { none | <s1> [ { none | <s2> [ { none | <s3> [ { none | <s4> [ { none | <s5> [ { none | <s6> [ { none | <s7> [ { none } ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local | none }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
default	Configure default methods
group	Specify server groups
<i>s0</i>	Server group name
none	(Optional) No authentication
<i>s1</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s2</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s3</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s4</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s5</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s6</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s7</i>	(Optional) Server group name
none	(Optional) No authentication
local	Use local username authentication
none	No authentication

**Command Mode**

- /exec/configure

# aaa authentication login error-enable

[no] aaa authentication login error-enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
error-enable	enable display of error message on login failures

## Command Mode

- /exec/configure

# aaa authentication login password-aging enable

[no] aaa authentication login password-aging enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
password-aging	password-aging authentication for login
enable	enable password-aging notification

## Command Mode

- /exec/configure



# aaa authentication onep default group

[no] aaa authentication onep default group <grp\_name> +

## Syntax Description

aaa	Configure aaa functions
authentication	Configure authentication methods
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa authorization

```
[no] aaa authorization { commands | config-commands } console { { group <grp_name> + [ local | none ] }
| local | none }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization	Configure authorization methods
commands	Authorization for all exec-mode commands
config-commands	Authorization for config commands
console	Configure methods console
group	Specify server groups
<i>grp_name</i>	Server group name
local	(Optional) Use local RBACL based authorization
none	(Optional) No authorization

## Command Mode

- /exec/configure

## aaa authorization2 default2

```
[no] aaa authorization2 { commands | config-commands } default2 { { group <grp_name> + [ local2 | none ] } | local2 | none }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization2	Configure authorization methods
commands	Authorization for all exec-mode commands
config-commands	Authorization for config commands
default2	Configure default methods
group	Specify server groups
<i>grp_name</i>	Server group name
local2	(Optional) Use local RBACL based authorization
none	(Optional) No authorization

### Command Mode

- /exec/configure

## aaa authorization local

```
[no] aaa authorization { ssh-publickey | ssh-certificate } default { group <s0> [ { <s1> [ { <s2> [ { <s3> [ { <s4> [ { <s5> [ { <s6> [ { <s7> } ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization	Configure authorization methods
ssh-publickey	Configure ssh publickey
ssh-certificate	Configure ssh certificate
default	Configure default ssh methods
group	Specify server groups
s0	Server group name
s1	(Optional) Server group name
s2	(Optional) Server group name
s3	(Optional) Server group name
s4	(Optional) Server group name
s5	(Optional) Server group name
s6	(Optional) Server group name
s7	(Optional) Server group name
local	Use local username authentication

### Command Mode

- /exec/configure

## aaa authorization cts default group

[no] aaa authorization cts default group <grp\_name> +

### Syntax Description

aaa	Configure aaa functions
authorization	Configure authorization methods
cts	authorization methods for cts
default	default aaa methods
group	server group
<i>grp_name</i>	server group name

### Command Mode

- /exec/configure

## aaa group server ldap

[no] aaa group server ldap <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
ldap	LDAP server group name
s0	LDAP server group name

### Command Mode

- /exec/configure

## aaa group server radius

[no] aaa group server radius <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
radius	RADIUS server group name
s0	RADIUS server group name

### Command Mode

- /exec/configure

## aaa group server tacacs

[no] aaa group server tacacs <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
tacacs	TACACS+ server group name
s0	TACACS+ server group name

### Command Mode

- /exec/configure



# aaa user default-role

[no] aaa user default-role

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
user	Remotely authenticated user
default-role	Default role assigned by aaa-admin for remote authentication

## Command Mode

- /exec/configure

## abort (mst)

abort

### Syntax Description

abort	Exit region configuration mode, aborting changes
-------	--------------------------------------------------

### Command Mode

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

# abort

abort

## Syntax Description

abort	Abort the current configuration session
-------	-----------------------------------------

## Command Mode

- /exec/configure

# absolute-timeout

{ absolute-timeout <i0> | no absolute-timeout [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
absolute-timeout	Configure absolute timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

## Command Mode

- /exec/configure/line

# accept-lifetime

```
{ { accept-lifetime [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g
| month_h | month_i | month_j | month_k | month_l } <sday> <syyear> { duration <dsec> | infinite | <etime>
{ month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j |
month_k | month_l } <eday> <eyear> } } | { no accept-lifetime [ [ local ] <stime> { month_a | month_b |
month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l }
<sday> <syyear> { duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e
| month_f | month_g | month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } ] } }
```

## Syntax Description

no	Negate a command or set its defaults
accept-lifetime	Set accept lifetime of key
local	(Optional) Specify time in local timezone
<i>stime</i>	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	HH:MM:SS Time to end <0-23>:<0-59>:<0-59>
month_a	
month_b	
month_c	
month_d	
month_e	
month_f	
month_g	
month_h	
month_i	
month_j	
month_k	
month_l	
<i>sday</i>	Day of the month to start
<i>eday</i>	Day of the month to end
<i>syyear</i>	Year to start
<i>eyear</i>	Year to start
duration	Set key lifetime duration

<i>dsec</i>	Duration in seconds
infinite	Never Expires

**Command Mode**

- /exec/configure/keychain-key

## access-class (line)

[no] access-class <name> <inout>

### Syntax Description

no	(Optional) Negate a command or set its defaults
access-class	Specify IPv4 access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

### Command Mode

- /exec/configure/line

## access-class (tls)

```
{ access-class <aclname> } | { no access-class [ <aclname-ignore> ] }
```

### Syntax Description

no	Negate a command or set its defaults
access-class	Filter incoming connections based on ACL
<i>aclname</i>	ACL name
<i>aclname-ignore</i>	(Optional) ACL name

### Command Mode

- /exe/configure/onep/tls



# access-list

[no] access-list <acl-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	ITD access-list name
<i>acl-name</i>	ITD user ACL name

## Command Mode

- /exec/configure/itd

# action

```
action <label> publish-event sub-system <sub-system-id> type <event-type> { [ arg1 <data1> ] [ arg2 <data2> ] [ arg3 <data3> ] [ arg4 <data4> ] }
```

## Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
<i>sub-system-id</i>	Sub-system ID value
type	Event type value
<i>event-type</i>	Event type value
arg1	(Optional) User specified data to be passed when the event is published
<i>data1</i>	(Optional) User specified data value
arg2	(Optional) User specified data to be passed when the event is published
<i>data2</i>	(Optional) User specified data value
arg3	(Optional) User specified data to be passed when the event is published
<i>data3</i>	(Optional) User specified data value
arg4	(Optional) User specified data to be passed when the event is published
<i>data4</i>	(Optional) User specified data value

## Command Mode

- /exec/configure/event-manager-applet

## action counter-name

action <label> counter name <counter-name> value <counter-value> op <op-val>

### Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
counter	Specify the name of the counter
name	Specify the name of the counter
<i>counter-name</i>	Name of the counter
value	Specify the value to be applied to the counter
<i>counter-value</i>	Enter an integer value or a \$ prefixed name (parameter substitution)
op	Specify the operator to be applied
<i>op-val</i>	Enter the value of the operator

### Command Mode

- /exec/configure/event-manager-applet

## action (event-manager-applet)

[no] action <label>

### Syntax Description

no	Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9

### Command Mode

- /exec/configure/event-manager-applet

# action cli

action <label> cli [ local ] <vsh\_cmd>

## Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
cli	Configure a VSH CLI action
local	(Optional) Execute the action in the same card on which the event happens
<i>vsh_cmd</i>	Enter the vsh command

## Command Mode

- /exec/configure/event-manager-applet

## action event-default

action <label> event-default

### Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
event-default	Do default action for the event

### Command Mode

- /exec/configure/event-manager-applet

# action policy-default

action <label> policy-default

## Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
policy-default	Do default action(s) of the policy being overridden

## Command Mode

- /exec/configure/event-manager-applet

# action syslog

action <label> syslog [ priority { <prio> | <prio-str> } ] msg <msg-text>

## Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
syslog	Generate a syslog message
priority	(Optional) Priority of the syslog message
<i>prio</i>	(Optional) Enter the priority
<i>prio-str</i>	(Optional) Enter a valid \$ prefixed name, for parameter substitution
msg	Enter the message for the syslog
<i>msg-text</i>	The message text

## Command Mode

- /exec/configure/event-manager-applet



## action snmp-trap

action <label> snmp-trap [ intdata1 <integer-data1> ] [ intdata2 <integer-data2> ] [ strdata <string-data> ]

### Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
snmp-trap	Send
intdata1	(Optional) Enter
<i>integer-data1</i>	(Optional) Integer
intdata2	(Optional) Enter
<i>integer-data2</i>	(Optional) Integer
strdata	(Optional) Enter
<i>string-data</i>	(Optional) String

### Command Mode

- /exec/configure/event-manager-applet

## action exceptionlog module

[no] action <label> exceptionlog module <mod> syserr <syserr> devid <id> errtype <type> errcode <code> phylayer <phy> ports <list> harderror <hard> [ { desc <str> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
exceptionlog	Exception log
module	Enter a module number
<i>mod</i>	Enter module number (integer value) or a \$ prefixed parameter name
syserr	Enter syserr
<i>syserr</i>	Enter syserr code (hex value) or a \$ prefixed parameter name
devid	Enter device id
<i>id</i>	Enter device id (integer value) or a \$ prefixed parameter name
errtype	Enter error type
<i>type</i>	Error error type (integer value) or a \$ prefixed parameter name
errcode	Enter error code
<i>code</i>	Enter error code (hex value) or a \$ prefixed parameter name
phylayer	Enter phy layer
<i>phy</i>	Enter phy layer (integer value) or a \$ prefixed parameter name
ports	Enter failed ports
<i>list</i>	List of ports. Example: 1,3,7-15
harderror	Irrecoverable error?
<i>hard</i>	Error sub-category
desc	(Optional) Enter error description
<i>str</i>	(Optional) Error description

### Command Mode

- /exec/configure/event-manager-applet

## action forward redirect

```
[no] action { drop [ log ] | forward | redirect <intf> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
action	Specify the action clause
drop	Drop matched packets
log	(Optional) Log matched packets
forward	Forward matched packets
redirect	Redirect matched packets to the specified interface(s)
<i>intf</i>	Interface traffic is redirected to

### Command Mode

- /exec/configure/vacl

# action reload

[no] action <label> reload [ module { <module> | <mod-str> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
reload	Reload the system or a specific module
module	(Optional) Reload a specific module
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name

## Command Mode

- /exec/configure/event-manager-applet

# action overbudgetshut

[no] action <label> overbudgetshut [ module { <module> | <mod-str> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
overbudgetshut	Shut down the specified LCs due to power over budget
module	(Optional) Optional. Module to be force-shut(optional arg)
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name

## Command Mode

- /exec/configure/event-manager-applet

## action forceshut

```
[no] action <label2> forceshut [ { module { <module> | <mod-str> } | <s0> { <santa-cruz-range> | <santa-cruz-string> } } ] reset-reason <reset_reason_string>
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label2</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
forceshut	Force the entire switch to shut down
module	(Optional) Optional. Module to be forced to shut down(optional argument)
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name
<i>s0</i>	(Optional) Optional. Xbar to be forced to shut down(optional argument)
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
<i>santa-cruz-string</i>	(Optional) Enter the xbar number (integer value) or a \$ prefixed parameter name
reset-reason	Shut down (with reset-reason)
<i>reset_reason_string</i>	please enter reset_reason_string in quotes

### Command Mode

- /exec/configure/event-manager-applet

# activate

[no] activate

## Syntax Description

no	(Optional) Negate a command or set its defaults
activate	Activate configured virtual service

## Command Mode

- /exec/configure/virt-serv

# activity-timer

```
{ [ no ] activity-timer <seconds> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
activity-timer	Number of seconds where a dynamic-EID is considered active
<i>seconds</i>	Timeout value in seconds

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid



# additional-paths install backup

[no] additional-paths install backup

## Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
install	Install backup path
backup	Install backup path

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

# additional-paths receive

[no] additional-paths receive

## Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
receive	Additional paths Receive capability

## Command Mode

- /exec/configure/router-bgp/router-bgp-af
- /exec/configure/router-bgp/router-bgp-af-vpnv4
- /exec/configure/router-bgp/router-bgp-af-vpnv6
- /exec/configure/router-bgp/router-bgp-af-ipv6-label
- /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-af-ipv4-label

# additional-paths selection route-map

[no] additional-paths selection route-map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
selection	Additional paths selection
route-map	Route-map for additional paths selection
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af
- /exec/configure/router-bgp/router-bgp-af-vpnv4
- /exec/configure/router-bgp/router-bgp-af-vpnv6
- /exec/configure/router-bgp/router-bgp-af-ipv6-label
- /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-af-ipv4-label

# additional-paths send

[no] additional-paths send

## Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
send	Additional paths Send capability

## Command Mode

- /exec/configure/router-bgp/router-bgp-af
- /exec/configure/router-bgp/router-bgp-af-vpnv4
- /exec/configure/router-bgp/router-bgp-af-vpnv6
- /exec/configure/router-bgp/router-bgp-af-ipv6-label
- /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-af-ipv4-label

# address-family ipv4

[no] address-family ipv4 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

## Command Mode

- /exec/configure/router-bgp

## address-family ipv4 (router-bgp-vrf)

[no] address-family ipv4 { unicast | multicast }

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

### Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

## address-family ipv4 (router-bgp-vrf-prefixneighbor)

[ no | default ] address-family ipv4 { unicast | multicast }

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

### Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-neighbor
- /exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

# address-family ipv4 mvpn

[no] address-family ipv4 mvpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mvpn	Configure Multicast VPN

## Command Mode

- /exec/configure/router-bgp



# address-family ipv4 unicast

[no] address-family ipv4 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

## Command Mode

- /exec/configure/router-rip

## address-family ipv4 unicast (vrf)

[no] address-family ipv4 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure address family
ipv4	Configure IPv4 address family

### Command Mode

- /exec/configure/vrf

## address-family ipv4 unicast (router-eigrp-vrf-common)

[no] address-family ipv4 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

### Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common

## address-family ipv4 unicast (mpls\_static)

[no] { address-family ipv4 unicast }

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure Address Family and its parameters
ipv4	Configure IPv4 Address Family parameters
unicast	Unicast

### Command Mode

- /exec/configure/mpls\_static

## address-family ipv4 unicast (router-rip-vrf)

[no] address-family ipv4 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

### Command Mode

- /exec/configure/router-rip/router-rip-vrf

## address-family ipv4 unicast (router-isis-vrf-common)

[no] address-family ipv4 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# address-family ipv6

[no] address-family ipv6 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

## Command Mode

- /exec/configure/router-bgp

# address-family ipv6

[no] address-family ipv6 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

## Command Mode

- /exec/configure/router-bgp/router-bgp-vrf



# address-family ipv6

[ no | default ] address-family ipv6 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

## Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-neighbor
- /exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

# address-family ipv6 mvpn

[no] address-family ipv6 mvpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
mvpn	Configure Multicast VPN

## Command Mode

- /exec/configure/router-bgp

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

## Command Mode

- /exec/configure/router-rip

## address-family ipv6 unicast (router-ospf3)

[no] address-family ipv6 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure IPv6 unicast address-family

### Command Mode

- /exec/configure/router-ospf3

# address-family ipv6 unicast (vrf)

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure IPv6 unicast address-family

## Command Mode

- /exec/configure/router-ospf3/vrf

## address-family ipv6 unicast (vrf)

[no] address-family ipv6 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure address family
ipv6	Configure IPv6 address family

### Command Mode

- /exec/configure/vrf

## address-family ipv6 unicast (router-eigrp-vrf-common)

[no] address-family ipv6 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

### Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common

# address-family ipv6 unicast mpls\_static

[no] { address-family ipv6 unicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure Address Family and its parameters
ipv6	Configure IPv6 Address Family parameters
unicast	Unicast

## Command Mode

- /exec/configure/mpls\_static



## address-family ipv6 unicast (router-rip-vrf)

[no] address-family ipv6 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

### Command Mode

- /exec/configure/router-rip/router-rip-vrf

## address-family ipv6 unicast (router-isis-vrf-common)

[no] address-family ipv6 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# address

[no] address <ip\_addr> [ primary ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
primary	(Optional) Primary Address
<i>ip_addr</i>	IPv4 Address

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

## address (ipnat-pool)

[no] address <start-ip> <end-ip>

### Syntax Description

no	(Optional) Negate a command or set its defaults
address	Address range for the pool
<i>start-ip</i>	Start IP address
<i>end-ip</i>	End IP address

### Command Mode

- /exec/configure/ipnat-pool

# address secondary

[no] address <ip\_addr> secondary

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
secondary	Secondary Address
<i>ip_addr</i>	IPv4 Address

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# address primary

[no] address <ipv6\_addr> primary

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
primary	Primary Address

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

## address (vrrpv3)

[no] address <ipv6\_addr>

### Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address

### Command Mode

- /exec/configure/if-eth-any/vrrpv3

## address (if-eth-any/vrrs)

[no] address <ip\_addr>

### Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address configuration
<i>ip_addr</i>	IP Address

### Command Mode

- /exec/configure/if-eth-any/vrrs



# address (vrrs)

[no] address <ipv6\_addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address configuration

## Command Mode

- /exec/configure/if-eth-any/vrrs

## address (vrrp)

{ address <ip\_address> | no address [ <ip\_address> ] }

### Syntax Description

no	Negate a command or set its defaults
address	Add an IP address to the vr
<i>ip_address</i>	ip address

### Command Mode

- /exec/configure/if-eth-any/vrrp

# address (vrrp)

{ address <ip\_address> secondary | no address <ip\_address> secondary }

## Syntax Description

no	Negate a command or set its defaults
address	Add an IP address to the vr
<i>ip_address</i>	ip address
secondary	a virtual IP address without owner

## Command Mode

- /exec/configure/if-eth-any/vrrp

# adjacency-check

[no] adjacency-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
adjacency-check	Adjacency's protocol support consistency check

## Command Mode

- /exec/configure/router-isis/router-isis-af-common

# adjacency-resolve

[no] adjacency-resolve

## Syntax Description

no	(Optional) Negate a command or set its defaults
adjacency-resolve	Resolve L3->L2 address for ISIS adjacency

## Command Mode

- /exec/configure/router-isis

# advertise-labels

```
[no] advertise-labels [ vrf { <vrf-name> | <vrf-known-name> } ] [ [ for <pxf-list> [ to <peer-pxf-list> ] ] ] [ interface <intf> ] ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertise-labels	Label advertisements
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
for	(Optional) Prefix list specifying controls on destination prefixes
<i>pxf-list</i>	(Optional) Name of prefix list
to	(Optional) Prefix list specifying controls on LDP peers
<i>peer-pxf-list</i>	(Optional) Name of prefix list
interface	(Optional) Advertise /32 interface address
<i>intf</i>	(Optional)

## Command Mode

- /exec/configure/ldp

# advertise-map

```
{ [ no ] advertise-map <advrt-rmap-name> { exist-map | non-exist-map } <cond-rmap-name> } | default
advertise-map
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	Inherit values from a peer template
advertise-map	Specify route-map for conditional advertisement
exist-map	Condition route-map to advertise only when prefix in condition exists
non-exist-map	Condition route-map to advertise only when prefix in condition does not exist
<i>advrt-rmap-name</i>	Route-map name
<i>cond-rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

# advertisement-interval

[no] advertisement-interval <adv-sec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertisement-interval	Minimum interval between sending BGP routing updates
<i>adv-sec</i>	Time in seconds

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls



# advertisement-interval

```
{ advertisement-interval <interval_time> | no advertisement-interval [ <interval_time> ] }
```

## Syntax Description

no	Negate a command or set its defaults
advertisement-interval	Set the time interval between advertisement
<i>interval_time</i>	Time interval (in seconds) between advertisements

## Command Mode

- /exec/configure/if-eth-any/vrrp

# affinity

[no] affinity | affinity <hex\_value> [ mask <mask\_value> ]

## Syntax Description

no	Negate a command or set its defaults
affinity	Specify attribute flags for links comprising LSP
<i>hex_value</i>	affinity value
mask	(Optional) mask on desired link attributes
<i>mask_value</i>	(Optional) affinity mask value

## Command Mode

- /exec/configure/te/lsp-attr

# affinity

[no] affinity | affinity <value> [ mask <mask-value> ]

## Syntax Description

no	Negate a command or set its defaults
affinity	desired link attributes for links comprising tunnel
<i>value</i>	affinity value
mask	(Optional) mask on desired link attributes
<i>mask-value</i>	(Optional) affinity mask value

## Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

# aggregate-address

[no] aggregate-address { <ip-addr> <ip-mask> | <ip-prefix> } [ as-set | summary-only | suppress-map <suppress-rmap> | advertise-map <advertise-rmap> | attribute-map <attribute-rmap> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
aggregate-address	Configure BGP aggregate prefixes
<i>ip-addr</i>	Aggregate address
<i>ip-mask</i>	Aggregate mask
<i>ip-prefix</i>	Aggregate prefix
summary-only	(Optional) Don't advertise more specifics
as-set	(Optional) Generate AS-SET information
suppress-map	(Optional) Conditionally filter more specific routes
advertise-map	(Optional) Select attribute information from specific routes
attribute-map	(Optional) Set attribute information of aggregate
<i>advertise-rmap</i>	(Optional) Route-map name
<i>suppress-rmap</i>	(Optional) Route-map name
<i>attribute-rmap</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

## aggregate-address (router-bgp-vrf-af-ipv6)

[no] aggregate-address <ipv6-prefix> [ as-set | summary-only | suppress-map <suppress-rmap> | advertise-map <advertise-rmap> | attribute-map <attribute-rmap> ] +

### Syntax Description

no	(Optional) Negate a command or set its defaults
aggregate-address	Configure BGP aggregate IPv6 prefixes
as-set	(Optional) Generate AS-SET information
summary-only	(Optional) Don't advertise more specifics
suppress-map	(Optional) Conditionally filter more specific routes
advertise-map	(Optional) Select attribute information from specific routes
attribute-map	(Optional) Set attribute information of aggregate
<i>advertise-rmap</i>	(Optional) Route-map name
<i>suppress-rmap</i>	(Optional) Route-map name
<i>attribute-rmap</i>	(Optional) Route-map name

### Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

## allocate1 interface2

```
allocate1 interface2 { <interface-id> [ force ] | unallocated-interfaces }
```

### Syntax Description

allocate1	Assign interfaces to vdc
interface2	Assign interface range to vdc
<i>interface-id</i>	Assign interface range to vdc
force	(Optional) force
unallocated-interfaces	Best-effort trying to move all interfaces in the unallocated pool into this vdc

### Command Mode

- /exec/configure/vdc

## allocate2 fcoe-vlan-range

```
{ allocate2 fcoe-vlan-range [ <vlan_range> ] [ from vdc <vdc_names> ] } | { no allocate2 fcoe-vlan-range [ <vlan_range> | { from vdc <vdc_names> } ] }
```

### Syntax Description

no	Negate a command or set its defaults
allocate2	Assign interfaces to vdc
fcoe-vlan-range	vlan reserved for FCoE
<i>vlan_range</i>	(Optional) vlans reserved for FCoE
from	(Optional) which vdc will be sharing ports with the FCoE vdc
vdc	(Optional) which vdc will be sharing ports with the FCoE vdc
<i>vdc_names</i>	(Optional) which vdc will be sharing port with the FCoE vdc

### Command Mode

- /exec/configure/vdc

# allocate3 shared interface3

[no] allocate3 shared interface3 <interface-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
allocate3	Assign interfaces to vdc
interface3	Assign interface range to vdc
<i>sinterface-id</i>	Assign interface range to vdc
shared	Shared this port using the reserved FCoE vlans

## Command Mode

- /exec/configure/vdc



# allow delete boot-image

[no] allow delete boot-image [ retain ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
allow	allow kickstart or system image to be deleted
delete	allow delete or overwrite of image file
boot-image	image file
retain	(Optional) retain this command after reboot

## Command Mode

- /exec

# allow feature-set

[no] allow feature-set <fs>

## Syntax Description

no	(Optional) Negate a command or set its defaults
allow	Used to change permissions inside a vdc
feature-set	Change which feature-sets the user is able to enable inside the vdc
<i>fs</i>	installed feature-sets

## Command Mode

- /exec/configure/vdc

# allowas-in

[ no | default ] allowas-in [ <allowas-in-cnt> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
allowas-in	Accept as-path with my AS present in it
<i>allowas-in-cnt</i>	(Optional) Number of occurrences of AS number, default is 3

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6

# allowas-in

[ no | default ] allowas-in [ <allowas-in-cnt> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
allowas-in	Accept as-path with my AS present in it
<i>allowas-in-cnt</i>	(Optional) Number of occurrences of AS number, default is 3

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

# allowed-locators

```
{ [ no ] allowed-locators { <rloc> | <rloc6> } + }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
allowed-locators	List of locators from LISP site
<i>rloc</i>	IPv4 locator allowed in registered locator-set

## Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site

## allowed-vlans

allowed-vlans { <allow-vlans> | add <add-vlans> | except <except-vlans> | remove <remove-vlans> | all }

### Syntax Description

allowed-vlans	Set list of allowed vlans that can be used for interface configuration
<i>allow-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
add	add VLANs to the current list
<i>add-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
except	all VLANs except the following
<i>except-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
remove	remove VLANs from the current list
<i>remove-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
all	all VLANs

### Command Mode

- /exec/configure/vmt-conn

# amt flush-routes

[no] amt flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
amt	AMT global configuration commands
flush-routes	Remove routes when restarting AMT

## Command Mode

- /exec/configure /exec/configure/vrf

# amt pseudo-interface

```
{ { amt pseudo-interface <interface> } | { no amt pseudo-interface [ <interface> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
amt	AMT global configuration commands
pseudo-interface	Tunnel to relay for forwarding IGMP/MLD messages
<i>interface</i>	Interface name to be used for AMT pseudo interface

## Command Mode

- /exec/configure /exec/configure/vrf



# analysis module

[no] analysis module <module> management-port <mgmt-port> access-vlan <vlan-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
analysis	service module
module	service module
management-port	management port
access-vlan	access-vlan
<i>module</i>	Enter Module Number
<i>mgmt-port</i>	port number
<i>vlan-id</i>	vlan

## Command Mode

- /exec/configure

# anonymous-id

```
{ [ no ] anonymous-id <id> }
```

## Syntax Description

anonymous-id	anonymous identity associated with this profile
<i>id</i>	identity name

## Command Mode

- /exec/configure/dot1x-cred

# append-after

append-after <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> }

## Syntax Description

append-after	Append additional entry after specified index
<i>index</i>	Previous index number
next-address	Specify the next address in the path
loose	(Optional) Target address is loose
strict	(Optional) Target address is strict
exclude-address	Exclude an address from subsequent partial path segments
<i>ipaddr</i>	Enter IP address (A.B.C.D)

## Command Mode

- /exec/configure/te/expl-path

# apply profile

[no] apply profile { <all\_conf\_profile\_name> } [ include-profile <include-profile> ] [ { param-instance <plistinst> | include-instance <plistinst> } + ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
apply	Apply a config-profile
profile	Apply a config-profile
<i>all_conf_profile_name</i>	Enter the name of the profile
param-instance	(Optional) Enter the name of the param-instance
<i>plistinst</i>	(Optional) Enter the name of the instance
include-profile	(Optional) Enter the name of the include profile
<i>include-profile</i>	(Optional) Enter the name of the include profile
include-instance	(Optional) Enter the param-instance corresponding to the first included profile
<i>plistinst</i>	(Optional) Enter the name of the include instance

## Command Mode

- /exec/configure

# area

```
[no] area <area-id-ip> range { <ip-dest> <ip-mask> | <ip-prefix> } { [ not-advertise ] [ cost <conf-cost> ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
range	Configure an address range for an area
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
not-advertise	(Optional) Suppress advertising the specified range
cost	(Optional) Cost to use for range
<i>conf-cost</i>	(Optional) Cost value

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# area stub

[no] area <area-id-ip> stub [ no-summary ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
stub	Configure area as a stub
no-summary	(Optional) Prevent ABR from sending summary LSAs into stub area

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

## area nssa

[no] area <area-id-ip> nssa { [ no-summary ] [ no-redistribution ] [ default-information-originate [ route-map <policy-name> ] ] } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
no-summary	(Optional) Do not send summary LSAs into NSSA area
no-redistribution	(Optional) Do not send redistributed LSAs into NSSA area
default-information-originate	(Optional) Originate Type-7 default LSA into NSSA area
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

## area nssa translate type7

```
{ area <area-id-ip> nssa translate type7 { always [ supress-fa ] | never | supress-fa } } | { no area <area-id-ip>
nssa translate type7 [ always [ supress-fa ] | never | supress-fa ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
translate	Translate LSA
type7	From NSSA-external (Type 7) to AS-external (Type 5)
always	Always translate LSAs
never	Never translate LSAs
supress-fa	(Optional) Supress forwarding address in translated LSAs

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf



## area virtual-link (routerid)

[no] area <area-id-ip> virtual-link <routerid>

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

### Command Mode

- /exec/configure/router-ospf3

# area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

## Command Mode

- /exec/configure/router-ospf3/vrf

## area range

[no] area <area-id-ip> range <ipv6-prefix> { [ not-advertise ] [ cost <conf-cost> ] } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
range	Configure an address range for an area
not-advertise	(Optional) Suppress advertising the specified range
cost	(Optional) Cost to use for range
<i>conf-cost</i>	(Optional) Cost value

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## area default-cost

```
{ { area <area-id-ip> default-cost <cost> } | { no area <area-id-ip> default-cost [ <cost> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
default-cost	Specify default-cost for default inter-area-prefix LSA
<i>cost</i>	Cost value

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## area filter-list route-map

```
{ area <area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } { in | out } } | { no area
<area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } [ in | out ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
<i>policy-name</i>	Route-map name
<i>rtr_pol_name</i>	
in	Filter networks sent to this area
out	Filter networks sent from this area

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## area authentication

[no] area <area-id-ip> authentication [ message-digest ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
authentication	Enable authentication for the area
message-digest	(Optional) Use message-digest authentication

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## area default-cost

```
{ { area <area-id-ip> default-cost <cost> } | { no area <area-id-ip> default-cost [ <cost> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
default-cost	Specify default-cost for default summary LSA
<i>cost</i>	Cost value

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# area stub

[no] area <area-id-ip> stub [ no-summary ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
stub	Configure area as a stub
no-summary	(Optional) Prevent ABR from sending summary LSAs into stub area

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf



## area nssa

[no] area <area-id-ip> nssa { [ no-summary ] [ no-redistribution ] [ default-information-originate [ route-map <policy-name> ] ] } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
no-summary	(Optional) Do not send summary LSAs into NSSA area
no-redistribution	(Optional) Do not send redistributed LSAs into NSSA area
default-information-originate	(Optional) Originate Type-7 default LSA into NSSA area
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## area nssa translate type7

```
{ area <area-id-ip> nssa translate type7 { always [ supress-fa ] | never | supress-fa } } | { no area <area-id-ip>
nssa translate type7 [ always [ supress-fa ] | never | supress-fa ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
translate	Translate LSA
type7	From Type 7 to Type 5
always	Always translate LSAs
never	Never translate LSAs
supress-fa	(Optional) Supress forwarding address in translated LSAs

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

### Command Mode

- /exec/configure/router-ospf

# area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

## Command Mode

- /exec/configure/router-ospf/vrf

## area filter-list route-map

```
{ area <area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } { in | out } } | { no area
<area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } [ in | out ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
<i>policy-name</i>	Route-map name
<i>rtr_pol_name</i>	
in	Filter networks sent to this area
out	Filter networks sent from this area

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# as-format asdot

as-format asdot | no as-format

## Syntax Description

no	Negate a command or set its defaults
as-format	Configure the router's Autonomous system number (ASN) notation
asdot	Specifies the Autonomous system number (ASN) notation to asdot format

## Command Mode

- /exec/configure

# as-override

[ no | default ] as-override

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
as-override	Override matching AS-number while sending update

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6

# attach module

attach module <module>

## Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number

## Command Mode

- /exec



# attach module node

attach module <module> node <i0>

## Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number
node	Avanti node number on the linecard
<i>i0</i>	

## Command Mode

- /exec

# attach module port

```
attach module <module> port <i0>
```

## Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number
port	Port number on the linecard
<i>i0</i>	

## Command Mode

- /exec

# auth-mechanism

[no] auth-mechanism { plain }

## Syntax Description

no	(Optional) Negate a command or set its defaults
auth-mechanism	Set the authentication mechanism
plain	Set the authentication mechanism as plain(default)

## Command Mode

- /exec/configure/ldap

# authentication-check

[no] authentication-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# authentication-check level-1

[no] authentication-check level-1

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's
level-1	Specify authentication check for level-1 LSP, CSNP and PSNP

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## authentication-check level-2

[no] authentication-check level-2

### Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's
level-2	Specify authentication check for level-2 LSP, CSNP and PSNP

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# authentication-key

{ { authentication-key <key> } | { no authentication-key [ <key> ] } }

## Syntax Description

no	Negate a command or set its defaults
authentication-key	Configure the authentication key for the virtual-link
<i>key</i>	Authentication key

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

# authentication-key

{ [ no ] authentication-key <key> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-key	Authentication key used by LISP site
<i>key</i>	SHA-1 password

## Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site



# authentication-key

```
{ { authentication-key <key> } | { no authentication-key [ <key> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
authentication-key	Configure the authentication key for the sham-link
<i>key</i>	Authentication key

## Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

# authentication-type

```
{ authentication-type { cleartext | md5 } | no authentication-type [ { cleartext | md5 } ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# authentication-type

{ authentication-type { cleartext | md5 } <level> | no authentication-type [ { cleartext | md5 } ] <level> }

## Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5
<i>level</i>	IS-IS level

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# authentication

[no] authentication [ message-digest | null ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Authentication on the vlink
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

## authentication (router-eigrp-af-common)

[no] authentication { { key-chain <chain> } | { mode md5 } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Configures EIGRP authentication subcommands
key-chain	key-chain
<i>chain</i>	name of key-chain
mode	mode
md5	Keyed message digest

### Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# authentication key-chain

authentication [ neighbor <nbr> ] key-chain <key-chain-name> | no authentication [ neighbor <nbr> ] key-chain

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
key-chain	Authentication password key-chain
<i>key-chain-name</i>	Key-chain name

## Command Mode

- /exec/configure/ip-rsvp

# authentication type

```
[no] authentication [ neighbor <nbr> ] type { md5 | sha-1 }
```

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
type	Type of authentication algorithm
md5	RSA Message Digest 5 hash algorithm (default)
sha-1	NIST Secure Hash Algorithm 1

## Command Mode

- /exec/configure/ip-rsvp

# authentication lifetime

[no] authentication [ neighbor <nbr> ] lifetime <time>

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
lifetime	Maximum lifetime of neighbor authentication state
<i>time</i>	Lifetime value(in seconds)

## Command Mode

- /exec/configure/ip-rsvp



# authentication window-size

[no] authentication [ neighbor <nbr> ] window-size <value>

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
window-size	Receive window size for authenticated messages
<i>value</i>	Maximum number of messages allowed in receive window

## Command Mode

- /exec/configure/ip-rsvp

# authentication challenge

[no] authentication [ neighbor <nbr> ] challenge

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
challenge	Perform challenge/response handshake with new RSVP neighbors

## Command Mode

- /exec/configure/ip-rsvp

## authentication (router-ospf-slink)

[no] authentication [ message-digest | null ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Authentication on the slink
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

### Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

## authentication (ldap)

```
[no] authentication { bind-first [ append-with-basedn <s1> ] | compare [ password-attribute <s0> ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Set the authentication method
bind-first	Set the authentication method to bind-first
append-with-basedn	(Optional) Change the default value (cn=\$userid)
<i>s1</i>	(Optional) append with dn value
compare	Change the default attribute
password-attribute	(Optional) Change the default password attribute (userPassword)
<i>s0</i>	(Optional) password attribute

### Command Mode

- /exec/configure/ldap

## authentication (hsrp\_ipv6)

```
authentication { [ text ] <secret> | md5 { key-chain <chain-name> | key-string [ 0 | 7 ] <key-name> [
compatibility ] [ timeout <sec> ] } } | no authentication
```

### Syntax Description

no	Negate a command or set its defaults
authentication	Authentication
text	(Optional) Plain text authentication
<i>secret</i>	Plain text authentication string
md5	Use MD5 authentication
key-chain	Set key chain
<i>chain-name</i>	Name of key-chain
key-string	Set key string
0	(Optional) Specifies an UNENCRYPTED key string will follow
7	(Optional) Specifies a HIDDEN key string will follow
<i>key-name</i>	Key string (64 chars max)
compatibility	(Optional) Operate in compatibility mode for MD5 type-7 authentication
timeout	(Optional) Set timeout
<i>sec</i>	(Optional) (0-32767)Timeout until only accepting new key (seconds)

### Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

## authentication (glbp)

```
authentication { { md5 { { key-chain <word-chain> } | { key-string [ encrypted ] <word-string> } } } | { text
<word-text> } } | no authentication
```

### Syntax Description

no	Negate a command or set its defaults
authentication	Configure authentication
md5	MD5 authentication
key-chain	MD5 Key-chain authentication
<i>word-chain</i>	MD5 authentication key-chain
key-string	MD5 keyed authentication
encrypted	(Optional) Specifies an encrypted key will follow
<i>word-string</i>	MD5 authentication key
text	Plain text authentication
<i>word-text</i>	Plain text

### Command Mode

- /exec/configure/if-eth-any/glbp

# authentication key-chain

```
{ authentication key-chain <keychain> } | { no authentication key-chain [ <keychain> ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Authentication on the vlink
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

## authentication key-chain (router-ospf-slink)

```
{ authentication key-chain <keychain> } | { no authentication key-chain [ <keychain> ] }
```

### Syntax Description

no	Negate a command or set its defaults
authentication	Authentication on the slink
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

### Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink



## authentication key-chain (otv-isis-vrf-common)

```
{ authentication key-chain <auth-keychain> | no authentication key-chain [ <auth-keychain> ] }
```

### Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	authentication keychain

### Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

## authentication key-chain (router-isis-vrf-common)

```
{ authentication key-chain <auth-keychain> <level> | no authentication key-chain [ <auth-keychain> ] <level>
}
```

### Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	authentication keychain
<i>level</i>	IS-IS level

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# authentication text

```
{ authentication text <authentication_pwd> | no authentication [ text <authentication_pwd> ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Select authentication method
text	Set the authentication password (8 char max)
<i>authentication_pwd</i>	

## Command Mode

- /exec/configure/if-eth-any/vrrp

# auto-bw

[no] auto-bw | auto-bw [ { [ collect-bw | frequency <sec> ] + } | { [ frequency <sec> | min-bw <min-kbps> | max-bw <max-kbps> ] + } ]

## Syntax Description

no	Negate a command or set its defaults
auto-bw	Specify automatic bandwidth configuration
collect-bw	(Optional) Just collect bandwidth info
frequency	(Optional) frequency to change LSP bandwidth
<i>sec</i>	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the maximum bandwidth for auto-bw
<i>max-kbps</i>	(Optional) Maximum bandwidth to apply (kbps)
min-bw	(Optional) Set the minimum bandwidth for auto-bw
<i>min-kbps</i>	(Optional) Minimum bandwidth to apply (kbps)

## Command Mode

- /exec/configure/te/lsp-attr

## auto-bw (if-te)

[no] auto-bw | auto-bw [ { [ collect-bw | frequency <sec> ] + } | { [ frequency <sec> | min-bw <min-kbps> | max-bw <max-kbps> ] + } ]

### Syntax Description

no	Negate a command or set its defaults
auto-bw	Specify mpls tunnel should automatically change bw
collect-bw	(Optional) Just collect Bandwidth info on this tunnel
frequency	(Optional) Frequency to change tunnel BW
<i>sec</i>	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the Maximum Bandwidth for auto-bw on this tunnel
<i>max-kbps</i>	(Optional) Maximum kb/s that tunnel can be auto set to
min-bw	(Optional) Set the Minimum Bandwidth for auto-bw on this tunnel
<i>min-kbps</i>	(Optional) Min kb/s that tunnel can be auto set to

### Command Mode

- /exec/configure/if-te

## auto-bw timers

[no] auto-bw timers { frequency } | auto-bw timers { frequency <sec> }

### Syntax Description

no	Negate a command or set its defaults
auto-bw	auto-bw parameters
timers	Enable auto-bw timers
frequency	Interval between auto-bw data collection
<i>sec</i>	Seconds between auto-bw data collection

### Command Mode

- /exec/configure/te

## auto-cost reference-bandwidth

auto-cost reference-bandwidth { <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps } | no auto-cost  
reference-bandwidth [ <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps ]

### Syntax Description

no	Negate a command or set its defaults
auto-cost	Calculate OSPF cost according to bandwidth
reference-bandwidth	Reference bandwidth used to assign OSPF cost
Mbps	(Optional) Specify rate in Mbps
Gbps	Specify rate in Gbps
<i>ref-bw-mbps</i>	Rate in Mbps (bandwidth) (Default)
<i>ref-bw-gbps</i>	Rate in Gbps (bandwidth)

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## auto-cost reference-bandwidth (vrf)

auto-cost reference-bandwidth { <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps } | no auto-cost reference-bandwidth [ <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps ]

### Syntax Description

no	Negate a command or set its defaults
auto-cost	Calculate OSPFv3 cost according to bandwidth
reference-bandwidth	Reference bandwidth used to assign OSPFv3 cost
Mbps	(Optional) Specify rate in Mbps
Gbps	Specify rate in Gbps
<i>ref-bw-mbps</i>	Rate in Mbps (bandwidth) (Default)
<i>ref-bw-gbps</i>	Rate in Gbps (bandwidth)

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf



# auto-recovery

auto-recovery [ reload-delay <time-out> ] | no auto-recovery [ reload-delay <time-out> ]

## Syntax Description

no	Negate a command or set its defaults
auto-recovery	vPC settings to enable auto recovery if peer is presumed non-operational
reload-delay	(Optional) Duration to wait before assuming peer dead and restoring vpcs
<i>time-out</i>	(Optional) Time-out for restoring vPC links (in seconds)

## Command Mode

- /exec/configure/vpc-domain

# auto-remap-replication-servers

[no] auto-remap-replication-servers

## Syntax Description

no	(Optional) Negate a command or set its defaults
auto-remap-replication-servers add	Automatically re-map replication servers on every replication server

## Command Mode

- /exec/configure/if-nve

# autonomous-system

{ { autonomous-system <local-as> } | { no autonomous-system [ <local-as> ] } }

## Syntax Description

no	Negate a command or set its defaults
autonomous-system	Specify AS number for Address Family
<i>local-as</i>	Local AS number

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# autoroute announce

[no] autoroute announce

## Syntax Description

no	(Optional) Negate a command or set its defaults
autoroute	parameters for IGP routing over tunnel
announce	announce tunnel to IGP

## Command Mode

- /exec/configure/if-te

# autoroute metric

[no] autoroute metric | autoroute metric { <value> | relative <rel-value> }

## Syntax Description

no	Negate a command or set its defaults
autoroute	parameters for IGP routing over tunnel
metric	Specify mpls tunnel metric
<i>value</i>	Set tunnel metric for autoroutes
relative	Adjust tunnel metric for autoroutes relative to IGP
<i>rel-value</i>	Relative metric value

## Command Mode

- /exec/configure/if-te

# autostate

[no] autostate

## Syntax Description

no	(Optional) Negate a command or set its defaults
autostate	Enable or disable autostate for interface-vlan

## Command Mode

- /exec/configure/if-vlan TIMEOUT 120

# autovlan enable

[no] autovlan enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
autovlan	Automatic creation/deletion of VLANs
enable	Enable auto creation/deletion of VLANs

## Command Mode

- /exec/configure/vmt-conn

# awk

awk <expr>

## Syntax Description

	Pipe command output to filter
awk	Mini AWK
<i>expr</i>	Edition command (script)

## Command Mode

- /output





## B Commands

---

- [backoff](#), on page 175
- [backup-bw](#), on page 176
- [bandwidth](#), on page 177
- [bandwidth inherit](#), on page 178
- [bandwidth inherit](#), on page 179
- [bandwidth \(if-eth-port-channel-p2p\)](#), on page 180
- [bandwidth \(if-vlan-common\)](#), on page 181
- [bandwidth \(plc/class\)](#), on page 182
- [bandwidth \(cbts-member\)](#), on page 183
- [bandwidth \(if-any-tunnel\)](#), on page 184
- [bandwidth \(queuing/class\)](#), on page 185
- [banner motd](#), on page 186
- [bcm-shell module](#), on page 187
- [bcm-shell module](#), on page 188
- [beacon](#), on page 189
- [begin](#), on page 190
- [bestpath](#), on page 191
- [bestpath](#), on page 192
- [bestpath compare-neighborid](#), on page 193
- [bfd-app session auto-expiry](#), on page 194
- [bfd-app session remove](#), on page 195
- [bfd-app session src-ip](#), on page 196
- [bfd](#), on page 197
- [bfd \(router-eigrp \)](#), on page 198
- [bfd \(router-isis-af-ipv6\)](#), on page 199
- [bfd \(router-bgp-neighbor-sess\)](#), on page 200
- [bfd interval multiplier](#), on page 201
- [bfd echo-rx-interval](#), on page 202
- [bfd interval](#), on page 203
- [bfd authentication](#), on page 204
- [bfd optimize subinterface](#), on page 205
- [bfd echo](#), on page 206
- [bfd slow-timer](#), on page 207

- `bfd (if-eth-port-channel)`, on page 208
- `bfd (if-ma)`, on page 209
- `bfd (router-ospf3/vrf)`, on page 210
- `bfd echo-interface`, on page 211
- `bfd move-session target`, on page 212
- `bfd neighbor src-ip`, on page 213
- `bfd session-store remove`, on page 214
- `bfd session-store source-ip`, on page 215
- `bfd startup-timer`, on page 216
- `bfd system internal`, on page 217
- `blink`, on page 220
- `bloggerd delete`, on page 221
- `bloggerd live-process-core process`, on page 222
- `bloggerd live-process-core sap`, on page 223
- `bloggerd log-dump`, on page 224
- `bloggerd log-dump once log-buffer sap`, on page 225
- `bloggerd log-dump once pss uuid`, on page 226
- `bloggerd log-throttle`, on page 227
- `bloggerd log-transfer`, on page 228
- `bloggerd log-transfer`, on page 229
- `bloggerd mleak-check directory1`, on page 230
- `bloggerd mleak-dump all`, on page 231
- `bloggerd parse log-buffer`, on page 232
- `bloggerd parse log-buffer file`, on page 233
- `bloggerd parse pss file`, on page 234
- `boot-install nxos`, on page 235
- `boot-order`, on page 236
- `boot`, on page 237
- `boot aci`, on page 238
- `boot auto-copy`, on page 239
- `boot kickstart`, on page 240
- `boot nxos`, on page 241
- `boot order bootflash`, on page 242
- `boot order pxe`, on page 243
- `boot system`, on page 244
- `bootmode boot`, on page 245
- `bootmode extruntime`, on page 246
- `bootmode hitless`, on page 247
- `bootmode module`, on page 248
- `bootmode nodiagruntime`, on page 249
- `bootmode runtime`, on page 250
- `buffer-boost`, on page 251
- `buffer-delete`, on page 252
- `buffer-move`, on page 253

# backoff

backoff <initial-backoff> <maximum-backoff> | no backoff

## Syntax Description

no	Negate a command or set its defaults
backoff	Set LDP session backoff parameters
<i>initial-backoff</i>	Initial session backoff time (seconds)
<i>maximum-backoff</i>	Maximum session backoff time (seconds)

## Command Mode

- /exec/configure/ldp

# backup-bw

backup-bw { <kbps> } | no backup-bw

## Syntax Description

no	Negate a command or set its defaults
backup-bw	Represents bw for Fast Reroute backup
<i>kbps</i>	Amount of allocatable backup bw, any lsp may use

## Command Mode

- /exec/configure/if-te

# bandwidth

[no] bandwidth | bandwidth { <bw> }

## Syntax Description

no	Negate a command or set its defaults
bandwidth	Specify LSP bandwidth
<i>bw</i>	bandwidth requirement in kbps

## Command Mode

- /exec/configure/te/lsp-attr

# bandwidth inherit

bandwidth { <bandwidth\_val> | inherit [ <inherit\_val> ] } | no bandwidth { [ <bandwidth\_val> ] | inherit [ <inherit\_val> ] }

## Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits
inherit	Specify that bandwidth is inherited
<i>inherit_val</i>	(Optional) Bandwidth in kilobits

## Command Mode

- /exec/configure/if-ether-sub
- /exec/configure/if-ether-sub-p2p
- /exec/configure/if-port-channel-sub

# bandwidth inherit

```
bandwidth { <bandwidth_val> | inherit [ <inherit_val> ] } | no bandwidth { [ <bandwidth_val> ] | inherit [ <inherit_val> ] }
```

## Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits
inherit	Specify that bandwidth is inherited
<i>inherit_val</i>	(Optional) Bandwidth in kilobits

## Command Mode

- /exec/configure/if-ethernet-all
- /exec/configure/if-eth-non-member
- /exec/configure/if-gig-ether-sub
- /exec/configure/if-remote-ethernet-sub

## bandwidth (if-eth-port-channel-p2p)

```
bandwidth { <bandwidth_val> | inherit [ <inherit_val> ] } | no bandwidth { [ <bandwidth_val> ] | inherit [ <inherit_val> ] }
```

### Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits
inherit	Specify that bandwidth is inherited
<i>inherit_val</i>	(Optional) Bandwidth in kilobits
<i>inherit_val</i>	(Optional) Bandwidth in kilobits

### Command Mode

- /exec/configure/if-eth-port-channel
- /exec/configure/if-port-channel-range
- /exec/configure/if-port-channel-sub
- /exec/configure/if-eth-port-channel-switch
- /exec/configure/if-eth-port-channel-p2p



## bandwidth (if-vlan-common)

bandwidth <bandwidth\_val> | no bandwidth

### Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits

### Command Mode

- /exec/configure/if-vlan-common

## bandwidth (plc/class)

[no] bandwidth { { <bw-value> [ bps | kbps | mbps | gbps ] | percent <percentage> } | { remaining percent <rem-perc> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
bandwidth	Specify bandwidth for the class
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
percent	Percentage of available bandwidth
<i>percentage</i>	Value in percentage
remaining	% of remaining bandwidth
<i>rem-perc</i>	Value in percentage

### Command Mode

- /exec/configure/policy-map/type/plc/class

## bandwidth (cbts-member)

[no] bandwidth | bandwidth { <kbps> }

### Syntax Description

no	Negate a command or set its defaults
bandwidth	tunnel bandwidth requirement
<i>kbps</i>	bandwidth requirement in kbps

### Command Mode

- /exec/configure/if-te
- /exec/configure/tunnel-te/cbts-member

## bandwidth (if-any-tunnel)

bandwidth <bandwidth\_val> | no bandwidth

### Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits

### Command Mode

- /exec/configure/if-any-tunnel

## bandwidth (queuing/class)

```
[no] bandwidth { { xxx <bw-value> [ bps | kbps | mbps | gbps ] | percent <percentage> } | { remaining percent <rem-perc> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
bandwidth	Specify bandwidth for the class
xxx	xxx
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
percent	Percentage of available bandwidth
<i>percentage</i>	Value in percentage
remaining	% of remaining bandwidth
<i>rem-perc</i>	Value in percentage

### Command Mode

- /exec/configure/policy-map/type/queuing/class

# banner motd

{ banner motd <line> } | { no banner motd }

## Syntax Description

no	Negate a command or set its defaults
banner	Configure banner message
motd	Configure banner motd message
<i>line</i>	Delimiter char (Very first char is delimiter char) followed by message ending with delimiter

## Command Mode

- /exec/configure

# bcm-shell module

bcm-shell module <module> <quoted-cmd>

## Syntax Description

bcm-shell	bcm shell/cmd
module	Module number of the linecard
<i>module</i>	Enter module number
<i>quoted-cmd</i>	the command to run on bcm-shell

## Command Mode

- /exec

# bcm-shell module

bcm-shell module <module>

## Syntax Description

bcm-shell	bcm shell/cmd
module	Module number of the linecard
<i>module</i>	Enter module number

## Command Mode

- /exec



# beacon

[no] beacon

## Syntax Description

no	(Optional) Negate a command or set its defaults
beacon	Disable/enable the beacon for an interface

## Command Mode

- /exec/configure/if-ethernet-all
- /exec/configure/if-eth-base

# begin

{ begin | exclude | include | end } [ -i | -x ] + <expr> [ next <num> | prev <num> ] +

## Syntax Description

	Pipe command output to filter
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
end	End with the line that matches
-i	(Optional) Ignore case difference when comparing strings
-x	(Optional) Print only lines where the match is a whole line
<i>expr</i>	Search for the expression
next	(Optional) Print <num> lines of context after every matching line
prev	(Optional) Print <num> lines of context before every matching line
<i>num</i>	(Optional) Print <num> lines of context

## Command Mode

- /output

# bestpath

[no] bestpath { all-paths-ecmp }

## Syntax Description

no	(Optional) Negate a command or set its defaults
bestpath	Change default bestpath selection algorithm
all-paths-ecmp	Treat all paths as ECMP during bestpath calculation

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

# bestpath

[no] bestpath { always-compare-med | med { missing-as-worst | non-deterministic | confed } | compare-routerid | cost-community ignore | as-path multipath-relax }

## Syntax Description

no	(Optional) Negate a command or set its defaults
bestpath	Change default bestpath selection algorithm
always-compare-med	Compare MED on paths from different AS
med	MED
missing-as-worst	Treat missing MED as highest MED
non-deterministic	Not always pick the best-MED path among paths from same AS
compare-routerid	Compare router-id for identical EBGp paths
cost-community	cost community
ignore	Ignore cost communities in bestpath selection
confed	Compare MED only from paths originated from within a confederation
as-path	AS-Path
multipath-relax	Relax AS-Path restriction when choosing multipaths

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# bestpath compare-neighborid

[no] bestpath compare-neighborid

## Syntax Description

no	(Optional) Negate a command or set its defaults
bestpath	Change default bestpath selection algorithm
compare-neighborid	When more paths available than max path config, use neighborid tbreaker

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

## bfd-app session auto-expiry

```
bfd-app session auto-expiry { timeout <millis> | now }
```

### Syntax Description

bfd-app	BFD application commands
auto-expiry	auto expiry start/end
session	session operation
timeout	timeout after
now	expiry reached, dont wait to timeout, do them now
<i>millis</i>	milli-secs later

### Command Mode

- /exec/configure

## bfd-app session remove

```
bfd-app session remove { all | intf <intf_id> | iod <iod_id> }
```

### Syntax Description

bfd-app	BFD application commands
session	session operation
remove	Remove sessions
all	Remove all sessions
intf	Remove all sessions on interface
<i>intf_id</i>	Interface Id
iod	interface iod
<i>iod_id</i>	Interface iod in hex

### Command Mode

- /exec/configure

## bfd-app session src-ip

```
[no] bfd-app session src-ip { <src_ip> dest-ip <dest_ip> | <src_ipv6> dest-ip <dest_ipv6> } { intf <intf_id> | iod <iod_id> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd-app	BFD application commands
session	session operation
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value
iod	interface iod
<i>iod_id</i>	Interface iod in hex
intf	interface
<i>intf_id</i>	Interface Id

### Command Mode

- /exec/configure



# bfd

[no] bfd

## Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all OSPF interfaces

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## bfd (router-eigrp )

[no] bfd

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all EIGRP interfaces

### Command Mode

- /exec/configure/router-eigrp
- /exec/configure/router-eigrp/router-eigrp-vrf
- /exec/configure/router-eigrp/router-eigrp-af-common

## bfd (router-isis-af-ipv6)

[no] bfd

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable IPv4 BFD on all ISIS interfaces

### Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

## bfd (router-bgp-neighbor-sess)

[ no | default ] bfd

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
bfd	Bidirectional Fast Detection for the neighbor

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

## bfd interval multiplier

[no] bfd [ ipv4 | ipv6 ] interval [ <min\_tx\_mills> min\_rx <min\_rx\_mills> multiplier <int\_mult> ]

### Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
<i>min_rx_mills</i>	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd sessions
<i>int_mult</i>	(Optional) Detect Multiplier

### Command Mode

- /exec/configure
- /exec/configure/if-ma
- /exec/configure/if-ma-p2p

## bfd echo-rx-interval

bfd [ ipv4 | ipv6 ] echo-rx-interval <intv> | no bfd [ ipv4 | ipv6 ] echo-rx-interval

### Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
echo-rx-interval	Configure BFD session echo rx interval
<i>intv</i>	Echo Rx Interval in milliseconds

### Command Mode

- /exec/configure
- /exec/configure/if-ma
- /exec/configure/if-ma-p2p

# bfd interval

bfd [ ipv6 | ipv4 ] interval <min\_tx\_mills> min\_rx <min\_rx\_mills> multiplier <int\_mult>

## Syntax Description

bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
<i>int_mult</i>	Detect Multiplier

## Command Mode

- /exec/configure
- /exec/configure/if-ma
- /exec/configure/if-ma-p2p

## bfd authentication

```
bfd [ { ipv4 | ipv6 } ] authentication <auth_name> key-id <key_id_val> { key <key_val> | hex-key <h_key_val> } | no bfd [ { ipv4 | ipv6 } ] authentication
```

### Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
authentication	Configure BFD authentication parameters
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions
<i>auth_name</i>	auth algorithm
key-id	Key ID to use in BFD frames
<i>key_id_val</i>	Key ID value
key	ASCII SHA1 secret
hex-key	HEX binary SHA1 secret
<i>key_val</i>	SHA1 secret value
<i>h_key_val</i>	SHA1 secret value. e.g ABCD123

### Command Mode

- /exec/configure/if-ma
- /exec/configure/if-vlan
- /exec/configure/if-ma-p2p



# bfd optimize subinterface

[no] bfd [ ipv4 ] optimize subinterface

## Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
optimize	optimize
subinterface	optimize subinterfaces
ipv4	(Optional) ipv4 sessions

## Command Mode

- /exec/configure/if-ma
- /exec/configure/if-ma-p2p

# bfd echo

[no] bfd [ { ipv4 | ipv6 } ] echo

## Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
echo	Configure Echo function for all address families
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

## Command Mode

- /exec/configure/if-ma
- /exec/configure/if-vlan
- /exec/configure/if-ma-p2p

# bfd slow-timer

bfd [ { ipv4 | ipv6 } ] slow-timer <int\_slow\_timer> | no bfd [ { ipv4 | ipv6 } ] slow-timer

## Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
slow-timer	Configure slow mode timer for sessions
<i>int_slow_timer</i>	Slow rate timer in milliseconds
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

## Command Mode

- /exec/configure

## bfd (if-eth-port-channel)

[no] bfd [ { ipv4 | ipv6 } ] per-link

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
per-link	Run BFD sessions on each port-channel link
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

### Command Mode

- /exec/configure/if-eth-port-channel
- /exec/configure/if-port-channel-sub
- /exec/configure/if-eth-port-channel-p2p

## bfd (if-ma)

[no] bfd [ ipv4 | ipv6 ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

### Command Mode

- /exec/configure/if-ma
- /exec/configure/if-vlan
- /exec/configure/if-ma-p2p

## bfd (router-ospf3/vrf)

[no] bfd

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all OSPF interfaces

### Command Mode

- /exec/configure/router-ospf3
- /exec/configure/router-ospf3/vrf

# bfd echo-interface

[no] bfd echo-interface <ifindex>

## Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
echo-interface	Configure interface used for bfd echo frames
<i>ifindex</i>	loopback interface

## Command Mode

- /exec/configure

## bfd move-session target

bfd move-session target <target\_mod> [ <discr> ]

### Syntax Description

bfd	BFD commands
move-session	move a session
target	Target module
<i>target_mod</i>	Module number
<i>discr</i>	(Optional) Session discriminator

### Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p



## bfd neighbor src-ip

[no] bfd neighbor src-ip { <src\_ip> dest-ip <dest\_ip> | <src\_ipv6> dest-ip <dest\_ipv6> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
neighbor	BFD neighbor configuration commands (simulate client)
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value

### Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

## bfd session-store remove

```
bfd session-store remove <hex_disc> client <int_cl>
```

### Syntax Description

bfd	BFD commands
session-store	session store operation
remove	Remove session from session store
<i>hex_disc</i>	Session discriminator
client	Client Id
<i>int_cl</i>	client

### Command Mode

- /exec/configure

## bfd session-store source-ip

bfd session-store source-ip <src\_ip> dest-ip <dest\_ip> intf <intf\_id> client <int\_cl>

### Syntax Description

bfd	BFD commands
session-store	Session store operation
source-ip	source ip
<i>src_ip</i>	source ip value
dest-ip	dest ip
<i>dest_ip</i>	source ip value
intf	interface
<i>intf_id</i>	Interface Id
client	Client Id
<i>int_cl</i>	client

### Command Mode

- /exec/configure

## bfd startup-timer

bfd startup-timer <int\_startup\_timer> | [ no ] bfd startup-timer

### Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
startup-timer	Configure Delayed Start Up timer for sessions
<i>int_startup_timer</i>	Start Up timer in seconds

### Command Mode

- /exec/configure

## bfd system internal

```
[no] bfd system internal { max session histories <sess_histories_val> | max lc retry interval <max_lc_retry_val>
| max acl retry interval <max_acl_retry_val> | lc retry interval <lc_retry_val> | acl retry interval <acl_retry_val>
| session init retry interval <init_retry_val> | move interval <move_interval> | max lc wait <max_lc_wait_val>
| move detect-mult <move_dm> | neighbor-discovery interval <discovery_val> | max sessions <max_sess_val>
| max mts tlvs <tlv_val> | enable-mts <f2lc_number_v> <f3lc_number_v> | max mts flush interval <flush_val>
| session expiry <session_expiry_val> } | { interval issu <tx_val> min_rx <rx_val> multiplier <multiplier_val>
}
```

### Syntax Description

no	(Optional) Reset global config to defaults
bfd	BFD commands
system	System-related commands
internal	Commands for internal use
max	Configure maximum
session	session
histories	histories to retain
<i>sess_histories_val</i>	Number of session histories to retain
retry	retry
interval	interval
lc	LC
retry	LC retry (secs)
<i>max_lc_retry_val</i>	Value for max interval(sec)
<i>lc_retry_val</i>	gap in seconds
session	Session
init	reinit interval
flush	flush interval
interval	interval
<i>init_retry_val</i>	Gap in seconds
acl	acl
<i>max_acl_retry_val</i>	Maximum interval for which acl installation needs to be retried (secs)

<i>flush_val</i>	Maximum interval to wait before pending mts is sent to aclmgr/bfdc (sec)
acl	acl
<i>acl_retry_val</i>	Acl retry interval(secs)
interval	TX to use during ISSU
issu	issu parameters
min_rx	RX to use during ISSU
multiplier	Multiplier to use during ISSU
<i>tx_val</i>	TX val (msec)
<i>rx_val</i>	RX val (msecs)
<i>multiplier_val</i>	Multiplier
move	Move
interval	interval
<i>move_interval</i>	move interval value
detect-mult	detect multiplier
<i>move_dm</i>	move detect multiplier value
wait	wait
<i>max_lc_wait_val</i>	max wait time(sec)
neighbor-discovery	neighbor discovery
<i>discovery_val</i>	Neighbor discovery interval(msecs)
sessions	sessions
<i>max_sess_val</i>	max number of sessions(16-10000)
mts	mts msg
tlvs	TLVS batched
<i>tlv_val</i>	number of tlvs
enable-mts	Enables MTS send(F2)/recv(F3) between Specified line cards
<i>f2lc_number_v</i>	F2 Line card number (1-10)
<i>f3lc_number_v</i>	F3 Line card number (1-10)
session	session

expiry	expiry
<i>session_expiry_val</i>	session expiry sec

**Command Mode**

- /exec

# blink

```
[no] blink { module <module> | <s0> <santa-cruz-range> | chassis | powersupply <psnum> | fan <fan_num>
}
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
blink	blink locator led
module	blink module led
<i>module</i>	please enter the module number
<i>s0</i>	blink a specific xbar
<i>santa-cruz-range</i>	please enter the xbar number
chassis	blink chassis led
powersupply	blink powersupply led
<i>psnum</i>	powersupply number
fan	blink Fan led
<i>fan_num</i>	fan number

## Command Mode

- /exec



# bloggerd delete

bloggerd delete { all-temporary-binary-log-dumps | all-temporary-binary-show-tech-files }

## Syntax Description

bloggerd	Blogger commands
delete	Delete all logs of one type
all-temporary-binary-log-dumps	Delete all binary log dumps from the local partition (/var/sysmgr/tmp/)
all-temporary-binary-show-tech-files	Delete all binary show tech files

## Command Mode

- /exec

## bloggerd live-process-core process

bloggerd live-process-core process <process-name> pid <process-pid>

### Syntax Description

bloggerd	Blogger commands
live-process-core	Request a process core dump without killing it
process	Linux Process name
<i>process-name</i>	Enter the Linux name of the process for which core is being requested (Eg: sysmgr)
pid	Process PID
<i>process-pid</i>	Enter the linux PID of the process for which core is being requested (Eg: 4571)

### Command Mode

- /exec

# bloggerd live-process-core sap

bloggerd live-process-core sap <sap>

## Syntax Description

bloggerd	Blogger commands
live-process-core	Dump the core of the live-process
sap	Dump core for a particular SAP
<i>sap</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC

## Command Mode

- /exec

## bloggerd log-dump

```
[no] bloggerd log-dump { all | [ module <module> ] sap <sap_num> [ vdc <new_id> | vdc-all ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
bloggerd	Blogger commands
log-dump	Dump Log Buffer
all	Log Dump for ALL services across ALL modules in the switch on reaching threshold
module	(Optional) Enable Buffer Dump for particular Module
<i>module</i>	(Optional) Enter a valid Module Number
sap	Enable Buffer Dump for a particular sap
<i>sap_num</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC
vdc	(Optional) Enable Log Dump for a particular VDC. DEFAULT_VDC by default
<i>new_id</i>	(Optional) Enter a valid VDC ID
vdc-all	(Optional) Enable Log Dump for the sap on ALL VDCs

### Command Mode

- /exec/configure

# bloggerd log-dump once log-buffer sap

```
bloggerd log-dump once log-buffer sap <sap> event-history { errors | msgs | { app-specific <uuid> instance
<buffer-instance> } }
```

## Syntax Description

bloggerd	Blogger commands
log-dump	Dump Log Buffer
once	Dump Log Buffer once immediately
log-buffer	Dump Log buffer
sap	Enable Buffer Dump for a particular sap
<i>sap</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC
event-history	Event-History Buffers
errors	event-history errors
msgs	event-history messages
app-specific	application specific event history
<i>uuid</i>	Enter valid app's UUID
instance	Buffer Instance of the App-Specific SDWrap buffer
<i>buffer-instance</i>	Enter a valid SDWrap buffer instance for the app

## Command Mode

- /exec

## bloggerd log-dump once pss uuid

bloggerd log-dump once pss uuid <uuid>

### Syntax Description

bloggerd	Blogger commands
log-dump	Dump Log Buffer
once	Dump Log Buffer once immediately
pss	Dump PSS
uuid	Dump PSS for a particular UUID
<i>uuid</i>	Enter a app's UUID

### Command Mode

- /exec

## bloggerd log-throttle

```
[no] bloggerd log-throttle [ min-rollover <min-rollover> max-rollover-per-minute <max-rollover-per-minute> ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
bloggerd	Blogger commands
log-throttle	Enable Log Dump Throttling for all NxOS services
min-rollover	(Optional) Number of minimum buffer rollovers before starting to throttle. Default: 5
<i>min-rollover</i>	(Optional) Enter the minimum number of roll-overs before throttling log-dump. Default: 5
max-rollover-per-minute	(Optional) Maximum allowed buffer rollovers per minute. Default: 1
<i>max-rollover-per-minute</i>	(Optional) Enter the maximum allowed roll-overs per minute before throttling. Default: 1

### Command Mode

- /exec/configure

# bloggerd log-transfer

```
bloggerd log-transfer { <ip-addr> <path> | logflash }
```

## Syntax Description

bloggerd	Blogger commands
log-transfer	Configure log transfer
<i>ip-addr</i>	IP addr of logging server
<i>path</i>	Path in tftp server to store logs. Eg: logOutput
logflash	Move all log-files to logflash

## Command Mode

- /exec/configure



# bloggerd log-transfer

[no] bloggerd log-transfer

## Syntax Description

no	Negate a command or set its defaults
bloggerd	Blogger commands
log-transfer	Configure log transfer

## Command Mode

- /exec/configure

# bloggerd mleak-check directory1

bloggerd mleak-check directory1 <uri0> directory2 <uri1>

## Syntax Description

bloggerd	Blogger commands
mleak-check	Leak check
directory1	Enter path of directory
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)
directory2	Enter path of directory
<i>uri1</i>	Linux path to file/directory (Eg: /bootflash/abc)

## Command Mode

- /exec

# bloggerd leak-dump all

bloggerd leak-dump all

## Syntax Description

bloggerd	Blogger commands
mleak-dump	Leak dump
all	All apps on all modules

## Command Mode

- /exec

# bloggerd parse log-buffer

bloggerd parse log-buffer { file | directory } <uri0>

## Syntax Description

bloggerd	Blogger commands
parse	Parse a file
log-buffer	Parse buffer log file
directory	Enter path of directory
file	Enter file name. Please unzip file before parsing!
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)

## Command Mode

- /exec

## bloggerd parse log-buffer file

bloggerd parse log-buffer file <uri0> sap <sap-num>

### Syntax Description

bloggerd	Blogger commands
parse	Parse a file
log-buffer	Parse buffer log file
file	Enter file name. Please unzip file before parsing!
<i>uri0</i>	Linux path to file (Eg: /bootflash/abc)
sap	SAP of the application which should parse the file
<i>sap-num</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC

### Command Mode

- /exec

# bloggerd parse pss file

bloggerd parse pss file <uri0>

## Syntax Description

bloggerd	Blogger commands
parse	Parse a file
pss	Parse a dumped PSS File
file	Enter file name (without pss extensions). Please unzip file before parsing!
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)

## Command Mode

- /exec

# boot-install nxos

```
{ boot-install nxos <uri0> | no boot-install nxos [ <uri0> ] }
```

## Syntax Description

no	Negate a command or set its defaults
boot-install	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter NXOS image uri

## Command Mode

- /exec/configure

# boot-order

boot-order <new\_id>

## Syntax Description

boot-order	The order at which a vdc will boot up. VDCs at the same level will be started parallelly
<i>new_id</i>	The order at which a vdc will boot up. VDCs at the same level will be started parallelly

## Command Mode

- /exec/configure/vdc



# boot

```
{ boot <s0> <uri0> [ module [ <module> ] ] | no boot <s0> [ <uri0> [ module [ <module> ] ] ] }
```

## Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
<i>s0</i>	use [show boot variables] for list of keywords
<i>uri0</i>	Enter module image uri
module	(Optional) Enter module number for the image
<i>module</i>	(Optional) Enter module number

## Command Mode

- /exec/configure

# boot aci

```
{ boot aci <uri0> | no boot aci [ <uri0> ] }
```

## Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
aci	Configure ACI image
<i>uri0</i>	Enter ACI image uri

## Command Mode

- /exec/configure

# boot auto-copy

[no] boot auto-copy

## Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot variables
auto-copy	Turns on/off autocopy of bootvar images

## Command Mode

- /exec/configure

# boot kickstart

```
{ boot kickstart <uri0> | no boot kickstart [ <uri0> ] }
```

## Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
kickstart	Configure kickstart image
<i>uri0</i>	Enter Kickstart image uri

## Command Mode

- /exec/configure

# boot nxos

{ boot nxos <uri0> | no boot nxos [ <uri0> ] }

## Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter nxos image uri

## Command Mode

- /exec/configure

# boot order bootflash

```
{ boot order bootflash [ pxe ] }
```

## Syntax Description

boot	Configure boot variables
order	Configure loader fallback order
bootflash	Boot from Bootflash
pxe	(Optional) Pxe Boot

## Command Mode

- /exec/configure

# boot order pxe

```
{ boot order pxe [ bootflash ] }
```

## Syntax Description

boot	Configure boot variables
order	Configure loader fallback order
pxe	Pxe Boot
bootflash	(Optional) Boot from Bootflash

## Command Mode

- /exec/configure

# boot system

{ boot system <uri0> | no boot system [ <uri0> ] }

## Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
system	Configure system image
<i>uri0</i>	Enter system image uri

## Command Mode

- /exec/configure



# bootmode boot

[no] bootmode boot

## Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
boot	boot in boot mode

## Command Mode

- /exec/configure

# bootmode extruntime

[no] bootmode extruntime

## Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
extruntime	boot in runtime mode with extended diags

## Command Mode

- /exec/configure

# bootmode hitless

[no] bootmode hitless

## Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
hitless	boot in hitless mode

## Command Mode

- /exec/configure

## bootmode module

[no] bootmode module <module> { boot | extruntime | hitless | netboot | nodiagruntime | runtime }

### Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
module	set bootmode for a given module in the switch
<i>module</i>	please enter module number
boot	boot in boot mode
extruntime	boot in runtime mode with extended diags
hitless	boot in hitless mode
netboot	boot using boot netboot in runtime mode
nodigruntime	boot in runtime mode without running any diags
runtime	boot in runtime mode with normal diags

### Command Mode

- /exec/configure

# bootmode nodiagruntime

[no] bootmode nodiagruntime

## Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
nodiagruntime	boot in runtime mode without running any diags

## Command Mode

- /exec/configure

# bootmode runtime

[no] bootmode runtime

## Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
runtime	boot in runtime mode with normal diags

## Command Mode

- /exec/configure

# buffer-boost

[no] buffer-boost

## Syntax Description

no	(Optional) Negate a command or set its defaults
buffer-boost	Enable extra buffers for this interface

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# buffer-delete

buffer-delete { <id-range> | <id> | all }

## Syntax Description

buffer-delete	delete buffered command(s)
<i>id-range</i>	Range(whole-number) of command id(s) to be deleted from switch-profile buffer
<i>id</i>	Exact command id (x.x.x format) to be deleted from switch-profile buffer
all	delete all buffered commands

## Command Mode

- /exec/configure



# buffer-move

buffer-move <fromid> <toid>

## Syntax Description

buffer-move	move buffered command(s)
<i>fromid</i>	Command id of command(s) to be moved in switch-profile buffer
<i>toid</i>	New command id to be assigned in switch-profile buffer

## Command Mode

- /exec/configure





## C Commands

---

- [callhome](#), on page 266
- [callhome send configuration](#), on page 267
- [callhome send diagnostic](#), on page 268
- [callhome send eem subject](#), on page 269
- [capability additional-paths receive](#), on page 270
- [capability additional-paths send](#), on page 271
- [capability suppress 4-byte-as](#), on page 272
- [capture session](#), on page 273
- [carrier-delay](#), on page 274
- [cbts-member tunnel-te](#), on page 275
- [cd](#), on page 276
- [cdp advertise](#), on page 277
- [cdp enable](#), on page 278
- [cdp enable](#), on page 279
- [cdp format device-id](#), on page 280
- [cdp holdtime](#), on page 281
- [cdp timer](#), on page 282
- [cfs clear message-context name](#), on page 283
- [cfs distribute](#), on page 284
- [cfs eth cos](#), on page 285
- [cfs eth distribute](#), on page 286
- [cfs internal](#), on page 287
- [cfs internal cfsoe](#), on page 288
- [cfs ipv4](#), on page 289
- [cfs ipv6](#), on page 290
- [cfs merge all-fabrics name](#), on page 291
- [cfs region](#), on page 292
- [change-password](#), on page 293
- [checkpoint](#), on page 294
- [checkpoint](#), on page 295
- [class-map](#), on page 296
- [class-map type control-plane](#), on page 297
- [class-map type network-qos](#), on page 298

- [class-map type psp, on page 299](#)
- [class-map type queuing, on page 300](#)
- [class-map type queuing, on page 301](#)
- [class, on page 302](#)
- [class, on page 303](#)
- [class \\_\\_inline, on page 304](#)
- [class class-default, on page 305](#)
- [class type network-qos, on page 306](#)
- [class type network-qos class-default, on page 307](#)
- [class type psp, on page 308](#)
- [class type queuing, on page 309](#)
- [clean ip bfd, on page 310](#)
- [clean ipv6 bfd, on page 311](#)
- [clear, on page 312](#)
- [clear topology, on page 313](#)
- [clear eigrp events, on page 314](#)
- [clear logging, on page 315](#)
- [clear \(vrf\), on page 316](#)
- [clear eigrp accounting, on page 317](#)
- [clear eigrp traffic, on page 318](#)
- [clear eigrp event-history, on page 319](#)
- [clear eigrp, on page 320](#)
- [clear access-list counters, on page 321](#)
- [clear \(keystore | sksd\), on page 322](#)
- [clear ipv6, on page 323](#)
- [clear all, on page 324](#)
- [clear access-list hardware counters, on page 325](#)
- [clear accounting log, on page 326](#)
- [clear bfd statistics, on page 327](#)
- [clear bgp, on page 328](#)
- [clear bgp event-history, on page 330](#)
- [clear bootvar log, on page 331](#)
- [clear cdp, on page 332](#)
- [clear checkpoint database, on page 333](#)
- [clear copp statistics, on page 334](#)
- [clear cores, on page 335](#)
- [clear cores archive, on page 336](#)
- [clear counters, on page 337](#)
- [clear counters buffers, on page 338](#)
- [clear counters interface, on page 339](#)
- [clear counters interface all, on page 340](#)
- [clear counters mpls strip, on page 341](#)
- [clear dot1x all, on page 342](#)
- [clear evb, on page 343](#)
- [clear evb, on page 344](#)
- [clear evb internal adjacency, on page 345](#)

- [clear evb internal event-history](#), on page 346
- [clear evb statistics](#), on page 347
- [clear fabric database dcu vrf](#), on page 348
- [clear fabric database host](#), on page 349
- [clear fabric database host statistics](#), on page 350
- [clear fabric database include-vrf](#), on page 351
- [clear fabric database statistics](#), on page 352
- [clear fabric database statistics type](#), on page 353
- [clear fabric database statistics type server-protocol radius group](#), on page 354
- [clear flow exporter](#), on page 355
- [clear flow monitor](#), on page 356
- [clear forwarding](#), on page 357
- [clear forwarding cumulative counter](#), on page 358
- [clear forwarding internal message counts](#), on page 359
- [clear forwarding internal unicast counts](#), on page 360
- [clear forwarding ipv4 multicast counters](#), on page 361
- [clear forwarding ipv6 adjacency mpls stats](#), on page 362
- [clear forwarding ipv6 multicast counters](#), on page 363
- [clear forwarding l2mcast info statistics](#), on page 364
- [clear forwarding l2vpn trace member-history](#), on page 365
- [clear forwarding mpls drop-stats](#), on page 366
- [clear forwarding mpls stats](#), on page 367
- [clear forwarding mpls trace adj-history](#), on page 368
- [clear forwarding mpls trace ecmp-history](#), on page 369
- [clear forwarding mpls trace label-history](#), on page 370
- [clear forwarding mpls trace te-history](#), on page 371
- [clear forwarding trace ecmp-history](#), on page 372
- [clear forwarding trace mfib oif-history](#), on page 373
- [clear forwarding trace mfib oiflist-history](#), on page 374
- [clear forwarding trace mfib otv oif-history](#), on page 375
- [clear forwarding trace mfib otv oiflist-history](#), on page 376
- [clear forwarding trace mfib otv v4-route-history](#), on page 377
- [clear forwarding trace mfib otv v6-route-history](#), on page 378
- [clear forwarding trace mfib platform oiflist-history](#), on page 379
- [clear forwarding trace mfib v4-route-history](#), on page 380
- [clear forwarding trace mfib v6-route-history](#), on page 381
- [clear forwarding trace nve-l3-vni-history](#), on page 382
- [clear forwarding trace nve-peer-history](#), on page 383
- [clear forwarding trace otv-adj-history](#), on page 384
- [clear forwarding trace otv-vlan-history](#), on page 385
- [clear forwarding trace v4-adj-history](#), on page 386
- [clear forwarding trace v4-pfx-history](#), on page 387
- [clear forwarding trace v4-rnh-history](#), on page 388
- [clear forwarding trace v6-adj-history](#), on page 389
- [clear forwarding trace v6-pfx-history](#), on page 390
- [clear forwarding trace v6-rnh-history](#), on page 391

- clear forwarding trace vobj-history, on page 392
- clear frame traffic, on page 393
- clear fs-daemon log, on page 394
- clear hardware, on page 395
- clear hardware flow ip, on page 397
- clear hardware flow ipmac, on page 398
- clear hardware flow ipv6, on page 399
- clear hardware flow l2, on page 400
- clear hardware flow mpls, on page 401
- clear hardware internal forwarding adjacency statistics default-route, on page 402
- clear hardware internal forwarding l3 counters, on page 403
- clear hardware internal interface-all asic counters, on page 404
- clear hardware internal ns interrupts, on page 405
- clear hardware rate-limiter, on page 406
- clear hsrp counters, on page 407
- clear icmpv6 cache, on page 408
- clear install all failed-standby, on page 409
- clear install failure-reason, on page 410
- clear install log-history, on page 411
- clear install status, on page 412
- clear ip adjacency, on page 413
- clear ip adjacency cache, on page 414
- clear ip adjacency statistics, on page 415
- clear ip amt tunnel, on page 416
- clear ip arp, on page 417
- clear ip arp cache, on page 418
- clear ip arp event-history, on page 419
- clear ip arp inspection log, on page 420
- clear ip arp inspection statistics vlan, on page 421
- clear ip arp statistics, on page 422
- clear ip arp suppression-cache statistics, on page 423
- clear ip arp suppression, on page 424
- clear ip arp tunnel-statistics, on page 425
- clear ip arp vpc-statistics, on page 426
- clear ip cache, on page 427
- clear ip dhcp global statistics, on page 428
- clear ip dhcp relay statistics, on page 429
- clear ip dhcp snooping binding, on page 430
- clear ip dhcp snooping statistics, on page 431
- clear ip dns all config, on page 432
- clear ip dns use-vrf config, on page 433
- clear ip eigrp, on page 434
- clear ip eigrp, on page 435
- clear ip ftm statistics, on page 436
- clear ip igmp, on page 437
- clear ip igmp event-history, on page 438

- clear ip igmp interface statistics, on page 439
- clear ip igmp internal mrib-cache, on page 440
- clear ip igmp snooping, on page 441
- clear ip igmp snooping event-history, on page 442
- clear ip igmp snooping explicit-tracking, on page 443
- clear ip igmp snooping groups, on page 444
- clear ip igmp snooping proxy querier ports, on page 445
- clear ip igmp snooping statistics, on page 446
- clear ip igmp snooping vpc peer-link-exclude vlan, on page 447
- clear ip interface statistics, on page 448
- clear ip lisp map-cache, on page 449
- clear ip lisp statistics, on page 450
- clear ip mbgp, on page 451
- clear ip mbgp, on page 452
- clear ip mbgp, on page 454
- clear ip msdp, on page 456
- clear ip msdp event-history, on page 457
- clear ip msdp peer, on page 458
- clear ip msdp policy statistics sa-policy, on page 459
- clear ip msdp statistics, on page 460
- clear ip nat translation, on page 461
- clear ip ospf, on page 462
- clear ip ospf traffic, on page 463
- clear ip ospf neighbor, on page 464
- clear ip ospf policy statistics, on page 465
- clear ip ospf interface, on page 467
- clear ip ospf database, on page 468
- clear ip ospf redistribution, on page 469
- clear ip pim event-history, on page 470
- clear ip pim interface statistics, on page 471
- clear ip pim policy statistics, on page 472
- clear ip pim policy statistics, on page 473
- clear ip pim route, on page 474
- clear ip pim statistics, on page 475
- clear ip rip policy statistics redistribute bgp, on page 476
- clear ip rsvp authentication, on page 477
- clear ip rsvp counters, on page 478
- clear ip rsvp hello instance counters, on page 479
- clear ip rsvp internal counters, on page 480
- clear ip rsvp reservation, on page 481
- clear ip rsvp sender, on page 482
- clear ip rsvp signalling, on page 483
- clear ip stats, on page 484
- clear ip traffic, on page 485
- clear ip vip, on page 486
- clear ipv6, on page 487

- [clear ipv6](#), on page 488
- [clear ipv6 adjacency](#), on page 489
- [clear ipv6 adjacency statistics](#), on page 490
- [clear ipv6 amt tunnel](#), on page 491
- [clear ipv6 cache](#), on page 492
- [clear ipv6 dhcp relay statistics](#), on page 493
- [clear ipv6 eigrp](#), on page 494
- [clear ipv6 icmp vpc-statistics](#), on page 495
- [clear ipv6 interface statistics](#), on page 496
- [clear ipv6 lisp statistics](#), on page 497
- [clear ipv6 mtu](#), on page 498
- [clear ipv6 neighbor](#), on page 499
- [clear ipv6 netstack mroute](#), on page 500
- [clear ipv6 pim event-history](#), on page 501
- [clear ipv6 pim interface statistics](#), on page 502
- [clear ipv6 pim policy statistics](#), on page 503
- [clear ipv6 pim route](#), on page 504
- [clear ipv6 pim statistics](#), on page 505
- [clear ipv6 rip policy statistics redistribute bgp](#), on page 506
- [clear ipv6 statistics](#), on page 507
- [clear ipv6 traffic](#), on page 508
- [clear isis](#), on page 509
- [clear isis ipv6 route-map statistics](#), on page 511
- [clear isis statistics](#), on page 513
- [clear isis dpi](#), on page 514
- [clear isis spf-log](#), on page 515
- [clear isis traffic](#), on page 516
- [clear isis adjacency](#), on page 517
- [clear isis event-history](#), on page 518
- [clear isis redistribution](#), on page 519
- [clear itd statistics](#), on page 520
- [clear l2fwder statistics](#), on page 521
- [clear lacp counters](#), on page 522
- [clear ldap-server statistics](#), on page 523
- [clear license](#), on page 524
- [clear lim counters](#), on page 525
- [clear line](#), on page 526
- [clear lisp ddt referral-cache](#), on page 527
- [clear lisp dynamic-eid](#), on page 528
- [clear lisp internal event-history](#), on page 529
- [clear lisp proxy-itr](#), on page 530
- [clear lisp site](#), on page 531
- [clear lldp counters](#), on page 532
- [clear lldp counters interface](#), on page 533
- [clear logging logfile](#), on page 534
- [clear logging nvram](#), on page 535



- clear logging onboard, on page 536
- clear logging onboard, on page 537
- clear logging session, on page 538
- clear login failures, on page 539
- clear mac address-table datapath, on page 540
- clear mmode database, on page 541
- clear mpls forwarding statistics, on page 542
- clear mpls ldp internal counters, on page 543
- clear mpls ldp neighbor, on page 544
- clear mpls strip labels, on page 545
- clear mpls switching label statistics, on page 546
- clear mpls traffic-eng auto-bw timers, on page 547
- clear mpls traffic-eng internal counters, on page 548
- clear mpls traffic-eng link-management counters, on page 549
- clear mpls traffic-eng tunnel counters, on page 550
- clear ntp session, on page 551
- clear ntp statistics, on page 552
- clear nve peers, on page 553
- clear nve peers history-log, on page 554
- clear nve vni, on page 555
- clear nvram, on page 556
- clear onep error, on page 557
- clear onep history, on page 558
- clear onep session rate-limit, on page 559
- clear onep statistics, on page 560
- clear onep trace, on page 561
- clear ospfv3, on page 562
- clear ospfv3, on page 563
- clear ospfv3, on page 564
- clear ospfv3, on page 566
- clear ospfv3, on page 567
- clear ospfv3, on page 568
- clear ospfv3, on page 569
- clear ospfv3, on page 570
- clear otv arp-nd, on page 571
- clear otv isis, on page 572
- clear otv isis, on page 573
- clear otv isis, on page 574
- clear otv isis, on page 575
- clear otv isis, on page 576
- clear otv isis, on page 577
- clear otv isis, on page 578
- clear pktmgr cache, on page 579
- clear pktmgr client, on page 580
- clear pktmgr interface, on page 581
- clear port-profile command-cache, on page 582

- clear port-profile database, on page 583
- clear port-security dynamic address, on page 584
- clear port-security dynamic interface, on page 585
- clear port-security nvram, on page 586
- clear port-security nvram force, on page 587
- clear processes log all, on page 588
- clear processes log all vdc-all, on page 589
- clear processes log archive, on page 590
- clear processes log pid, on page 591
- clear processes vdc, on page 592
- clear processes vdc, on page 593
- clear ptp counters, on page 594
- clear qos mpls-snmp, on page 595
- clear qos policies, on page 596
- clear qos policies force, on page 597
- clear qos statistics, on page 598
- clear radius-server statistics, on page 599
- clear radius session, on page 600
- clear rmon, on page 601
- clear route-map, on page 602
- clear routing, on page 603
- clear routing, on page 604
- clear routing ipv6, on page 605
- clear rpm pss, on page 606
- clear scheduler logfile, on page 607
- clear screen, on page 608
- clear service module slot, on page 609
- clear session state name, on page 610
- clear sflow statistics, on page 611
- clear snmp counters, on page 612
- clear snmp hostconfig, on page 613
- clear sockets statistics, on page 614
- clear spanning-tree counters, on page 615
- clear spanning-tree detected-protocols, on page 616
- clear spanning-tree sps-hist, on page 617
- clear ssh hosts, on page 618
- clear system internal forwarding pd-history, on page 619
- clear system internal forwarding pd-history bitmask, on page 620
- clear system internal forwarding unicast counters, on page 621
- clear system internal iscm packet-stats service, on page 622
- clear system internal npacl event-history, on page 623
- clear system internal orib event-history, on page 624
- clear system reset-reason, on page 625
- clear system reset-reason history, on page 626
- clear tacacs-server statistics, on page 627
- clear tech-support lock, on page 628

- clear tech-support lock, on page 629
- clear track internal info counters, on page 630
- clear user, on page 631
- clear veobc counters, on page 632
- clear vlan, on page 633
- clear vlan access-list counters, on page 634
- clear vmtracker counters, on page 635
- clear vpc statistics, on page 636
- clear vpc statistics all, on page 637
- clear vpc statistics peer-keepalive, on page 638
- clear vpc transport statistics, on page 639
- clear vrrp statistics, on page 640
- clear vrrpv3 statistics, on page 641
- clear xl, on page 642
- cli alias name, on page 643
- cli no var name, on page 644
- cli reload parsetree, on page 645
- cli show running-config local, on page 646
- cli var name, on page 647
- cli var name, on page 648
- cli var name, on page 649
- cli verifyrun, on page 650
- client-to-client reflection, on page 651
- clock-tolerance, on page 652
- clock, on page 653
- clock format, on page 654
- clock format show-timezone syslog, on page 655
- clock protocol, on page 656
- clock set, on page 657
- clock sync-interval, on page 659
- cluster-id, on page 660
- collect counter, on page 661
- collect flow sampler id, on page 662
- collect ip version, on page 663
- collect routing destination as, on page 664
- collect routing forwarding-status, on page 665
- collect routing next-hop address ipv4, on page 666
- collect routing next-hop address ipv6, on page 667
- collect routing source as, on page 668
- collect timestamp sys-uptime, on page 669
- collect transport tcp flags, on page 670
- commit, on page 671
- commit verbose, on page 672
- compress-bitfields ipv6 multicast, on page 673
- confederation identifier, on page 674
- confederation peers, on page 675

- [configure](#), on page 676
- [configure maintenance profile](#), on page 677
- [configure session](#), on page 678
- [congestion-control ecn](#), on page 679
- [congestion-control random-detect](#), on page 680
- [congestion-control random-detect global-buffer minimum-threshold](#), on page 681
- [congestion-control tail-drop](#), on page 682
- [connect](#), on page 683
- [continue](#), on page 684
- [contract-id](#), on page 685
- [control-plane](#), on page 686
- [control vlan](#), on page 687
- [controller tech-support](#), on page 688
- [controller type l2-vxlan identifier](#), on page 689
- [copp clear policy pps](#), on page 690
- [copp copy profile](#), on page 691
- [copp distributed-policing enable](#), on page 692
- [copp profile](#), on page 693
- [copp profile](#), on page 694
- [copp rate-limit disable](#), on page 695
- [copy](#), on page 696
- [copy](#), on page 697
- [copy](#), on page 698
- [copy](#), on page 699
- [copy recursive](#), on page 700
- [copy licenses](#), on page 701
- [core-on-no-memory](#), on page 702
- [core-on-no-memory](#), on page 703
- [cost](#), on page 704
- [count](#), on page 705
- [counter name](#), on page 706
- [cpu threshold](#), on page 707
- [cpu threshold rising](#), on page 708
- [crypto ca authenticate](#), on page 709
- [crypto ca crl request](#), on page 710
- [crypto ca enroll](#), on page 711
- [crypto ca export](#), on page 712
- [crypto ca import](#), on page 713
- [crypto ca import](#), on page 714
- [crypto ca lookup](#), on page 715
- [crypto ca remote ldap](#), on page 716
- [crypto ca trustpoint](#), on page 717
- [crypto cert ssh-authorize](#), on page 718
- [crypto certificatemap mapname](#), on page 719
- [crypto key generate rsa](#), on page 720
- [crypto key param rsa label](#), on page 721

- [crypto key zeroize rsa](#), on page 722
- [customer-id](#), on page 723
- [cut](#), on page 724

# callhome

callhome

## Syntax Description

callhome	Enter the callhome configuration mode
----------	---------------------------------------

## Command Mode

- /exec/configure

# callhome send configuration

callhome send configuration

## Syntax Description

callhome	callhome commands
send	send a command callhome message
configuration	configuration type

## Command Mode

- /exec

# callhome send diagnostic

callhome send diagnostic

## Syntax Description

callhome	callhome commands
send	send a command callhome message
diagnostic	dignostic command

## Command Mode

- /exec



# callhome send eem subject

callhome send eem subject <s1> body <s2>

## Syntax Description

callhome	callhome commands
send	send a command callhome message
eem	eem action email
subject	action email subject
body	action email body
<i>s1</i>	subject-text string
<i>s2</i>	body-text string

## Command Mode

- /exec

## capability additional-paths receive

[ no | default ] capability additional-paths receive [ disable ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
capability	Advertise capability to the peer
additional-paths	Additional paths capability
receive	Additional paths Receive capability
disable	(Optional) Do not advertise additional paths Receive capability

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn

## capability additional-paths send

[ no | default ] capability additional-paths send [ disable ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
capability	Advertise capability to the peer
additional-paths	Additional paths capability
send	Additional paths Send capability
disable	(Optional) Do not advertise additional paths Send capability

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn

# capability suppress 4-byte-as

[ no | default ] capability suppress 4-byte-as

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
capability	Capability
suppress	Suppress sending out capability
4-byte-as	Suppress 4-byte AS Capability

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# capture session

[no] capture session <session-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
capture	Enable packet capture on this filter for session
session	Session ID <1-48> for this session
<i>session-id</i>	Session ID <1-48> for this session

## Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl /exec/configure/macacl /exec/configure/arpacl

# carrier-delay

carrier-delay { <sec\_val> | msec <msec\_val> } | no carrier-delay

## Syntax Description

no	Negate a command or set its defaults
carrier-delay	Specify delay for interface transitions
<i>sec_val</i>	Carrier Transitions delay seconds
msec	Carrier Transitions delay milliseconds
<i>msec_val</i>	Carrier Transitions delay milliseconds

## Command Mode

- /exec/configure/if-vlan-common

## cbts-member tunnel-te

[no] cbts-member tunnel-te <tunnel-num>

### Syntax Description

no	(Optional) Negate a command or set its defaults
cbts-member	Member Tunnel
tunnel-te	Tunnel Interface
<i>tunnel-num</i>	Tunnel Interface number

### Command Mode

- /exec/configure/if-te

# cd

cd <uri0>

## Syntax Description

cd	Change current directory
<i>uri0</i>	Enter the name of the directory

## Command Mode

- /exec



# cdp advertise

cdp advertise { v1 | v2 } | no cdp advertise [ v1 | v2 ]

## Syntax Description

no	Negate a command or set its defaults
cdp	Configure CDP parameters
advertise	Highest CDP version supported on the switch
v1	CDP Version 1
v2	CDP Version 2

## Command Mode

- /exec/configure

# cdp enable

[no] cdp enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP interface parameters
enable	Enable/disable CDP on the interface

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether  
/exec/configure/if-eth-base /exec/configure/if-mgmt-ether

# cdp enable

[no] cdp enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP interface parameters
enable	Enable/disable CDP on all interfaces

## Command Mode

- /exec/configure

## cdp format device-id

[no] cdp format device-id { mac-address | serial-number | system-name }

### Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP parameters
format	Device ID format for CDP
device-id	Device ID format for CDP
mac-address	Mac-address of the Chassis
serial-number	Chassis Serial Number/OUI
system-name	System name/Fully Qualified Domain Name (Default)

### Command Mode

- /exec/configure

# cdp holdtime

[no] cdp holdtime <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP parameters
holdtime	CDP hold time advertised (in seconds)
<i>i0</i>	CDP hold time advertised (in seconds)

## Command Mode

- /exec/configure

# cdp timer

[no] cdp timer <i1>

## Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP parameters
timer	CDP refresh time interval (in seconds)
<i>i1</i>	CDP refresh time interval (in seconds)

## Command Mode

- /exec/configure

## cfs clear message-context name

cfs clear message-context name <cfs-dyn-app-name> session-id <i0>

### Syntax Description

cfs	CFS parameters
clear	clear message context
message-context	clear message context
name	clear message context for given application
<i>cfs-dyn-app-name</i>	Registered name of the local application
session-id	Seesion id of message context
<i>i0</i>	Seesion id

### Command Mode

- /exec

# cfs distribute

[no] cfs distribute

## Syntax Description

no	(Optional) Negate a command or set its defaults
distribute	Enable fabric wide distribution

## Command Mode

- /exec/configure



# cfs eth cos

{ cfs eth cos <i0> | no cfs eth cos [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
eth	ETH configurations
cos	Configure CFS Ethernet COS value
<i>i0</i>	COS Value Range

## Command Mode

- /exec/configure

# cfs eth distribute

[no] cfs eth distribute

## Syntax Description

no	(Optional) Negate a command or set its defaults
eth	ETH configurations
distribute	Enable CFS distribution over Ethernet

## Command Mode

- /exec/configure

## cfs internal

cfs internal { decrement-uncoord <i0> | decrement-unrestricted <i1> | increment-uncoord <i2> | increment-unrestricted <i3> | lock <i4> | unlock <i5> | latency-log-on | latency-log-off }

### Syntax Description

cfs	CFS parameters
internal	CFs internal database modification
decrement-uncoord	Decrement the number of uncoord distributions for the sap
<i>i0</i>	SAP of the application to be locked
decrement-unrestricted	Decrement the number of unrestricted distributions for the sap
<i>i1</i>	SAP of the application to be locked
increment-uncoord	Increment the number of uncoord distributions for the sap
<i>i2</i>	SAP of the application to be locked
increment-unrestricted	Increment the number of unrestricted distributions for the sap
<i>i3</i>	SAP of the application to be locked
lock	Lock and application instance.
<i>i4</i>	SAP of the application to be locked
unlock	UnLock a application instance.
<i>i5</i>	SAP of the application to be unlocked
latency-log-on	Enable latency logs
latency-log-off	Disable latency logs

### Command Mode

- /exec

## cfs internal cfsoe

```
cfs internal cfsoe { sap <i0> { lmi <i1> | ami <i2> | emi <i3> | reorder <i4> | send_ack <i5> | drop_packet
<i6> | iod_register <i7> } | reset { all | reassembly_q } }
```

### Syntax Description

cfs	CFS parameters
internal	CFs internal database modification
cfsoe	CFSOE IoD internal values
sap	SAP Number
<i>i0</i>	SAP Number
lmi	Least msg-id value
<i>i1</i>	Msg-id value
ami	Application msg-id value
<i>i2</i>	Msg-id value
emi	Least msg-id value
<i>i3</i>	Msg-id value
reorder	Reorder Set/Unset
<i>i4</i>	Set(1)/Unset(0)
send_ack	Send/Dont Send Ack
<i>i5</i>	Set(1)/Unset(0)
drop_packet	Drop/Dont Drop Packet
<i>i6</i>	Set(1)/Unset(0)
iod_register	Register app for IOD
<i>i7</i>	Set(1)/Unset(0)
reset	Reset globally
all	All values
reassembly_q	Set Reassembly Queue count to zero

### Command Mode

- /exec

# cfs ipv4

[no] cfs ipv4 { distribute | mcast-address <ip0> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv4	IPv4 configurations
distribute	Enable CFS distribution over IPv4
mcast-address	Configure IPv4 multicast address
<i>ip0</i>	Admin scope [239.255/16, 239.192/16-239.251/16]

## Command Mode

- /exec/configure

# cfs ipv6

```
[no] cfs ipv6 { distribute | mcast-address <ipv6> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	IPv6 configurations
distribute	Enable CFS distribution over IPv6
mcast-address	Configure IPv6 multicast address

## Command Mode

- /exec/configure

## cfs merge all-fabrics name

cfs merge all-fabrics name <cfs-dyn-app-name> [ vsan <i0> ]

### Syntax Description

cfs	CFS parameters
merge	Resolve the merge failures
all-fabrics	Fabric wide within the scope of the application
name	Application name
<i>cfs-dyn-app-name</i>	Registered name of the local application
vsan	(Optional) For logical applications only
<i>i0</i>	(Optional) Vsan Id

### Command Mode

- /exec

# cfs region

[no] cfs region <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
region	Regions to limit the distribution scope of application(s)
<i>i0</i>	Region Id

## Command Mode

- /exec/configure



# change-password

change-password [ old-password <s1> new-password <s2> ]

## Syntax Description

change-password	Change your password
old-password	(Optional) Current password for the user
<i>s1</i>	(Optional) Current password for the user (clear text)
new-password	(Optional) New password for the user
<i>s2</i>	(Optional) New password for the user (clear text)

## Command Mode

- /exec

# checkpoint

```
checkpoint { [ <name> ] [ description <descr_str> ] | file <file_uri> }
```

## Syntax Description

checkpoint	Create configuration rollback checkpoint
<i>name</i>	(Optional) Checkpoint name
file	Create configuration rollback checkpoint to file
<i>file_uri</i>	Checkpoint file path
description	(Optional) checkpoint description for the given checkpoint
<i>descr_str</i>	(Optional) checkpoint description(can include spaces)

## Command Mode

- /exec

# checkpoint

[no] checkpoint <chkpoint\_name>

## Syntax Description

no	Negate a command or set its defaults
checkpoint	Delete configuration rollback checkpoint
<i>chkpoint_name</i>	Checkpoint name

## Command Mode

- /exec

# class-map

[no] class-map [ type qos ] [ <any\_or\_all> ] <map-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	(Optional) Specify the type of this class-map
qos	(Optional) Qos class
<i>any_or_all</i>	(Optional) Enter match-any or match-all
<i>cmap-name</i>	class-map name

## Command Mode

- /exec/configure

## class-map type control-plane

[no] class-map type control-plane [ <opt\_any\_or\_all> ] <map-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
control-plane	Control-Plane
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
<i>map-name</i>	Class-map name

### Command Mode

- /exec/configure

## class-map type network-qos

[no] class-map type network-qos [ match-any ] <omap-name-nq>

### Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
network-qos	Network QoS class
match-any	(Optional) Match on any criteria
<i>omap-name-nq</i>	class-map name

### Command Mode

- /exec/configure

## class-map type psp

```
[no] class-map type psp [ <any_or_all> ] { <cmap-name-plc> | { handle <ppf_id> } } [ sequence <seq_no> ] [ client <clienttype> <clientID> ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
psp	PSP class
<i>any_or_all</i>	(Optional) Enter match-any or match-all
<i>cmap-name-plc</i>	class-map name
handle	Handle
<i>ppf_id</i>	PPF ID
sequence	(Optional) sequence
<i>seq_no</i>	(Optional) Sequence number
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID

### Command Mode

- /exec/configure

## class-map type queuing

```
[no] class-map type queuing [ <any_or_all> ] { xxx <cmap-enum-name> | <cmap-dce-name> | zzz
<cmap-name-hque> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
queuing	Queuing class
<i>any_or_all</i>	(Optional) Enter match-any
<i>cmap-enum-name</i>	
xxx	xxx
zzz	zzz
<i>cmap-dce-name</i>	Queuing class-map name
<i>cmap-name-hque</i>	Hierarchical class-map name

### Command Mode

- /exec/configure



# class-map type queuing

[no] class-map type queuing { <cmap-dce-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
queuing	Queuing class
<i>cmap-dce-name</i>	Queuing class-map name

## Command Mode

- /exec/configure

# class

```
class { < cmap-name> [ insert-before < cmap-name2> ] | class-default } | no class { < cmap-name> | class-default }
}
```

## Syntax Description

no	Negate a command or set its defaults
class	Attach class map to policy map
<i>cmap-name</i>	Class-map name
insert-before	(Optional) Insert this class before another class
<i>cmap-name2</i>	(Optional) class map name before which insertion should happen
class-default	Use class default

## Command Mode

- /exec/configure/pmap

# class

[no] class [ type qos ] <omap-name> [ insert-before [ type qos1 ] <omap-name2> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
type	(Optional) Specify the type of class
qos	(Optional) Match on Qos class
<i>omap-name</i>	class map name
insert-before	(Optional) Insert this class before another class
qos1	(Optional) Insert before Qos class
<i>omap-name2</i>	(Optional) class map name

## Command Mode

- /exec/configure/policy-map

## class \_\_inline

[no] class \_\_inline\_\_ [ type psp ] <omap-name-plc> [ insert-before <omap-name2> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
__inline__	Inline Class
type	(Optional) Specify the type of class
psp	(Optional) Match on PSP class
<i>omap-name-plc</i>	class map name
insert-before	(Optional) Insert this class before another class
<i>omap-name2</i>	(Optional) class map name

### Command Mode

- /exec/configure/policy-map/type/plc

# class class-default

[no] class class-default

## Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
class-default	System default class matching otherwise unclassified packets

## Command Mode

- /exec/configure/policy-map

## class type network-qos

[no] class type network-qos <omap-name-nq>

### Syntax Description

no	(Optional) Negate a command or set its defaults
class	Match on network-qos class-map
type	Specify the type of this class-map
network-qos	Network QoS policy
<i>omap-name-nq</i>	Match class-map name

### Command Mode

- /exec/configure/policy-map/type/uf

# class type network-qos class-default

[no] class type network-qos class-default

## Syntax Description

no	(Optional) Negate a command or set its defaults
class	Match on network-qos class-map
type	Specify the type of this class-map
network-qos	Network QoS policy
class-default	System default class matching otherwise not classified cos values

## Command Mode

- /exec/configure/policy-map/type/uf

## class type psp

```
[no] class type psp { <omap-name-plc> | { handle1 <ppf_id1> } } [ insert-before { <omap-name2> | { handle2 <ppf_id2> } } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
type	Specify the type of class
psp	Match on PSP class
<i>omap-name-plc</i>	class map name
handle1	Handle1
<i>ppf_id1</i>	PPF ID1
insert-before	(Optional) Insert this class before another class
<i>omap-name2</i>	(Optional) class map name
handle2	(Optional) Handle2
<i>ppf_id2</i>	(Optional) PPF ID2

### Command Mode

- /exec/configure/policy-map/type/plc



# class type queuing

```
[no] class type queuing { xxx <cmap-enum-name> | <cmap-dce-name> | zzz <cmap-name-hque> } [
insert-before type queuing1 yyy <xcmap-enum-name> ]
```

## Syntax Description

xxx	xxx
yyy	(Optional) yyy
zzz	zzz
no	(Optional) Negate a command or set its defaults
class	Policy Criteria
type	Specify the type of class
queuing	Match on Queuing class
<i>cmap-enum-name</i>	
<i>cmap-dce-name</i>	Queuing class-map name
<i>cmap-name-hque</i>	Hierarchical class-map name
insert-before	(Optional) Insert this class before another class
queuing1	(Optional) Insert before Queuing class
<i>xcmap-enum-name</i>	(Optional)

## Command Mode

- /exec/configure/policy-map/type/queuing

# clean ip bfd

clean ip bfd

## Syntax Description

clean	Clean internal datastructures
ip	IP related information
bfd	clean ip bfd datastructures

## Command Mode

- /exec

# clean ipv6 bfd

clean ipv6 bfd

## Syntax Description

clean	Clean internal datastructures
ipv6	IPV6 related information
bfd	clean ip bfd datastructures

## Command Mode

- /exec

# clear

```
clear { ipv6 | ip } rip statistics [ * | <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
ip	Clear IP commands
rip	Routing Information Protocol (RIP)
statistics	Clear RIP statistics
*	(Optional) RIP statistics for all interfaces
<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

## Command Mode

- /exec

# clear topology

```
clear { { ip eigrp [ <eigrp-ptag> ] topology { { <address> <mask> } | { <prefix> } } [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } | { ipv6 eigrp [ <eigrp-ptag> ] topology { <ipv6-prefix> } [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } }
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
topology	Clear IP-EIGRP topology table entry
<i>address</i>	Network to display information about
<i>mask</i>	Network mask
<i>prefix</i>	IP prefix <network>/<length>, e.g., 192.168.0.0/16
<i>eigrp-ptag</i>	(Optional)

## Command Mode

- /exec

## clear eigrp events

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] events [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
events	Clear IP-EIGRP event logs

### Command Mode

- /exec

# clear logging

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] logging [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
logging	Stop IP-EIGRP event logging

## Command Mode

- /exec

## clear (vrf)

```
clear { { ip eigrp [ <eigrp-ptag> ] neighbors { * | <address> | <interface> } [ soft ] [ no-goodbye ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] } | { ipv6 eigrp [ <eigrp-ptag> ] neighbors { * | <ipv6-addr> |
<interface> } [ soft ] [ no-goodbye ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } }
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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	Clear EIGRP neighbors
*	Clear all EIGRP neighbors
<i>address</i>	IP-EIGRP neighbor address
<i>interface</i>	Interface
soft	(Optional) Soft reset
no-goodbye	(Optional) No goodbye
<i>eigrp-ptag</i>	(Optional)

### Command Mode

- /exec



# clear eigrp accounting

clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] accounting [ vrf { <vrf-name> | <vrf-known-name> | all } ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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	Clear IP-EIGRP accounting statistics

## Command Mode

- /exec

## clear eigrp traffic

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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	Clear IP-EIGRP traffic statistics

### Command Mode

- /exec

# clear eigrp event-history

clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] event-history [ fsm | packet | rib | cli | all ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Clear the event history buffers
fsm	(Optional) FSM log of EIGRP
packet	(Optional) Packet log of EIGRP
rib	(Optional) RIB log of EIGRP
cli	(Optional) EIGRP CLI related events
all	(Optional) All event history buffers

## Command Mode

- /exec

## clear eigrp

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</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
redistribution	Clear EIGRP redistributed information

### Command Mode

- /exec

## clear access-list counters

```
clear [ <ip_ipv6_mac> ] access-list counters [ <name> ]
```

### Syntax Description

clear	Reset functions
<i>ip_ipv6_mac</i>	(Optional) IP/IPv6/MAC
access-list	Clear access list statistical information
counters	Clear access list counters
<i>name</i>	(Optional) List name

### Command Mode

- /exec

## clear (keystore | sksd)

clear { keystore | sksd } [ <index> | <name> ]

### Syntax Description

clear	Reset functions
keystore	Clear all records in the keystore
sksd	Clear all records in the keystore/sksd-chip
<i>index</i>	(Optional) Clear secret at index <index>
<i>name</i>	(Optional) Clear secret with name <name>

### Command Mode

- /exec

# clear ipv6

```
clear { { ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] | { routing [ vrf { <vrf-name> | <vrf-known-name> } ] ipv6 [ unicast ] [ topology <topology-name> ] } } { <all> | { { <ipv6-addr> | <ipv6-prefix> } [ <nh-addr> <nh-interface> ] } } [ no-ufdm ]
```

## Syntax Description

clear	Reset functions
route	Clear routing information
routing	Clear routing information
vrf	(Optional) Clear 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	Clear IPv6 commands
unicast	(Optional) Clear unicast information
topology	(Optional) Clear per-topology information
<i>topology-name</i>	(Optional) Topology name
all	Clear all routes
<i>nh-interface</i>	(Optional) Interface Name
no-ufdm	(Optional) Do not tell UFDm about the change

## Command Mode

- /exec

## clear all

```
clear { { ip route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] | { routing [ vrf { <vrf-name> | <vrf-known-name> } ] [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] } } { <all> | { { <ip-addr> | <ip-prefix> } [ <nh-addr> | <nh-addr-v6> ] [ <nh-interface> ] } } [ no-ufdm ]
```

### Syntax Description

clear	Reset functions
route	Clear routing information
routing	Clear routing information
vrf	(Optional) Clear per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Clear unicast information
topology	(Optional) Clear per-topology information
<i>topology-name</i>	(Optional) Topology name
all	Clear all routes
<i>ip-addr</i>	Clear single host route
<i>ip-prefix</i>	Clear single exact match route
<i>nh-addr</i>	(Optional) Clear single path
<i>nh-interface</i>	(Optional) Interface Name
no-ufdm	(Optional) Do not tell UFDm about the change

### Command Mode

- /exec



## clear access-list hardware counters

clear access-list hardware counters [ module <module> ]

### Syntax Description

clear	Reset functions
access-list	Clear access list statistical information
hardware	hardware information
counters	Clear access list counters
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

### Command Mode

- /exec

# clear accounting log

clear accounting log

## Syntax Description

clear	Reset functions
accounting	Clear accounting log(s) in all vdc's
log	Clear the accounting log(s) in all vdc's

## Command Mode

- /exec

# clear bfd statistics

clear bfd statistics

## Syntax Description

clear	Clear
bfd	bfd
statistics	statistics

## Command Mode

- /exec

## clear bgp

```
clear bgp { ipv4 { unicast | multicast } policy statistics { { redistribute [ { { eigrp | isis | ospf | rip } <tag> } |
static | direct | amt | lisp ] } | { neighbor <neighbor-id> [ default-originate | { route-map | filter-list | prefix-list
} { in | out } ] } | { dampening } | { network { <ip-addr> mask <ip-mask> | <ip-prefix> } } | { aggregate-address
{ <ip-addr> <ip-mask> | <ip-prefix> } { suppress-map | advertise-map } } } | { } unicast policy statistics {
neighbor <neighbor-id> [ { route-map | filter-list | prefix-list } { in | out } ] } | ipv6 { unicast | multicast }
policy statistics { { redistribute [ { { eigrp | isis | ospfv3 | rip } <tag> } | static | direct | amt | lisp ] } | { neighbor
{ <neighbor-id> | <ipv6-neighbor-id> } [ default-originate | { route-map | filter-list | prefix-list } { in | out }
] } | { dampening } | { network <ipv6-prefix> } | { aggregate-address <ipv6-prefix> { suppress-map |
advertise-map } } } }
```

### Syntax Description

clear	Reset functions
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
bgp	Clear BGP sessions
unicast	Clear unicast address-family
multicast	Clear multicast address-family
policy	Clear policy related information
statistics	Clear Route Filter statistics
redistribute	Statistics for redistribution
isis	(Optional) ISO IS-IS
ospf	(Optional) Open Shortest Path First (OSPF)
ospfv3	(Optional) Open Shortest Path First v3
rip	(Optional) Routing Information Protocol
eigrp	(Optional) Enhanced Interior Gateway Protocol
static	(Optional) Static routes
direct	(Optional) Directly connected
amt	(Optional) AMT anycast prefix
lisp	(Optional) LISP EID-prefixes in the non-default VRF
tag	(Optional) Source protocol tag
neighbor	Clear neighbor specific counters
neighbor-id	Neighbor IPv4 address

route-map	(Optional) Neighbor route-map
prefix-list	(Optional) Neighbor prefix-list
filter-list	(Optional) Neighbor filter-list
out	(Optional) Outbound policy
in	(Optional) Inbound policy
default-originate	(Optional) Default-originate policy
dampening	Clear dampening info
network	Configured IP prefix to advertise
aggregate-address	Configured BGP aggregate prefixes
suppress-map	Statistics of suppress policy
advertise-map	Statistics of advertise policy
<i>ip-addr</i>	IP network advertised
mask	Configured mask of the IP prefix advertised
<i>ip-mask</i>	Dotted 4-octet mask
<i>ip-prefix</i>	IP prefix in CIDR format

### Command Mode

- /exec

## clear bgp event-history

clear bgp event-history { <bgp-event-hist> | detail | all | msgs }

### Syntax Description

clear	Reset functions
bgp	Clear BGP sessions
event-history	Clear event-history buffers
<i>bgp-event-hist</i>	Event History
detail	Show detailed event logs
all	All event history buffers
msgs	Clear message logs of BGP

### Command Mode

- /exec

# clear bootvar log

clear bootvar log

## Syntax Description

clear	Reset functions
bootvar	Clear the bootvar log
log	Clear the bootvar log

## Command Mode

- /exec

# clear cdp

```
clear cdp { counters [ interface <if0> ] | table [ interface1 <if1> ] }
```

## Syntax Description

clear	Reset functions
cdp	Cisco Discovery Protocol
counters	Clear CDP counters on all interfaces
interface	(Optional) Clear CDP counters on an interface
<i>if0</i>	(Optional)
table	Clear CDP cache on all interfaces
interface1	(Optional) Clear CDP cache on an interface
<i>if1</i>	(Optional)

## Command Mode

- /exec



# clear checkpoint database

clear checkpoint database [ user | system ]

## Syntax Description

clear	Reset functions
checkpoint	Clear configuration rollback checkpoint
database	Clear configuration rollback checkpoint database
user	(Optional) Clear configuration rollback checkpoint database for user checkpoints
system	(Optional) Clear configuration rollback checkpoint database for system checkpoints

## Command Mode

- /exec

# clear copp statistics

clear copp statistics

## Syntax Description

clear	Reset functions
copp	Clear policy information for copp
statistics	Clear statistics

## Command Mode

- /exec

# clear cores

clear cores

## Syntax Description

clear	Reset functions
cores	clear all core dumps for the switch

## Command Mode

- /exec

# clear cores archive

clear cores archive [ file <s0> ]

## Syntax Description

clear	Reset functions
cores	clear all cores for this vdc
archive	clear all core dump files for this vdc from logflash on this module
file	(Optional) delete a core file on logflash
s0	(Optional) Name of file in directory 'core'

## Command Mode

- /exec

# clear counters

clear counters

## Syntax Description

clear	Reset functions
counters	Clear counters

## Command Mode

- /exec

## clear counters buffers

```
clear counters buffers [ module <module> [ instance <instance> ] ] [ __readonly__ ]
```

### Syntax Description

clear	Reset functions
counters	Clear counters
buffers	Clear system buffer max cell usage counter
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>instance</i>	(Optional) ASIC Instance Number in Decimal
__readonly__	(Optional) Read Only

### Command Mode

- /exec

# clear counters interface

clear counters interface <ifindex>

## Syntax Description

clear	Reset functions
counters	Clear counters
interface	Clear interface counters
<i>ifindex</i>	Clear interface counters

## Command Mode

- /exec

# clear counters interface all

clear counters interface all

## Syntax Description

clear	Reset functions
counters	Clear counters
interface	Clear interface counters
all	Clear all interface counters

## Command Mode

- /exec



# clear counters mpls strip

clear counters mpls strip

## Syntax Description

clear	Reset functions
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
counters	stats/counters for labels

## Command Mode

- /exec

# clear dot1x all

```
{ clear dot1x all } | { clear dot1x interface <if> }
```

## Syntax Description

clear	Reset functions
dot1x	dot1x configuration commands
all	authenticator instances on all interfaces
<i>if</i>	target interface

## Command Mode

- /exec

# clear evb

clear evb { hosts | vsi } [ force-standby ] \*

## Syntax Description

clear	Reset functions
evb	EVB (Edge Virtual Bridge)
hosts	Clear EVB host information
vsi	Clear EVB vsi information
force-standby	(Optional) Force to clear standby entries
*	Clear all entries (Should be a * character)

## Command Mode

- /exec

## clear evb

```
clear evb { hosts | vsi } [ force-standby ] [ { [ mac <mac-addr> | interface <intf-name> | vlan <vlan-id> | vni
<vni-id> | ip <ip-addr> | ipv6 <ipv6-addr> ] + } ]
```

### Syntax Description

clear	Reset functions
evb	EVB (Edge Virtual Bridge)
hosts	Clear EVB host information
vsi	Clear EVB vsi information
force-standby	(Optional) Force to clear standby entries
mac	(Optional) Clear entries by filtering MAC address
<i>mac-addr</i>	(Optional) MAC Address
interface	(Optional) Clear entries by filtering interface
<i>intf-name</i>	(Optional) Interface name
vlan	(Optional) Clear entries by filtering VLAN
<i>vlan-id</i>	(Optional) VLAN ID
vni	(Optional) Clear entries by filtering VNI
<i>vni-id</i>	(Optional) VNI
ip	(Optional) Clear entries by filtering IP address
ipv6	(Optional) Clear entries by filtering IPv6 address
<i>ip-addr</i>	(Optional) IPv4 host address

### Command Mode

- /exec

# clear evb internal adjacency

clear evb internal adjacency

## Syntax Description

clear	Reset functions
evb	EVB (Edge Virtual Bridge)
internal	Clear EVB internal information
adjacency	Clear EVB adjacency state

## Command Mode

- /exec

## clear evb internal event-history

```
clear evb internal event-history { all | <evt-hist-subsystem> }
```

### Syntax Description

clear	Reset functions
evb	Clear EVB information
internal	Clear EVB internal information
event-history	Clear EVB event history buffers
all	All EVB logs
<i>evt-hist-subsystem</i>	EVB event history buffers

### Command Mode

- /exec

# clear evb statistics

clear evb statistics

## Syntax Description

clear	Reset functions
evb	EVB (Edge Virtual Bridge)
statistics	Clear EVB Statistics

## Command Mode

- /exec

## clear fabric database dci vrf

```
clear fabric database dci vrf { <vrf-name> | <vrf-known-name> } node-id <mgmt-ip-address> [ peer-id
<peer-ip-address> ]
```

### Syntax Description

clear	Reset functions
fabric	Fabric
database	Fabric Database
dci	DCI profile
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
node-id	management ip address of this node
<i>mgmt-ip-address</i>	IP address in CIDR format
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format

### Command Mode

- /exec



## clear fabric database host

```
{ clear fabric database host { all | { vni <vni-id> } | { dot1q <vlan-id> } } [ re-sync ] } | { clear fabric database host vni <vni-id> re-apply } | { clear fabric database client uuid <uuid> }
```

### Syntax Description

clear	Reset functions
fabric	
database	
host	Active Host to profile mapping
vni	Virtual Network Identifier
<i>vni-id</i>	
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	
re-apply	Download new config parameters and re-apply
re-sync	(Optional) Force to sync the host entry
all	Remove all entries
client	Auto-config client
uuid	Auto-config client UUID
<i>uuid</i>	UUID

### Command Mode

- /exec

# clear fabric database host statistics

clear fabric database host statistics

## Syntax Description

clear	Reset functions
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
statistics	Statistics

## Command Mode

- /exec

## clear fabric database include-vrf

clear fabric database include-vrf <vrf-name>

### Syntax Description

clear	Reset functions
fabric	
database	
include-vrf	Include VRF name
<i>vrf-name</i>	VRF name

### Command Mode

- /exec

## clear fabric database statistics

```
clear fabric database statistics [ type { network | profile | cabling | partition | bl-dci } [ server-proto ldap { ip
<ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] ]
```

### Syntax Description

clear	Reset functions
fabric	Fabric
database	Clear Fabric Database
statistics	Clear database statistics
type	(Optional) Enter database type
network	(Optional) Network Database
profile	(Optional) Port or Switch Profile Database
cabling	(Optional) Cable Management Database
partition	(Optional) Partition Database
bl-dci	(Optional) Border Leaf - DCI
server-proto	(Optional) Enter database protocol
ldap	(Optional) Use LDAP
ip	(Optional) IP address of server
<i>ipaddr</i>	(Optional) Enter IP address of server
host	(Optional) Hostname of server
<i>hostname</i>	(Optional) Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

## clear fabric database statistics type

```
clear fabric database statistics type { network | profile | cabling | partition | bl-dci } server-proto xmpp { ip
<ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

clear	Reset functions
fabric	Fabric
database	Clear Fabric Database
statistics	Clear database statistics
type	Enter database type
network	Network Database
profile	Port or Switch Profile Database
cabling	Cable Management Database
partition	Partition Database
bl-dci	Border Leaf - DCI
server-proto	Enter database protocol
xmpp	Use XMPP
ip	IP address of server
<i>ipaddr</i>	Enter IP address of server
host	Hostname of server
<i>hostname</i>	Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

# clear fabric database statistics type server-proto radius group

clear fabric database statistics type { network | profile | cabling | partition | bl-dci } server-proto radius group <groupname>

## Syntax Description

clear	Reset functions
fabric	Fabric
database	Clear Fabric Database
statistics	Clear database statistics
type	Enter database type
network	Network Database
profile	Port or Switch Profile Database
cabling	Cable Management Database
partition	Partition Database
bl-dci	Border Leaf - DCI
server-proto	Enter database protocol
radius	Use RADIUS
group	AAA group
<i>groupname</i>	Enter AAA group name of servers

## Command Mode

- /exec

# clear flow exporter

clear flow exporter [ name ] <exportername>

## Syntax Description

clear	Reset functions
flow	NetFlow information
exporter	Clear NetFlow exporter statistics
name	(Optional) The name of the exporter
<i>exportername</i>	Specify an exporter

## Command Mode

- /exec

# clear flow monitor

clear flow monitor [ name ] <monitorname> [ cache [ force-export ] | statistics ]

## Syntax Description

clear	Reset functions
flow	NetFlow information
monitor	Clear monitor cache and statistics
name	(Optional) The name of the monitor
<i>monitorname</i>	Specify a monitor
cache	(Optional) Clear only monitor cache contents
force-export	(Optional) Force the cache entries to be exported
statistics	(Optional) Clear only the monitor cache statistics

## Command Mode

- /exec



# clear forwarding

```
clear forwarding [ ip | ipv4 ] adjacency mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ <aif> ] [ <anh> ]
```

## Syntax Description

clear	Reset functions
forwarding	forwarding
adjacency	display adjacency information
mpls	mpls adjacency information
stats	Clear adjacency statistics
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
ip	(Optional) ipv4
ipv4	(Optional) ipv4
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop

## Command Mode

- /exec

## clear forwarding cumulative counter

clear forwarding cumulative counter [ all | v4\_ucast\_add | v4\_ucast\_del | v6\_ucast\_add | v6\_ucast\_del ] [ module <module> ]

### Syntax Description

clear	clear
forwarding	forwarding information
cumulative	accumulated prefix add/delete count
counter	counter
all	(Optional) all
v4_ucast_add	(Optional) IPv4 unicast route add count
v4_ucast_del	(Optional) IPv4 unicast route delete count
v6_ucast_add	(Optional) IPv6 unicast route add count
v6_ucast_del	(Optional) IPv6 unicast route delete count
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# clear forwarding internal message counts

clear forwarding internal message counts [ module <module> ]

## Syntax Description

clear	clear
forwarding	display fib information
internal	internal information
message	display internal message counts
counts	display internal message counts
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

## clear forwarding internal unicast counts

```
clear forwarding internal unicast counts [ vdc { <vdc_id> | all } ] [ module <module> ] [ __readonly__ ]
```

### Syntax Description

clear	
forwarding	display fib information
internal	internal information
unicast	unicast counters
counts	display counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc id
all	(Optional) all VDCs active on the module
__readonly__	(Optional)

### Command Mode

- /exec

## clear forwarding ipv4 multicast counters

```
clear forwarding ipv4 multicast counters [ vrf { <vrf-name> | <vrf-known-name> | all } ] { [ group <gaddr>
[ source <saddr> ] ] | [ source <saddr> [ group <gaddr> ] ] } [ module <module> ]
```

### Syntax Description

clear	
forwarding	fib information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv4	Ipv4
multicast	Multicast IPv4 information
counters	
group	(Optional) Multicast IPv4 Group specific info
<i>gaddr</i>	(Optional) Multicast IPv4 Group Address
source	(Optional) Multicast IPv4 Source specific info
<i>saddr</i>	(Optional) Multicast IPv4 Source Address
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

## clear forwarding ipv6 adjacency mpls stats

```
clear forwarding ipv6 adjacency mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ <aif> ] [ <anh> ]
```

### Syntax Description

clear	Reset functions
forwarding	forwarding
ipv6	ipv6
adjacency	adjacency information
mpls	mpls adjacency information
stats	Clear adjacency statistics
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
<i>aif</i>	(Optional) adjacency output interface

### Command Mode

- /exec

## clear forwarding ipv6 multicast counters

```
clear forwarding ipv6 multicast counters [ vrf { <vrf-name> | <vrf-known-name> | all } ] { [ group <gaddr>
[ source <saddr> ] ] | [ source <saddr> [ group <gaddr> ] ] } [ module <module> ]
```

### Syntax Description

clear	
forwarding	fib information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Ipv6
multicast	Multicast IPv6 information
counters	
group	(Optional) Multicast IPv6 Group specific info
source	(Optional) Multicast IPv6 Source specific info
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

## clear forwarding l2mcast info statistics

clear forwarding l2mcast info statistics [ module <num> ]

### Syntax Description

clear	Clear all entries
forwarding	Forwarding Information
l2mcast	Layer-2 multicast
info	L2mcast Internal Info
statistics	L2mcast Internal Info Statistics
module	(Optional) Slot
<i>num</i>	(Optional) Slot number

### Command Mode

- /exec



# clear forwarding l2vpn trace member-history

clear forwarding l2vpn trace member-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
l2vpn	L2VPN
trace	internal trace
member-history	member history

## Command Mode

- /exec

# clear forwarding mpls drop-stats

clear forwarding mpls drop-stats

## Syntax Description

clear	Clear Statistics
forwarding	forwarding
mpls	mpls forwarding
drop-stats	Clear dropped packets stats

## Command Mode

- /exec

## clear forwarding mpls stats

```
clear forwarding mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ [ label
<label> | <prefix> | <v6prefix> ] ] [ label-space <label-space-id> ] [ module <module> ]
```

### Syntax Description

clear	Reset functions
forwarding	forwarding
mpls	mpls
stats	Clear Statistics
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
label-space	(Optional) label space
<i>label-space-id</i>	(Optional) label space id
label	(Optional) mpls labels
<i>label</i>	(Optional) mpls label value
<i>prefix</i>	(Optional) Labels for single exact match route
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

## clear forwarding mpls trace adj-history

clear forwarding mpls trace adj-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
mpls	mpls
trace	internal trace
adj-history	adjacency history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# clear forwarding mpls trace ecmp-history

clear forwarding mpls trace ecmp-history [ module <module> ]

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
mpls	mpls
trace	internal trace
ecmp-history	ECMP history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# clear forwarding mpls trace label-history

clear forwarding mpls trace label-history [ module <module> ]

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
mpls	mpls
trace	internal trace
label-history	label history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# clear forwarding mpls trace te-history

clear forwarding mpls trace te-history [ module <module> ]

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
mpls	mpls
trace	internal trace
te-history	TE history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

## clear forwarding trace ecmp-history

clear forwarding trace ecmp-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
ecmp-history	ECMP history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec



# clear forwarding trace mfib oif-history

clear forwarding trace mfib oif-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	mfib entries
oif-history	oif history

## Command Mode

- /exec

# clear forwarding trace mfib oiflist-history

clear forwarding trace mfib oiflist-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	mfib entries
oiflist-history	oiflist history

## Command Mode

- /exec

# clear forwarding trace mfib oiv oif-history

clear forwarding trace mfib oiv oif-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	mfib entries
oiv	oiv entries
oif-history	oif history

## Command Mode

- /exec

# clear forwarding trace mfib otv oiflist-history

clear forwarding trace mfib otv oiflist-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	mfib entries
otv	otv entries
oiflist-history	oiflist history

## Command Mode

- /exec

# clear forwarding trace mfib otv v4-route-history

clear forwarding trace mfib otv v4-route-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	mfib entries
otv	otv entries
v4-route-history	v4 route history

## Command Mode

- /exec

# clear forwarding trace mfib otv v6-route-history

clear forwarding trace mfib otv v6-route-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	mfib entries
otv	otv mfib entries
v6-route-history	v6 route history

## Command Mode

- /exec

# clear forwarding trace mfib platform oiflist-history

clear forwarding trace mfib platform oiflist-history

## Syntax Description

clear	Clear
forwarding	Forwarding information
trace	internal trace
mfib	mfib entries
platform	platform information
oiflist-history	Oiflist history

## Command Mode

- /exec

# clear forwarding trace mfib v4-route-history

clear forwarding trace mfib v4-route-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	clear mfib entries
v4-route-history	v4 route history

## Command Mode

- /exec



# clear forwarding trace mfib v6-route-history

clear forwarding trace mfib v6-route-history

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
mfib	mfib entries
v6-route-history	v6 route history

## Command Mode

- /exec

## clear forwarding trace nve-l3-vni-history

clear forwarding trace nve-l3-vni-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
nve-l3-vni-history	NVE L3 VNI history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# clear forwarding trace nve-peer-history

clear forwarding trace nve-peer-history [ module <module> ]

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
nve-peer-history	NVE peer history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

## clear forwarding trace otv-adj-history

clear forwarding trace otv-adj-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
otv-adj-history	otv adj history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# clear forwarding trace otv-vlan-history

clear forwarding trace otv-vlan-history [ module <module> ]

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
otv-vlan-history	otv vlan prefix history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

## clear forwarding trace v4-adj-history

clear forwarding trace v4-adj-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
v4-adj-history	V4 adjacency history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

## clear forwarding trace v4-pfx-history

clear forwarding trace v4-pfx-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
v4-pfx-history	V4 prefix history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

## clear forwarding trace v4-rnh-history

clear forwarding trace v4-rnh-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
v4-rnh-history	V4 rnh history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec



# clear forwarding trace v6-adj-history

clear forwarding trace v6-adj-history [ module <module> ]

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
v6-adj-history	V6 adjacency history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

## clear forwarding trace v6-pfx-history

clear forwarding trace v6-pfx-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
v6-pfx-history	V6 prefix history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

## clear forwarding trace v6-rnh-history

clear forwarding trace v6-rnh-history [ module <module> ]

### Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
v6-rnh-history	V6 rnh history
module	(Optional) slot
<i>module</i>	(Optional) slot number

### Command Mode

- /exec

# clear forwarding trace vobj-history

clear forwarding trace vobj-history [ module <module> ]

## Syntax Description

clear	Clear bintrace entries
forwarding	forwarding
trace	internal trace
vobj-history	vobj history
module	(Optional) slot
<i>module</i>	(Optional) slot number

## Command Mode

- /exec

# clear frame traffic

clear frame traffic

## Syntax Description

clear	Reset functions
frame	Clear layer-2 frame statistics to/from the Route Processor
traffic	Clear layer-2 frame statistics to/from the Route Processor

## Command Mode

- /exec

# clear fs-daemon log

clear fs-daemon log

## Syntax Description

clear	Reset functions
fs-daemon	Clear the fs daemon log
log	Clear the fs daemon log

## Command Mode

- /exec

# clear hardware

```
clear hardware [ forwarding ] ip verify { all | address { source { broadcast | multicast } | class-e | destination
{ zero } | identical | reserved } | checksum | protocol | fragment | length { minimum | consistent | maximum {
max-frag | udp | max-tcp } } | tcp { tiny-frag } | version } [ module <module> ]
```

## Syntax Description

clear	Reset functions
hardware	Show hardware information
forwarding	(Optional) Show hardware information for forwarding path
ip	IPv4 and IPv6 protocols
verify	IP packet validation checks in hardware
class-e	Class E IDS check
all	All IP packet validation checks
address	IPv4 and IPv6 Source and destination address validation
source	Check source address
broadcast	Source address is 255.255.255.255
multicast	Source address is 224.x.x.x
destination	Check destination address
zero	Destination address is 0.0.0.0
identical	Same IP SA and DA
reserved	Source address is 127.x.x.x
checksum	Verify IPv4 and IPv6 packet checksum
protocol	Verify IP protocol
fragment	Check IPv4 and IPv6 fragment with non-zero offset and DF bit active
length	Validate IPv4 packet header and payload length
minimum	Minimum IPv4 header length
consistent	Actual frame size is equal to or more than IPv4 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value

udp	Maximum UDP length has to be less than IPv4 payload length
max-tcp	Maximum TCP length has to be less than IPv4 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 4 for an ethertype of IPv4 (0x0800)
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

**Command Mode**

- /exec



# clear hardware flow ip

```
clear hardware flow ip [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

## Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
ip	Internet Protocol Version 4
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

## clear hardware flow ipmac

```
clear hardware flow ipmac [ { { profile <prof_id> } | { vlan <vlan_id> } | { interface <interface> } } ] [
instance <inst> ] [ module <num> ]
```

### Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
ipmac	IPv4+MAC
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

### Command Mode

- /exec

# clear hardware flow ipv6

```
clear hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

## Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
ipv6	Internet Protocol Version 6
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

## clear hardware flow l2

```
clear hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ force-export ] [ module <num> ]
```

### Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
l2	Layer 2 Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

### Command Mode

- /exec

# clear hardware flow mpls

```
clear hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

## Syntax Description

clear	Reset functions
hardware	Show hardware information
flow	Netflow Module
mpls	MPLS Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# clear hardware internal forwarding adjacency statistics default-route

clear hardware internal forwarding adjacency statistics default-route [ module <module> ]

## Syntax Description

clear	Show running system information
hardware	SHOW_HW_HELP
internal	SHOW_HW_INT_HELP
forwarding	Show hardware information for forwarding Asic
adjacency	display adjacency utilization
statistics	Show hardware statistics
default-route	Show for adjacency of default route
module	(Optional) slot
<i>module</i>	(Optional) Slot/module number

## Command Mode

- /exec

# clear hardware internal forwarding l3 counters

clear hardware internal forwarding l3 counters [ module <module> ]

## Syntax Description

clear	clear running system information
hardware	clear hardware usage settings
internal	SHOW_HW_INT_HELP
forwarding	clear forwarding related settings
l3	Layer-3
counters	clear Layer-3 Counters
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

## Command Mode

- /exec

## clear hardware internal interface-all asic counters

clear hardware internal interface-all asic counters [ module <module> ]

### Syntax Description

clear	Reset functions
hardware	Show hardware information
internal	Show hardware internal information
interface-all	Clear counters for front panel and fabric interfaces
asic	Clear interface asic counters
counters	Clear interface counters
module	(Optional) Limit clear to single module
<i>module</i>	(Optional) Slot/module number

### Command Mode

- /exec



# clear hardware internal ns interrupts

clear hardware internal ns interrupts

## Syntax Description

clear	Reset functions
hardware	Clear hardware information
internal	Clear hardware internal information
ns	Northstar
interrupts	Interrupts

## Command Mode

- /exec

## clear hardware rate-limiter

```
clear hardware rate-limiter { all | layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 <l2-opts> | <opts>
| f1 <f1-opts> } [ module <module> ]
```

### Syntax Description

clear	Reset functions
hardware	Show hardware information
rate-limiter	Clear Rate-Limiter statistics
all	Clear all Rate-Limiter statistics
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
f1	Control packets from F1 modules to supervisor
<i>f1-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

### Command Mode

- /exec

# clear hsrp counters

clear hsrp counters [ <value> ] | clear hsrp state-history [ interface <interface-id> ] [ group <group-id> ]

## Syntax Description

clear	Reset functions
hsrp	HSRP commands
counters	Internal counters
<i>value</i>	(Optional) Counter to be cleared
state-history	Clear Groups' state history
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
group	(Optional) Group number
<i>group-id</i>	(Optional) Group Number

## Command Mode

- /exec

# clear icmpv6 cache

```
clear icmpv6 cache { { interface [ <intf> ] } }
```

## Syntax Description

clear	Reset functions
icmpv6	ICMPv6 Commands
cache	Clear icmpv6 cache
interface	Clear icmpv6 interface information
<i>intf</i>	(Optional) Interface name to clear

## Command Mode

- /exec

# clear install all failed-standby

clear install all failed-standby

## Syntax Description

clear	Reset functions
install	Clear the installer log
all	Clear the install all log
failed-standby	Clear the failed-standby log

## Command Mode

- /exec

# clear install failure-reason

clear install failure-reason

## Syntax Description

clear	Reset functions
install	Clear the installer log
failure-reason	Clear the install failure-reason log

## Command Mode

- /exec

# clear install log-history

clear install log-history { all | oldest <i0> }

## Syntax Description

clear	Reset functions
install	Install related show commands
log-history	Patch installer historical logs
all	Delete complete history log
oldest	oldest Delete the oldest <n> install log-history points
<i>i0</i>	Number of log-history points to delete

## Command Mode

- /exec

# clear install status

clear install status

## Syntax Description

clear	Reset functions
install	Clear the installer log
status	Clear the installer status log

## Command Mode

- /exec



# clear ip adjacency

```
clear ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <ip-addr> | * } no-ufdm
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
adjacency	Clear Adjacency
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	IPV4 source address
*	Delete all adjacency in this context
no-ufdm	Create inconsistency in adjacency

## Command Mode

- /exec

# clear ip adjacency cache

```
clear ip adjacency cache { { interface [ <intf> ] } }
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
adjacency	Configure Adjmgr
cache	Clear adjacency cache
interface	Clear adjacency interface information
<i>intf</i>	(Optional) Interface name to clear

## Command Mode

- /exec

# clear ip adjacency statistics

clear ip adjacency statistics

## Syntax Description

clear	Reset functions
ip	Clear IP commands
adjacency	Clear Adjacency
statistics	Clear Adjacency Statistics

## Command Mode

- /exec

# clear ip amt tunnel

```
clear ip amt tunnel [ <address4> <port> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

clear	AMT clear commands
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)
<i>port</i>	(Optional)

## Command Mode

- /exec

# clear ip arp

clear ip arp [ <interface> | <ip-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ force-delete ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
<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) Clear ARP entries for all vrfs
force-delete	(Optional) Clear the entries from ARP table without refresh

## Command Mode

- /exec

# clear ip arp cache

```
clear ip arp cache { { interface [ <intf> ] } }
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	arp
cache	Clear arp cache
interface	Clear arp interface information
<i>intf</i>	(Optional) Interface name to clear

## Command Mode

- /exec

# clear ip arp event-history

clear ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors | client-event | client-errors | snmp | cli | suppression-event | suppression-errors | all } [ dump-to-file ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	ARP events
event-history	Clear the event history buffers
packet	inst packet logs
event	Internal event logs
sync-event	CFS and MCECM related event logs
ip-sync-event	L3 over vpc related event logs
control	ARP control event logs
ha	HA and GR logs
errors	inst error logs
lcache	lcache logs
lcache-errors	lcache_error logs
client-event	Client_event logs
client-errors	Client_error logs
cli	clear cli logs
snmp	SNMP logs
suppression-event	ARP suppression event logs
suppression-errors	ARP suppression error logs
all	All event history buffers
dump-to-file	(Optional) Dump the Arp event history logs into the file

## Command Mode

- /exec

# clear ip arp inspection log

clear ip arp inspection log

## Syntax Description

clear	Reset functions
ip	Clear ip counters
arp	Clear State of ARP features
inspection	Clear State of ARP Inspection
log	Log Buffer

## Command Mode

- /exec



# clear ip arp inspection statistics vlan

clear ip arp inspection statistics vlan <vlan-id>

## Syntax Description

clear	Reset functions
ip	Clear ip counters
arp	Clear State of ARP features
inspection	Clear State of ARP Inspection
statistics	Statistics
vlan	Vlan range
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

## Command Mode

- /exec

## clear ip arp statistics

```
clear ip arp statistics [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
<i>interface</i>	(Optional) ARP interface
statistics	Clear 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) Clear ARP statistics for all vrfs

### Command Mode

- /exec

# clear ip arp suppression-cache statistics

clear ip arp suppression-cache statistics

## Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
suppression-cache	ARP-suppression cache
statistics	clear suppression statistics

## Command Mode

- /exec

# clear ip arp suppression

clear ip arp suppression <ip-address> vlan <vlan-id> force-delete

## Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
suppression	ARP-suppression based event
<i>ip-address</i>	IP address
vlan	Vlan id
<i>vlan-id</i>	Vlan
force-delete	Clear the entries from ARP table without refresh

## Command Mode

- /exec

# clear ip arp tunnel-statistics

clear ip arp tunnel-statistics

## Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Display ARP table and statistics
tunnel-statistics	Clear ARP statistics for tunneled packets

## Command Mode

- /exec

# clear ip arp vpc-statistics

clear ip arp vpc-statistics

## Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Display ARP table and statistics
vpc-statistics	Clear ARP vPC statistics

## Command Mode

- /exec

# clear ip cache

```
clear ip cache { { interface [ <intf> ] } }
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
cache	Clear ip cache
interface	Clear ip interface information
<i>intf</i>	(Optional) Interface name to clear

## Command Mode

- /exec

# clear ip dhcp global statistics

clear ip dhcp global statistics

## Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
global	Clear State of DHCP global stats
statistics	DHCP snooping statistics

## Command Mode

- /exec



# clear ip dhcp relay statistics

```
clear ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name> ] } ]
```

## Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
relay	Clear State of DHCP relay stats
statistics	DHCP Relay statistics
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

## Command Mode

- /exec

## clear ip dhcp snooping binding

```
clear ip dhcp snooping binding [ { vlan <vlan-id> mac <mac-addr> ip <ip-addr> interface <interface-id> } |
```

### Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
snooping	Clear State of DHCP Snooping
binding	DHCP snooping bindings
vlan	(Optional) VLAN
<i>vlan-id</i>	(Optional) VLAN id
mac	(Optional) MAC address
<i>mac-addr</i>	(Optional) MAC address
ip	(Optional) IP address
<i>ip-addr</i>	(Optional) IP address
interface	(Optional) interface
<i>interface-id</i>	(Optional) interface

### Command Mode

- /exec

# clear ip dhcp snooping statistics

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

## Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
snooping	Clear State of DHCP snooping stats
statistics	DHCP snooping statistics
vlan	(Optional) VLAN
<i>vlan-id</i>	(Optional) VLAN id
interface	(Optional) input interface
<i>intf</i>	(Optional) interface

## Command Mode

- /exec

# clear ip dns all config

clear ip dns all config

## Syntax Description

clear	Clear entries
ip	Configure ip feature
dns	DNS related config
all	All DNS related content
config	Domain-name, name-server, domain-list, sortlist, options, results

## Command Mode

- /exec

# clear ip dns use-vrf config

clear ip dns use-vrf config

## Syntax Description

clear	Clear entries
ip	Configure ip feature
dns	DNS related config
use-vrf	Config with keyword use-vrf
config	Domain-name, name-server, domain-list

## Command Mode

- /exec

# clear ip eigrp

clear ip eigrp [ <eigrp-ptag> ] event-history bfd

## Syntax Description

clear	Reset functions
ip	Clear IP commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Clear the event history buffers
bfd	Show bfd log of EIGRP

## Command Mode

- /exec

# clear ip eigrp

```
clear 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 } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
eigrp	EIGRP clear commands
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

## Command Mode

- /exec

# clear ip ftm statistics

clear ip ftm statistics

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ftm	FTM API
statistics	Statistics

## Command Mode

- /exec



# clear ip igmp

```
clear ip igmp { groups | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP related information
groups	Route information
route	Route information
all	Clear all routes
<i>group-prefix</i>	Clear all routes within the Group prefix
<i>group</i>	Clear all routes matching the Group
<i>source</i>	(Optional) Clear a (S,G) route
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

## clear ip igmp event-history

clear ip igmp event-history [ <igmp-event-hist-buf-name> ]

### Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP related information
event-history	Clear event-history buffers
<i>igmp-event-hist-buf-name</i>	(Optional) Event hist buffer name

### Command Mode

- /exec

# clear ip igmp interface statistics

clear ip igmp interface statistics [ <interface> ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP statistics information
interface	Interface related information
statistics	Packet/internal counter statistics
<i>interface</i>	(Optional) Specific interface only

## Command Mode

- /exec

## clear ip igmp internal mrib-cache

```
clear ip igmp internal mrib-cache [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP related information
internal	Commands for internal use
mrib-cache	clear this vrf mrib-cache and repopulate
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

# clear ip igmp snooping

clear ip igmp snooping { report-policy | access-group } statistics [ vlan <vlan> ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping information
snooping	Clear IGMP Snooping information
report-policy	IGMP Report Policy
access-group	IGMP access-group
statistics	Policy statistics
vlan	(Optional) Clear VLAN IGMP snooping policy statistics information
<i>vlan</i>	(Optional) Specify VLAN

## Command Mode

- /exec

## clear ip igmp snooping event-history

clear ip igmp snooping event-history [ <igmp-snoop-event-hist-buf-name> ]

### Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping event hist buffers
snooping	Clear IGMP Snooping event hist buffers
event-history	Clear event history buffers
<i>igmp-snoop-event-hist-buf-name</i>	(Optional) Event history buffer name

### Command Mode

- /exec

# clear ip igmp snooping explicit-tracking

```
clear ip igmp snooping explicit-tracking { vlan <vlan> | bridge-domain <bdid> }
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping information
snooping	Clear IGMP Snooping information
explicit-tracking	Clear Explicit Host tracking information
vlan	Clear explicit tracking information for VLAN
<i>vlan</i>	Specify VLAN
bridge-domain	Clear explicit tracking information for BD
<i>bdid</i>	Specify BD

## Command Mode

- /exec

## clear ip igmp snooping groups

```
clear ip igmp snooping groups { <all> | { <group-prefix> | <group> } [ <source> ] } [ interface <if-name> ]
{ vlan { <vlan-id> | all } }
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
groups	Clear snooped groups
all	Clear all groups
<i>group-prefix</i>	Group prefix to clear
<i>group</i>	Group address to clear
<i>source</i>	(Optional) Source address to clear
interface	(Optional) Specify interface to clear group state
<i>if-name</i>	(Optional) Interface name to clear
vlan	Clear information for VLAN/BD
<i>vlan-id</i>	Specify the VLAN/BD number
all	Clear for all VLAN/BDs

### Command Mode

- /exec



## clear ip igmp snooping proxy querier ports

clear ip igmp snooping proxy querier ports { vlan <vlan> | bridge-domain <bdid> } <if-name> [ purge ]

### Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
proxy	Clear IGMP snooping proxy
querier	Clear IGMP snooping proxy querier
ports	Clear IGMP snooping proxy querier ports
vlan	Clear for a specific vlan
<i>vlan</i>	Specify the VLAN number
bridge-domain	Clear for a specific BD
<i>bdid</i>	Specify the BD number
<i>if-name</i>	Interface name to clear
purge	(Optional) Remove port from priority list

### Command Mode

- /exec

## clear ip igmp snooping statistics

clear ip igmp snooping statistics { vlan <vlan> | bridge-domain <bdid> | all }

### Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping statistics information
snooping	Clear IGMP Snooping statistics information
statistics	Packet/internal counter statistics
vlan	Clear VLAN statistics
<i>vlan</i>	Specify VLAN
bridge-domain	Clear BD statistics
<i>bdid</i>	Specify BD
all	All VLAN/BDs

### Command Mode

- /exec

## clear ip igmp snooping vpc peer-link-exclude vlan

clear ip igmp snooping vpc peer-link-exclude vlan { <vlan-id> | all } [ group <group-addr> ]

### Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping information
snooping	Clear IGMP Snooping information
vpc	Clear vPC information
peer-link-exclude	Clear vPC peer-link Exclude state
vlan	Clear vpc peer-link Exclude state for VLAN/BD
<i>vlan-id</i>	Specify VLAN/BD
all	All VLAN/BDs
group	(Optional) Clear vpc peer-link Exclude state for VLAN/BD
<i>group-addr</i>	(Optional) Specify Group address

### Command Mode

- /exec

# clear ip interface statistics

clear ip interface statistics [ <interface> ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
interface	Clear IP related interface information
statistics	Clear IP interface statistics
<i>interface</i>	(Optional) Clear IP statistics for interface

## Command Mode

- /exec

## clear ip lisp map-cache

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

### Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
lisp	LISP clear commands
map-cache	Clear an EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Clear entry for particular vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid-prefix</i>	(Optional) Clear entry associated with IP EID-prefix

### Command Mode

- /exec

# clear ip lisp statistics

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

## Syntax Description

clear	Reset functions
ip	Clear IP commands
lisp	LISP clear commands
statistics	Clear global LISP statistics
vrf	(Optional) Clear statistics for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# clear ip mbgp

```
{ { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] dampening
[ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] dampening [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [
vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] ipv4 { unicast | multicast }
dampening [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] all dampening } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] { ipv4 { unicast | multicast } } dampening [ <ip-prefix> | <ip-addr> [
<ip-mask> ] ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] {
ipv6 { unicast | multicast } } dampening [ <ipv6-prefix> ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] all dampening } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
dampening	Clear route flap dampening information
<i>ip-prefix</i>	(Optional) Clear route flap dampening for prefix
<i>ip-addr</i>	(Optional) Clear route flap dampening for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
unicast	Clear unicast address-family
multicast	Clear multicast address-family
all	Clear all address-families

## Command Mode

- /exec

## clear ip mbgp

```
{ { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] flap-statistics
[ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp
[ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] ipv4 { unicast | multicast }
flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] all flap-statistics } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] ipv4 { unicast | multicast } } flap-statistics [ <ip-prefix> | <ip-addr>
[ <ip-mask> ] | regexp <regexp-str> ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] ipv6 { unicast | multicast } } flap-statistics [ <ip6-prefix> | regexp
<regexp-str> ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
all flap-statistics } } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

clear	Reset functions
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ip	Clear IP commands
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
flap-statistics	Clear flap statistics
<i>ip-prefix</i>	(Optional) Clear flap statistics for one prefix
<i>ip-addr</i>	(Optional) Clear flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
unicast	Clear unicast address-family
multicast	Clear multicast address-family
all	Clear all address-families
regexp	(Optional) Clear flap statistics for routes matching the regular expression
<i>regexp-str</i>	(Optional) Regular expression to match the AS paths

### Command Mode



- /exec

## clear ip mbgp

```
{ { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { <neighbor-id>
| * | <asn> | <prefix-id> peer-template <peer-template-name> } [ soft [ in | out ] | dampened-paths | flap-statistics
| no-notify ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
{ <neighbor-id> | * | <asn> | <prefix-id> | peer-template <peer-template-name> } [ soft [ in | out ] |
dampened-paths | flap-statistics | no-notify ] { ipv4 { unicast | multicast } | { } unicast | all } { soft [ in | out ]
| dampened-paths | flap-statistics | no-notify } ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] { ipv4 { unicast | multicast | mvpn } | ipv6 { unicast | multicast | mvpn }
| { } unicast | all } { <neighbor-id> | <ipv6-neighbor-id> | * | <asn> | peer-template <peer-template-name> |
<prefix-id> | <ipv6-prefix-id> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] } } [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
<i>neighbor-id</i>	IP address of the neighbor to clear
<i>prefix-id</i>	Clear all neighbors matching the prefix
*	Clear all neighbors (Should be a * character)
<i>asn</i>	Clear all neighbors in an AS
peer-template	Clear all neighbors in a peer-template
<i>peer-template-name</i>	Peer-template name
soft	(Optional) Soft reconfiguration
in	(Optional) Clear soft reconfiguration inbound
out	(Optional) Clear soft reconfiguration outbound
ipv4	(Optional) Clear IPv4 address-family
ipv6	Clear IPv6 address-family
unicast	(Optional) Clear unicast address-family
multicast	(Optional) Clear multicast address-family

mvpn	Display BGP information for MVPN address family
all	(Optional) Clear all address-families
dampened-paths	(Optional) Clear dampened paths for neighbor
flap-statistics	(Optional) Clear flap statistics for neighbor
no-notify	(Optional) Clear without sending notification

**Command Mode**

- /exec

## clear ip msdp

```
clear ip msdp { sa-cache | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP clear commands
sa-cache	Clear contents of SA cache
route	Clear contents of SA cache
all	Clear all routes
<i>group-prefix</i>	Clear all routes within the Group prefix
<i>group</i>	Clear all routes matching the Group
<i>source</i>	(Optional) Clear a (S,G) route
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

# clear ip msdp event-history

clear ip msdp event-history [ <msdp-event-hist-buf-name> ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP global configuration commands
event-history	Clear the event-history buffer instances
<i>msdp-event-hist-buf-name</i>	(Optional) Specify the particular instance of the event-history buffer

## Command Mode

- /exec

## clear ip msdp peer

```
clear ip msdp peer <peer-address> [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP clear commands
peer	Clear MSDP peer connection
<i>peer-address</i>	IP address of MSDP peer
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

## clear ip msdp policy statistics sa-policy

```
clear ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
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) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

## clear ip msdp statistics

```
clear ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP clear commands
statistics	Clear statistics for peers
<i>peer-address</i>	(Optional) IP address of MSDP peer
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec



# clear ip nat translation

```
clear ip nat translation { all | inside <insideGlobalIP> <insideLocalIP> [ outside <outsideLocalIP>
<outsideGlobalIP> ] | outside <outsideLocalIP> <outsideGlobalIP> }
```

## Syntax Description

clear	Reset functions
ip	Clear ip counters
nat	Clear NAT
translation	Clear dynamic translation
all	Delete all dynamic translations
inside	Inside addresses
<i>insideGlobalIP</i>	Inside global IP address
<i>insideLocalIP</i>	Inside local IP address
outside	(Optional) Outside addresses
<i>outsideLocalIP</i>	(Optional) Outside local IP address
<i>outsideGlobalIP</i>	(Optional) Outside global IP address

## Command Mode

- /exec TIMEOUT 600

# clear ip ospf

```
clear ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Clear event counters

## Command Mode

- /exec

# clear ip ospf traffic

```
clear ip ospf [ <tag> ] traffic [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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
traffic	Clear packet counters
<i>interface</i>	(Optional) Interface to clear all traffic on

## Command Mode

- /exec

## clear ip ospf neighbor

```
clear ip ospf [ <tag> ] neighbor { { * | <neighborid> } [ vrf { <vrf-name> | <vrf-known-name> | all } ] } |
{ <interface> } }
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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
neighbor	Clear one or more neighbors
*	Clear all neighbors
<i>neighborid</i>	Source IP address, or router ID of the neighbor
<i>interface</i>	Interface to clear all neighbors on

### Command Mode

- /exec

## clear ip ospf policy statistics

```
clear ip ospf [ <tag> ] policy statistics { { redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static |
direct | amt | lisp } } | { area <area-id-ip> filter-list { in | out } } } [ vrf { <vrf-name> | <vrf-known-name> |
all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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
policy	Clear 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
lisp	LISP EID-prefixes
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas

in	Filter networks sent to this area
out	Filter networks sent from this area
<i>tag</i>	

**Command Mode**

- /exec

# clear ip ospf interface

```
clear ip ospf [ <tag> ] interface { * | <interface> }
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
interface	Clear one or more interfaces
*	Clear all interfaces
<i>interface</i>	Interface to clear

## Command Mode

- /exec

# clear ip ospf database

clear ip ospf [ <tag> ] database

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
database	Clear the LSDB and all neighbors

## Command Mode

- /exec



# clear ip ospf redistribution

```
clear ip ospf [ <tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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
redistribution	Clear OSPF route redistribution

## Command Mode

- /exec

# clear ip pim event-history

clear ip pim event-history [ <pim-event-hist-buf-name> ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	PIM clear commands
event-history	Clear event history buffers
<i>pim-event-hist-buf-name</i>	(Optional) Event history buffer instance

## Command Mode

- /exec

# clear ip pim interface statistics

clear ip pim interface statistics [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	Clear PIM information
interface	Interface related information
statistics	Packet interface counter statistics
<i>interface</i>	(Optional) Interface name to clear
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

# clear ip pim policy statistics

clear ip pim policy statistics { jp-policy | neighbor-policy } <interface>

## Syntax Description

clear	Reset functions
ip	Clear IP commands
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

## Command Mode

- /exec

## clear ip pim policy statistics

```
clear 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

clear	Reset functions
ip	Clear IP commands
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 BSR messages
rp-candidate-policy	Statistics for RP candidate messages
auto-rp	Statistics for auto-rp messages
rp-candidate-policy	Statistics for RP candidate messages
mapping-agent-policy	Statistics for 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

## clear ip pim route

```
clear ip pim route { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name>
| all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	PIM clear commands
route	Route information
all	Clear all routes
<i>group-prefix</i>	Clear all routes within the Group prefix
<i>group</i>	Clear all routes matching the Group
<i>source</i>	(Optional) Clear a (S,G) route
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

# clear ip pim statistics

```
clear ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	Clear PIM information
statistics	Packet global 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

## Command Mode

- /exec

## clear ip rip policy statistics redistribute bgp

```
{ { clear ip rip policy statistics redistribute bgp <as> } | { clear ip rip policy statistics redistribute eigrp <tag>
} | { clear ip rip policy statistics redistribute isis <tag> } | { clear ip rip policy statistics redistribute rip <tag>
} | { clear ip rip policy statistics redistribute ospf <tag> } | { clear ip rip policy statistics redistribute direct }
| { clear ip rip policy statistics redistribute static } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
rip	Routing Information Protocol (RIP)
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)
ospf	Open Shortest Path First (OSPFv2)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected 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



# clear ip rsvp authentication

clear ip rsvp authentication [ <nbr-addr> ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
authentication	Clear security associations
<i>nbr-addr</i>	(Optional) RSVP Neighbor address

## Command Mode

- /exec

## clear ip rsvp counters

clear ip rsvp counters [ teardown | authentication | all ]

### Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
counters	RSVP counters
teardown	(Optional) Clear signaling tear information
authentication	(Optional) Display RSVP Security Association information
all	(Optional) Clear all information

### Command Mode

- /exec

# clear ip rsvp hello instance counters

clear ip rsvp hello instance counters

## Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
hello	RSVP Hello configuration commands
instance	Clear Hello instance information
counters	Clear RSVP statistics

## Command Mode

- /exec

## clear ip rsvp internal counters

clear ip rsvp internal counters [ error | client | mts | pss | refresh | reliable | batch-history ]

### Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
internal	Clear RSVP internal information
counters	Clear RSVP statistics
error	(Optional) Clear signaling error information
client	(Optional) Clear client information
mts	(Optional) Clear message service information
pss	(Optional) Clear persistent store information
refresh	(Optional) Clear refresh information
reliable	(Optional) Clear reliable message information
batch-history	(Optional) Clear batching history

### Command Mode

- /exec

# clear ip rsvp reservation

```
clear ip rsvp reservation { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ]
[ src-port <sport> ] | <all> }
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
reservation	Clear RSVP reservation state
destination	(Optional) Clear based on destination address
<i>dest</i>	(Optional) Destination address
source	(Optional) Clear based on a source address
<i>src</i>	(Optional) Source address
ip-protocol	(Optional) Clear based on IP protocol
<i>proto</i>	(Optional) IP protocol value
dst-port	(Optional) Clear based on destination port
<i>dport</i>	(Optional) Destination Port value
src-port	(Optional) Clear based on a source port
<i>sport</i>	(Optional) Source port value
all	Clear all state

## Command Mode

- /exec

## clear ip rsvp sender

```
clear ip rsvp sender { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ] [
src-port <sport> ] | <all> }
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
sender	Clear RSVP sender state
destination	(Optional) Clear based on destination address
<i>dest</i>	(Optional) Destination address
source	(Optional) Clear based on a source address
<i>src</i>	(Optional) Source address
ip-protocol	(Optional) Clear based on IP protocol
<i>proto</i>	(Optional) IP protocol value
dst-port	(Optional) Clear based on destination port
<i>dport</i>	(Optional) Destination Port value
src-port	(Optional) Clear based on a source port
<i>sport</i>	(Optional) Source port value
all	Clear all state

### Command Mode

- /exec

# clear ip rsvp signalling

clear ip rsvp signalling [ rate-limit | refresh-reduction ]

## Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
signalling	Configure RSVP Signalling information
rate-limit	(Optional) Clear rate-limit counters
refresh-reduction	(Optional) Clear refresh-reduction counters

## Command Mode

- /exec

# clear ip stats

clear ip stats

## Syntax Description

clear	Reset functions
ip	Clear IP commands
stats	Clear IP internal stats

## Command Mode

- /exec



# clear ip traffic

```
clear ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

clear	Reset functions
ip	Clear IP commands
traffic	Clear IP global statistics
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

## clear ip vip

```
clear ip vip { uuid <uuid> | <vip-addr> vrf { <vrf-name> | <vrf-known-name> } }
```

### Syntax Description

clear	Reset functions
ip	Clear IP commands
vip	Clear virtual ip address
uuid	UUID of client
<i>uuid</i>	UUID of client whose vips needs to be cleared
<i>vip-addr</i>	VIP in format A.B.C.D
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

### Command Mode

- /exec

# clear ipv6

```
clear ipv6 { icmp | nd } { interface statistics [ <interface> ] | global statistics }
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	Clear ICMPv6 information
nd	Clear Neighbor Discovery interface information
interface	Clear ICMPv6 related interface information
statistics	Clear ICMPv6 interface statistics
global	Clear ICMPv6 global statistics
<i>interface</i>	(Optional) Interface to clear statistics for

## Command Mode

- /exec

# clear ipv6

```
clear ipv6 [ icmp ] mld { groups | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	(Optional) Clear ICMPv6 information
mld	Clear Multicast Listener Discovery information
groups	Route information
route	Route information
all	Clear all routes
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

# clear ipv6 adjacency

clear ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <ipv6-addr> | \* } no-ufdm

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
adjacency	Clear Adjacency
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
*	Delete all adjacency in this context
no-ufdm	Create inconsistency in adjacency

## Command Mode

- /exec

# clear ipv6 adjacency statistics

clear ipv6 adjacency statistics

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
adjacency	Clear Adjacency
statistics	Clear Adjacency Statistics

## Command Mode

- /exec

# clear ipv6 amt tunnel

```
clear ipv6 amt tunnel [ <address6> <port> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

<code>clear</code>	AMT clear commands
<code>amt</code>	AMT show commands
<code>ipv6</code>	Display IP information
<code>tunnel</code>	Display tunnel information
<code>vrf</code>	(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)

## Command Mode

- /exec

# clear ipv6 cache

```
clear ipv6 cache { { interface [ <intf> ] } }
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
cache	Clear ipv6 cache
interface	Clear ipv6 interface information
<i>intf</i>	(Optional) Interface name to clear

## Command Mode

- /exec



## clear ipv6 dhcp relay statistics

```
clear 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> ] ] ] ]
```

### Syntax Description

clear	Reset functions
ipv6	IPv6
dhcp	Clear State of DHCPv6 features
relay	Clear State of DHCPv6 relay stats
statistics	DHCPv6 Relay statistics
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

### Command Mode

- /exec

# clear ipv6 eigrp

```
clear ipv6 eigrp [ <eigrp-ptag> ] route-map statistics redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip }
<tag> | static | direct | amt | lisp } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
lisp	LISP EID-prefixes

## Command Mode

- /exec

# clear ipv6 icmp vpc-statistics

clear ipv6 icmp vpc-statistics

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	Clear ICMPv6 information
vpc-statistics	Clear ICMPv6 ND vPC statistics

## Command Mode

- /exec

# clear ipv6 interface statistics

clear ipv6 interface statistics [ <interface> ]

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
interface	Clear IPv6 related interface information
statistics	Clear IPv6 interface statistics
<i>interface</i>	(Optional) Interface to clear statistics for

## Command Mode

- /exec

# clear ipv6 lisp statistics

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

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
lisp	LISP clear commands
statistics	Clear global LISP statistics
vrf	(Optional) Clear statistics for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

## clear ipv6 mtu

```
clear ipv6 mtu [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
mtu	Display IPV6 Path MTU Cache
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

# clear ipv6 neighbor

```
clear ipv6 neighbor [ [ <nbr-addr> [ <intf> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] | vrf { <vrf-name> | <vrf-known-name> | all } | <interface> ] [ force-delete ]
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
neighbor	Clear ICMPv6 neighbor cache
<i>intf</i>	(Optional) Clear cache entries for given interface
<i>interface</i>	(Optional) Clear cache entries for given interface
force-delete	(Optional) Clear the cache entries without refresh
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

## clear ipv6 netstack mroute

```
clear ipv6 netstack mroute { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
netstack	Netstack's local cache
mroute	Multicast route information
all	Clear all routes
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



# clear ipv6 pim event-history

clear ipv6 pim event-history [ <pim6-event-hist-buf-name> ]

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM event history buffers
event-history	Clear event-history buffers
<i>pim6-event-hist-buf-name</i>	(Optional) Event-history buffer instance

## Command Mode

- /exec

## clear ipv6 pim interface statistics

clear ipv6 pim interface statistics [ <interface> ]

### Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM6 information
interface	Interface related information
statistics	Packet interface counter statistics
<i>interface</i>	(Optional) Interface name to clear

### Command Mode

- /exec

# clear ipv6 pim policy statistics

clear ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface>

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM information
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface

## Command Mode

- /exec

## clear ipv6 pim route

```
clear ipv6 pim route { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name>
| all } ]
```

### Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	PIM6 clear commands
route	Route information
all	Clear all routes
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

# clear ipv6 pim statistics

```
clear ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM6 information
statistics	Packet global 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

## Command Mode

- /exec

## clear ipv6 rip policy statistics redistribute bgp

```
{ { clear ipv6 rip policy statistics redistribute bgp <as> } | { clear ipv6 rip policy statistics redistribute eigrp <tag> } | { clear ipv6 rip policy statistics redistribute isis <tag> } | { clear ipv6 rip policy statistics redistribute rip <tag> } | { clear ipv6 rip policy statistics redistribute ospfv3 <tag> } | { clear ipv6 rip policy statistics redistribute direct } | { clear ipv6 rip policy statistics redistribute static } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
rip	Routing Information Protocol (RIP)
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)
ospfv3	Open Shortest Path First (OSPFv3)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected 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

# clear ipv6 statistics

clear ipv6 statistics

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
statistics	Clear IPv6 global statistics

## Command Mode

- /exec

# clear ipv6 traffic

```
clear ipv6 traffic [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
traffic	Clear IPv6 traffic statistics
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



# clear isis

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route-map statistics { { redistribute
{ bgp <as> | { <src-isis> | eigrp | ospf | rip } <tag> } } | { redistribute { static | direct | amt | lisp } } | { distribute
<src-level> into <dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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) Clear IS-IS IPv4 information
route-map	Clear IS-IS route-map information
statistics	Clear IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Protocol
<i>as</i>	Autonomous system number
src-isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	RIP for IPv4
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
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

**Command Mode**

- /exec

## clear isis ipv6 route-map statistics

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route-map statistics { { redistribute
{ bgp <as> | { <src-isis> | eigrp | ospfv3 | rip } <tag> } } | { redistribute { static | direct | amt | lisp } } | {
distribute <src-level> into <dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS IPv6 information
statistics	Clear IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Protocol
<i>as</i>	Autonomous system number
src-isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
rip	RIP for IPv6 (RIPNG)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
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

**Command Mode**

- /exec

## clear isis statistics

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics { * | <interface> } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS protocol statistics
*	All IS-IS protocol statistics
<i>interface</i>	IS-IS interface

### Command Mode

- /exec

## clear isis dpi

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] dpi [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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
dpi	Clear IS-IS DPI logs

### Command Mode

- /exec

## clear isis spf-log

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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

### Command Mode

- /exec

## clear isis traffic

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic { * | <interface> } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS traffic information
*	All IS-IS traffic information
<i>interface</i>	IS-IS interface

### Command Mode

- /exec



# clear isis adjacency

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency { * | { <interface> | system-id
<sid> } + } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS adjacency state
*	IS-IS adjacencies on all interfaces
<i>interface</i>	IS-IS interface
system-id	Hostname or System ID
<i>sid</i>	Hostname or System ID (in the form of XXXX.XXXX.XXXX)

## Command Mode

- /exec

## clear isis event-history

```
clear isis [ <isis-tag> ] event-history [ <isis-event-hist-buf-name> ]
```

### Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<i>isis-tag</i>	(Optional) Routing process tag
event-history	Clear event history buffers
<i>isis-event-hist-buf-name</i>	(Optional) Clear the specific event history buffer

### Command Mode

- /exec

# clear isis redistribution

```
clear isis [ <isis-tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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
redistribution	Clear IS-IS redistributed information

## Command Mode

- /exec

# clear itd statistics

clear itd statistics <service-name>

## Syntax Description

clear	Reset functions
itd	ITD service
statistics	ITD statistics
<i>service-name</i>	ITD service-name

## Command Mode

- /exec

# clear l2fwder statistics

clear l2fwder statistics

## Syntax Description

clear	Reset functions
l2fwder	Clear L2FWDER related information
statistics	Clear the L2FWDER packet counters

## Command Mode

- /exec

# clear lacp counters

clear lacp counters [ interface <if0> ]

## Syntax Description

clear	Reset functions
lacp	LACP protocol
counters	LACP counters
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)

## Command Mode

- /exec

# clear ldap-server statistics

clear ldap-server statistics <host0> [ \_\_readonly\_\_ ]

## Syntax Description

clear	Reset functions
ldap-server	Clear LDAP related parameters
statistics	Clear LDAP statistics
<i>host0</i>	DNS name or IP address
__readonly__	(Optional)

## Command Mode

- /exec

# clear license

```
clear license { <license-file> [ force ] | sprom | <s0> }
```

## Syntax Description

clear	Reset functions
license	clear license
<i>license-file</i>	License file to be uninstalled
force	(Optional) Force license clear (don't prompt)
sprom	clear license contents in sprom
<i>s0</i>	License file to be uninstalled

## Command Mode

- /exec



# clear lim counters

clear lim counters [ timeline ]

## Syntax Description

clear	Clear lim counters
lim	clear lim counters
counters	clear lim counters
timeline	(Optional) Clear all lim counters

## Command Mode

- /exec

# clear line

clear line <s0>

## Syntax Description

clear	Reset functions
line	Kill a session on particular vty
<i>s0</i>	Enter the vty name

## Command Mode

- /exec

# clear lisp ddt referral-cache

```
clear lisp ddt referral-cache [ instance-id <iid> ] [ <eid-prefix> | <eid-prefix6> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

clear	Reset functions
lisp	LISP clear commands
ddt	LISP Delegated Database Tree
referral-cache	Clear the DDT referral cache
vrf	(Optional) Clear entry for particular vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
instance-id	(Optional) Clear entry for specific instance-ID
<i>iid</i>	(Optional) 24-bit instance-ID value
<i>eid-prefix</i>	(Optional) Clear entry associated with IP EID-prefix

## Command Mode

- /exec

## clear lisp dynamic-eid

```
clear lisp dynamic-eid { <dyn-eid-name> | <dyn-eid> } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

clear	Reset functions
lisp	LISP clear commands
dynamic-eid	Clear dynamic-EID state
<i>dyn-eid</i>	IPv4 address of dynamic-EID entry
<i>dyn-eid-name</i>	Clear entries discovered for a dynamic-EID range
vrf	(Optional) Clear dynamic-EID entries for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

# clear lisp internal event-history

clear lisp internal event-history <lisp-event-hist>

## Syntax Description

clear	Reset functions
lisp	LISP clear commands
internal	Commands for internal use
event-history	Clear LISP event log
<i>lisp-event-hist</i>	Clear LISP event log

## Command Mode

- /exec

## clear lisp proxy-itr

```
clear lisp proxy-itr [ <addr> | <addr6> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

clear	Reset functions
lisp	LISP clear commands
proxy-itr	Clear discovered PITRs
<i>addr</i>	(Optional) IPv4 locator address of PITR
vrf	(Optional) Clear proxy-itr state for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec

# clear lisp site

```
clear lisp site <site-name> [ instance-id <iid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

clear	Reset functions
lisp	LISP clear commands
site	Clear site registration data
<i>site-name</i>	Clear registration data for a single site
instance-id	(Optional) Clear registration for a single instance-id within a site
<i>iid</i>	(Optional) 24-bit instance-ID value
vrf	(Optional) Clear site entries for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

# clear lldp counters

clear lldp counters

## Syntax Description

clear	Reset functions
lldp	Reset the lldp counters
counters	Reset the lldp traffic counters to zero

## Command Mode

- /exec



# clear lldp counters interface

```
clear lldp counters interface <if0>
```

## Syntax Description

clear	Reset functions
lldp	Reset the lldp counters
counters	Reset the lldp traffic counters to zero
interface	Clear lldp traffic counters per interface
<i>if0</i>	Enter interface

## Command Mode

- /exec

# clear logging logfile

clear logging logfile

## Syntax Description

clear	Reset functions
logging	Clear logging information
logfile	Clear logfile messages

## Command Mode

- /exec

# clear logging nvram

clear logging nvram

## Syntax Description

clear	Reset functions
logging	Clear logging information
nvram	Clear nvram logs

## Command Mode

- /exec

## clear logging onboard

```
clear logging onboard [ { counter-stats | epld-log | internal { <dc3_options> } | module <module> [ {
counter-stats | internal { <dc3_options> } } ] ] ]
```

### Syntax Description

clear	Reset functions
logging	Clear logging information
onboard	Clear OBFL information
counter-stats	(Optional) Clear OBFL counter statistics
epld-log	(Optional) Clear EPLD log
internal	(Optional) Clear Logging Onboard Internal
module	(Optional) Clear OBFL information for Module
<i>module</i>	(Optional) Enter module number
counter-stats	(Optional) Clear OBFL counter statistics
<i>dc3_options</i>	(Optional) dc3 options

### Command Mode

- /exec

# clear logging onboard

clear logging onboard [ { card-boot-history | card-first-power-on | environmental-history | error-stats | exception-log | interrupt-stats | module <module> [ { environmental-history | error-stats | exception-log | interrupt-stats | obfl-logs | stack-trace | card-boot-history | card-first-power-on } ] | obfl-logs | stack-trace } ]

## Syntax Description

clear	Reset functions
logging	Clear logging information
onboard	Clear OBFL information
environmental-history	(Optional) Clear OBFL environmental history
error-stats	(Optional) Clear OBFL error statistics
exception-log	(Optional) Clear OBFL exception log
interrupt-stats	(Optional) Clear OBFL interrupt statistics
card-boot-history	(Optional) Clear Card Boot History
card-first-power-on	(Optional) Clear Card First Power On
module	(Optional) Clear OBFL information for Module
<i>module</i>	(Optional) Enter module number
obfl-logs	(Optional) Clear OBFL (boot-uptime/device-version/obfl-history).
stack-trace	(Optional) Clear OBFL stack trace

## Command Mode

- /exec

# clear logging session

clear logging session

## Syntax Description

clear	Reset functions
logging	Clear logging information
session	Clear logging session

## Command Mode

- /exec

# clear login failures

clear login failures

## Syntax Description

clear	Reset functions
login	Secure Login
failures	Clear login failures in the current watch period

## Command Mode

- /exec

## clear mac address-table datapath

```
clear mac address-table datapath { dynamic [ vlan <id> ] | static [ vlan <id> ] | { statistics [ interface ] } |
isis_intf_stats }
```

### Syntax Description

clear	Clear
mac	MAC configuration commands
address-table	MAC Address Table
datapath	Titanium Datapath Table
dynamic	clear dynamic entries from Titanium PD Forwarding Table
static	USE WITH CAUTION!! clear static entries from Titanium PD Forwarding Table
vlan	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
statistics	Clear datapath statistics
interface	(Optional) Clear datapath interface statistics
isis_intf_stats	Statistics of ISIS Frames Tx/Rx

### Command Mode

- /exec



# clear mmode database

clear mmode database

## Syntax Description

clear	Reset functions
mmode	Clear mmode
database	Clear mmode database

## Command Mode

- /exec

# clear mpls forwarding statistics

```
clear mpls forwarding statistics [ interface { <interface> | all } ]
```

## Syntax Description

clear	Reset functions
mpls	MPLS events
forwarding	Clear MPLS software forwarded
statistics	Traffic statistics
interface	(Optional) Interface specific information
<i>interface</i>	(Optional) Interface chosen to clear statistics
all	(Optional) All interfaces

## Command Mode

- /exec

# clear mpls ldp internal counters

clear mpls ldp internal counters { all | system | forwarding }

## Syntax Description

clear	Reset functions
mpls	MPLS clear commands
ldp	Clear LDP state
internal	Clear LDP internal information
counters	Clear LDP statistics
all	Clear all LDP statistics
system	Clear LDP system statistics
forwarding	Clear LDP forwarding related statistics

## Command Mode

- /exec

## clear mpls ldp neighbor

```
clear mpls ldp neighbor [ vrf { <vrf-name> | <vrf-known-name> } ] { <address> | * }
```

### Syntax Description

clear	Reset functions
mpls	MPLS clear commands
ldp	Clear LDP state
neighbor	Clear LDP neighbor sessions
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>address</i>	IP address for LDP neighbor
*	Clear all neighbors

### Command Mode

- /exec

# clear mpls strip labels

clear mpls strip labels { static | dynamic | all }

## Syntax Description

clear	Reset functions
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
labels	labels in database
all	all labels [default]
static	labels learned using cli
dynamic	dynamically learned

## Command Mode

- /exec

## clear mpls switching label statistics

clear mpls switching label statistics { all | <label-value> }

### Syntax Description

clear	Reset functions
mpls	MPLS clear commands
switching	Clear MPLS label switching database information
label	Clear MPLS label information
statistics	Clear label statistics
all	Clear statistics for all labels
<i>label-value</i>	Label

### Command Mode

- /exec

# clear mpls traffic-eng auto-bw timers

clear mpls traffic-eng auto-bw timers

## Syntax Description

auto-bw	Clear auto-bw collection
timers	Clear tunnel counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

## Command Mode

- /exec

## clear mpls traffic-eng internal counters

clear mpls traffic-eng internal counters { forwarding | mts | rsvp-client | threads }

### Syntax Description

counters	Clear internal counters
forwarding	Clear forwarding programming stats
mts	Clear MTS send and receive stats
rsvp-client	Clear rsvp client call stats
threads	Clear thread event stats
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information
internal	Clear internal information

### Command Mode

- /exec



# clear mpls traffic-eng link-management counters

clear mpls traffic-eng link-management counters

## Syntax Description

link-management	Clear Link-Management statistical information
counters	Clear Link-Management counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

## Command Mode

- /exec

# clear mpls traffic-eng tunnel counters

clear mpls traffic-eng tunnel counters

## Syntax Description

tunnel	Clear Tunnel statistics
counters	Clear tunnel counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

## Command Mode

- /exec

# clear ntp session

clear ntp session

## Syntax Description

clear	Reset functions
ntp	Network Time Protocol
session	Clear the ntp configuration session

## Command Mode

- /exec

# clear ntp statistics

clear ntp statistics { all-peers | io | local | memory }

## Syntax Description

clear	Reset functions
ntp	Network Time Protocol
statistics	Clear NTP Statistics
all-peers	Clear per-peer statistics counter of all peers
io	Clear input-output statistics
local	Clear counters maintained by the local NTP
memory	Clear statistics counters related to memory code

## Command Mode

- /exec

# clear nve peers

clear nve peers <addr> interface <nve-if>counters

## Syntax Description

clear	Reset functions
nve	Configure NVE information
peers	NVE Peer
<i>addr</i>	Remote Peer IP Address
interface	Interface

## Command Mode

- /exec

# clear nve peers history-log

clear nve peers history-log

## Syntax Description

clear	Reset functions
nve	Configure NVE information
peers	NVE Peer
history-log	nve_clear_peers_history_log_cmd

## Command Mode

- /exec

# clear nve vni

clear nve vni { <vni-id> | all } counters

## Syntax Description

clear	Reset functions
nve	Configure NVE information
vni	Virtual Network Identifier
<i>vni-id</i>	Virtual Network Identifier
counters	Counters
all	Clear counters for all vnis

## Command Mode

- /exec

# clear nvram

clear nvram

## Syntax Description

clear	Reset functions
nvram	purge NVRAM

## Command Mode

- /exec



# clear onep error

clear onep error

## Syntax Description

clear	Reset functions
onep	One Platform
error	Clear the ONE-P error buffer

## Command Mode

- /exec

## clear onep history

```
clear onep history { { archived } | { all } | { session { all | <onep-session-id> } } }
```

### Syntax Description

clear	Reset functions
onep	One Platform
history	One Platform history trails
archived	One Platform archived session
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name

### Command Mode

-

# clear onep session rate-limit

clear onep session rate-limit

## Syntax Description

clear	Reset functions
onep	One Platform
session	One Platform session
rate-limit	rate limiting feature info

## Command Mode

-

## clear onep statistics

```
clear onep statistics [ session { all | <onep-session-id> } ]
```

### Syntax Description

clear	Reset functions
onep	One Platform
statistics	statistics
session	(Optional) One Platform session
all	(Optional) All sessions
<i>onep-session-id</i>	(Optional) Specific session name

### Command Mode

- /exec

# clear onep trace

clear onep trace

## Syntax Description

clear	Reset functions
onep	One Platform
trace	Clear the ONE-P trace buffer

## Command Mode

- /exec

# clear ospfv3

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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
traffic	Clear traffic counters
<i>interface</i>	(Optional) Interface to clear all traffic on

## Command Mode

- /exec

# clear ospfv3

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Clear statistics counters

## Command Mode

- /exec

## clear ospfv3

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] policy statistics { { redistribute { bgp
<as> | { eigrp | isis | rip } <tag> | static | direct | amt | lisp } } | { area <area-id-ip> filter-list { in | out } } } [
vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
policy	Clear Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
in	Filter networks sent to this area
out	Filter networks sent from this area



<i>tag</i>	
------------	--

**Command Mode**

- /exec

## clear ospfv3

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbor { * | <neighborid> | <interface>
} [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

### Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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
neighbor	Clear one or more neighbors
*	Clear all neighbors
<i>neighborid</i>	Source IP address, or router ID of the neighbor
<i>interface</i>	Interface to clear all neighbors on

### Command Mode

- /exec

# clear ospfv3

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] internal interface-cache [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
internal	Commands for internal use
interface-cache	Interface-cache
<i>interface</i>	(Optional) Interface to clear the interface-cache on
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

# clear ospfv3

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface { * | <interface> } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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	Clear one or more interfaces
*	Clear all interfaces
<i>interface</i>	Interface to clear

## Command Mode

- /exec

# clear ospfv3

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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	Clear the LSDB and all neighbors

## Command Mode

- /exec

# clear ospfv3

```
clear ospfv3 [ <tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

## Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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
redistribution	Clear OSPFv3 route redistribution

## Command Mode

- /exec

# clear otv arp-nd

clear otv arp-nd [ <l3\_addr> ]

## Syntax Description

clear	Reset functions
otv	OTV events
arp-nd	Log ARP/ND caching clear
<i>l3_addr</i>	(Optional) L3 IP address

## Command Mode

- /exec

## clear otv isis

clear otv isis [ <otv-isis-tag> ] internal perf timer

### Syntax Description

clear	Reset functions
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
perf	Performance
timer	Timer performance

### Command Mode

- /exec



# clear otv isis

```
clear otv isis [ <otv-isis-tag> ] [ ip ] route-map statistics [ vpn { <vrf-name> | all } ]
```

## Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ip	(Optional) Clear IS-IS IPv4 information
route-map	Clear IS-IS route-map information
statistics	Clear IS-IS route-map statistics

## Command Mode

- /exec

## clear otv isis

```
clear otv isis [ <otv-isis-tag> ] statistics { * | <interface> } [ vpn { <vrf-name> | all } ]
```

### Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
statistics	Clear IS-IS protocol statistics
*	All IS-IS protocol statistics
<i>interface</i>	IS-IS interface

### Command Mode

- /exec

# clear otv isis

```
clear otv isis [ <otv-isis-tag> ] traffic { * | <interface> } [ vpn { <vrf-name> | all } ]
```

## Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
traffic	Clear IS-IS traffic information
*	All IS-IS traffic information
<i>interface</i>	IS-IS interface

## Command Mode

- /exec

## clear otv isis

```
clear otv isis [ <otv-isis-tag> ] adjacency { * | { <interface> | system-id <sid> } } [ vpn { <vrf-name> | all } ]
```

### Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
adjacency	Clear IS-IS adjacency state
*	IS-IS adjacencies on all interfaces
<i>interface</i>	IS-IS interface
system-id	Hostname or System ID
<i>sid</i>	Hostname or System ID (in the form of XXXX.XXXX.XXXX)

### Command Mode

- /exec

# clear otv isis

clear otv isis [ <isis-tag> ] event-history [ <isis-event-hist-buf-name> ]

## Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>isis-tag</i>	(Optional) Routing process tag
event-history	Clear event history buffers
<i>isis-event-hist-buf-name</i>	(Optional) Clear the specific event history buffer

## Command Mode

- /exec

## clear otv isis

clear otv isis [ <otv-isis-tag> ] internal packet queue counters

### Syntax Description

clear	Reset functions
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
packet	Packet counters
queue	Packet queue counters
counters	Clear packet queue max counters

### Command Mode

- /exec

# clear pktmgr cache

```
clear pktmgr cache { { interface [ <intf> ] } | { vlan [ <vl> ] } }
```

## Syntax Description

clear	Reset functions
pktmgr	Clear Packet Manager information
cache	Clear pktmgr cache
interface	Clear pktmgr related interface information
vlan	Clear pktmgr related vlan information
<i>intf</i>	(Optional) Interface name to clear
<i>vl</i>	(Optional) Vlan

## Command Mode

- /exec

# clear pktmgr client

clear pktmgr client [ <uuid> ]

## Syntax Description

clear	Reset functions
pktmgr	Clear Packet Manager information
client	Clear pktmgr clients counters
<i>uuid</i>	(Optional) Clear pktmgr client counters for given uuid

## Command Mode

- /exec



# clear pktmgr interface

clear pktmgr interface [ <interface> ]

## Syntax Description

clear	Reset functions
pktmgr	Clear Packet Manager information
interface	Clear pktmgr related interface information
<i>interface</i>	(Optional) Interface name to display

## Command Mode

- /exec

# clear port-profile command-cache

```
clear port-profile command-cache [ interface <intfname> ]
```

## Syntax Description

clear	Reset functions
port-profile	Clear port-profiles
command-cache	Clear port-profile command cache
interface	(Optional) Name of interface
<i>intfname</i>	(Optional) Name of interface

## Command Mode

- /exec

# clear port-profile database

clear port-profile database

## Syntax Description

clear	Reset functions
port-profile	Clear port-profiles
database	Clear port-profile database

## Command Mode

- /exec

## clear port-security dynamic address

clear port-security dynamic address <mac-address> vlan <vlanid>

### Syntax Description

clear	Reset functions
port-security	Clear port-security information
dynamic	dynamic addresses
address	secure address
<i>mac-address</i>	48 bit mac address
vlan	vlan information
<i>vlanid</i>	vlan id. Enter a value between 1 and 4094

### Command Mode

- /exec

# clear port-security dynamic interface

clear port-security dynamic interface <if\_index> [ vlan <vlanid> ]

## Syntax Description

clear	Reset functions
port-security	Clear port-security information
dynamic	dynamic addresses
interface	interface
<i>if_index</i>	ethernet
vlan	(Optional) vlan information
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

## Command Mode

- /exec

# clear port-security nvram

clear port-security nvram

## Syntax Description

clear	Reset functions
port-security	Clear port-security information
nvram	port-security nvram

## Command Mode

- /exec

# clear port-security nvram force

clear port-security nvram force

## Syntax Description

clear	Reset functions
port-security	Clear port-security information
nvram	port-security nvram
force	force clear

## Command Mode

- /exec

# clear processes log all

clear processes log all

## Syntax Description

clear	Reset functions
processes	process-related clear commands
log	Delete log files
all	Delete all the log files

## Command Mode

- /exec



# clear processes log all vdc-all

clear processes log all vdc-all

## Syntax Description

clear	Reset functions
processes	process-related clear commands
log	Delete log files
all	Delete all the log files
vdc-all	Delete all the log files in all vdc's

## Command Mode

- /exec

# clear processes log archive

clear processes log archive [ file <s0> ]

## Syntax Description

clear	Reset functions
processes	system manager spawned processes
log	Delete log files
archive	clear all process logs for this vdc from logflash on this module
file	(Optional) delete a log file on logflash
s0	(Optional) Name of file in directory 'log'

## Command Mode

- /exec

# clear processes log pid

clear processes log pid <i0>

## Syntax Description

clear	Reset functions
processes	process-related clear commands
log	Delete log files
pid	Delete log file of a specific process
<i>i0</i>	pid of the process

## Command Mode

- /exec

# clear processes vdc

clear processes vdc <e-vdc2> log all

## Syntax Description

clear	Reset functions
processes	process-related clear commands
vdc	process-related clear commands in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Delete log files
all	Delete all the log files

## Command Mode

- /exec

# clear processes vdc

clear processes vdc <e-vdc2> log pid <i1>

## Syntax Description

clear	Reset functions
processes	process-related clear commands
vdc	process-related clear commands in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Delete log files
pid	Delete log file of a specific process
<i>i1</i>	pid of the process

## Command Mode

- /exec

# clear ptp counters

```
clear ptp counters { interface <if0> | all }
```

## Syntax Description

clear	Reset functions
ptp	Precision Time Protocol (IEEE 1588) Subsystem
counters	Display PTP packet counters
interface	Enter the port interface
all	Displays all information
<i>if0</i>	

## Command Mode

- /exec

# clear qos mpls-snmp

clear qos mpls-snmp

## Syntax Description

clear	Reset functions
mpls-snmp	MPLS default table-map and snmp indices in pss

## Command Mode

- /exec

# clear qos policies

clear qos policies

## Syntax Description

clear	Reset functions
policies	Clear default policies

## Command Mode

- /exec



# clear qos policies force

clear qos policies force

## Syntax Description

clear	Reset functions
policies	Clear default policies
force	Clear forcefully

## Command Mode

- /exec

# clear qos statistics

```
clear qos statistics [ { interface [ <iface-list> ] | vlan [ <vlan-list> ] } [ input | output ] [ type <qos-or-q> ] ]
```

## Syntax Description

clear	Reset functions
statistics	Clear statistics
interface	(Optional) Clear statistics on a interface
<i>iface-list</i>	(Optional) List of Interfaces
vlan	(Optional) 802.1Q vlan
<i>vlan-list</i>	(Optional) List of vlan ids
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Policy type
<i>qos-or-q</i>	(Optional)

## Command Mode

- /exec

## clear radius-server statistics

clear radius-server statistics <host0> [ \_\_readonly\_\_ ]

### Syntax Description

clear	Reset functions
radius-server	Clear RADIUS related parameters
statistics	Clear RADIUS statistics
<i>host0</i>	DNS name or IP address
__readonly__	(Optional)

### Command Mode

- /exec

# clear radius session

clear radius session

## Syntax Description

clear	Reset functions
radius	clear to be committed RADIUS config and lock in fabric
session	clear to be committed RADIUS config and lock in fabric

## Command Mode

- /exec

# clear rmon

clear rmon { alarms | events | logs | hcalarms | all-alarms }

## Syntax Description

clear	Reset functions
rmon	Clear RMON tables
alarms	Clear all 32 bit alarms
events	Clear rmon log this also clears rmon event table
logs	Clear rmon log
hcalarms	Clear all 64 bit rmon alarms
all-alarms	Clear all 32 bit and 64 bit rmon alarms

## Command Mode

- /exec

# clear route-map

```
clear route-map { <route-map-name> | <route-map-cfg-name> } pbr-statistics
```

## Syntax Description

clear	Reset functions
route-map	Route-map used for PBR
<i>route-map-name</i>	
<i>route-map-cfg-name</i>	
pbr-statistics	Statistics for policy based routing

## Command Mode

- /exec

# clear routing

```
clear routing [ ip | ipv4 ] [ unicast ] event-history { add-route | cli | delete-route | detail | errors | general | ha |
loop-detection | modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary
}
```

## Syntax Description

clear	Reset functions
routing	Clear routing information
ip	(Optional) Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Clear unicast information
event-history	Clear routing event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
errors	Errors
general	General
ha	HA
loop-detection	Loop detection
modify-route	Modify route
notifications	Notification
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM
ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary

## Command Mode

- /exec

# clear routing

clear routing [ ip | ipv4 ] [ unicast ] memstats

## Syntax Description

clear	Reset functions
routing	Clear routing information
ip	(Optional) Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Display unicast information
memstats	Clear urib memory statistics

## Command Mode

- /exec



# clear routing ipv6

```
clear routing ipv6 [ unicast ] event-history { <u6rib-event-hist> | <u6rib-event-hist-hid> }
```

## Syntax Description

clear	Reset functions
routing	Clear routing information
ipv6	Clear IPv6 commands
unicast	(Optional) Clear unicast information
event-history	Clear routing event log
<i>u6rib-event-hist</i>	Clear routing event log
<i>u6rib-event-hist-hid</i>	Clear routing event log

## Command Mode

- /exec

# clear rpm pss

```
clear rpm pss { running | startup | all }
```

## Syntax Description

clear	Reset functions
rpm	Route Policy Manager (RPM)
pss	Clear PSS related information
running	Clear the running PSS commands configuration
startup	Clear the startup PSS commands configuration
all	Clear all PSS commands configuration

## Command Mode

- /exec

# clear scheduler logfile

clear scheduler logfile

## Syntax Description

clear	Reset functions
scheduler	Scheduler clear commands
logfile	Clear scheduler log file

## Command Mode

- /exec

# clear screen

clear screen

## Syntax Description

clear	Reset functions
screen	Clear screen

## Command Mode

- /exec

# clear service module slot

clear service module slot <slot-no> password

## Syntax Description

clear	clear functions
service	service module
module	module
slot	slot id
<i>slot-no</i>	slot
password	Reset svc-module password

## Command Mode

- /exec

## clear session state name

clear session state name <s4>

### Syntax Description

clear	Reset functions
session	Reset config session internals
state	Reset config session internal state
name	Reset config session internal state for a given name
s4	Enter the name of the session

### Command Mode

- /exec

# clear sflow statistics

clear sflow statistics

## Syntax Description

clear	Reset functions
sflow	sFlow global configuration
statistics	Clear sFlow statistics

## Command Mode

- /exec

# clear snmp counters

clear snmp counters

## Syntax Description

clear	Reset functions
snmp	Clear SNMP Tables
counters	Clear SNMP counters

## Command Mode

- /exec



# clear snmp hostconfig

clear snmp hostconfig

## Syntax Description

clear	Reset functions
snmp	Clear SNMP Tables
hostconfig	Clear SNMP Host List

## Command Mode

- /exec

# clear sockets statistics

clear sockets statistics { all | tcp | tcp6 | udp | udp6 | raw | raw6 }

## Syntax Description

clear	Reset functions
sockets	Clear sockets statistics
statistics	Clear sockets statistics
all	Clear TCP/UDP/RAW v4/v6 statistics
tcp	Clear TCP v4 statistics
tcp6	Clear TCP v6 statistics
udp	Clear UDP v4 statistics
udp6	Clear UDP v6 statistics
raw	Clear RAW v4 statistics
raw6	Clear RAW v6 statistics

## Command Mode

- /exec

## clear spanning-tree counters

clear spanning-tree counters [ interface <interface-id> | vlan <vlan-id> | bridge-domain <bd-id> ]

### Syntax Description

clear	Reset functions
spanning-tree	Spanning Tree Subsystem
counters	Clear spanning tree statistics
interface	(Optional) Specify an interface as a target for the command
<i>interface-id</i>	(Optional) Specify an interface as a target for the command
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11

### Command Mode

- /exec

# clear spanning-tree detected-protocols

clear spanning-tree detected-protocols [ interface <interface-id> ]

## Syntax Description

clear	Reset functions
spanning-tree	Spanning Tree Subsystem
detected-protocols	Restart the protocol migration process
interface	(Optional) Specify an interface as a target for the command
<i>interface-id</i>	(Optional) Specify an interface as a target for the command

## Command Mode

- /exec

# clear spanning-tree sps-hist

clear spanning-tree sps-hist

## Syntax Description

clear	Reset functions
spanning-tree	Spanning Tree Subsystem
sps-hist	Set port state stats

## Command Mode

- /exec

# clear ssh hosts

clear ssh hosts

## Syntax Description

clear	Reset functions
ssh	Clear ssh values
hosts	Clear the list of trusted ssh hosts

## Command Mode

- /exec

# clear system internal forwarding pd-history

clear system internal forwarding pd-history

## Syntax Description

clear	Clear bintrace entries
system	System-related show commands
internal	Commands for internal use
forwarding	forwarding
pd-history	MFDM DI history

## Command Mode

- /exec

# clear system internal forwarding pd-history bitmask

clear system internal forwarding pd-history bitmask

## Syntax Description

clear	Clear bintrace entries
system	System-related show commands
internal	Commands for internal use
forwarding	forwarding
pd-history	MFDM DI history
bitmask	Bitmask

## Command Mode

- /exec



# clear system internal forwarding unicast counters

clear system internal forwarding unicast counters

## Syntax Description

clear	Show running system information
system	System-related show commands
internal	Commands for internal use
forwarding	Show fib information
unicast	show unicast information
counters	Show mpls pd counters

## Command Mode

- /exec

## clear system internal iscm packet-stats service

```
clear system internal iscm packet-stats service { all | name <service-name> }
```

### Syntax Description

clear	Reset functions
system	System-related show commands
internal	Clear iscm internal
iscm	Clear iscm feature
packet-stats	Rise packet statistics
service	Rise service
all	Clear all rise services
name	Specify rise service name
<i>service-name</i>	Service name

### Command Mode

- /exec

# clear system internal npacl event-history

clear system internal npacl event-history { acl | ppf | cli | internal | all } [ dump-to-file ]

## Syntax Description

clear	Reset functions
system	system
internal	Commands for internal use
npacl	Configure NPACL feature
event-history	event history
acl	Clear acl policy history
ppf	Clear ppf interaction history
cli	Clear cli history
internal	Clear internal
all	Clear all history buffers
dump-to-file	(Optional) Dump the npacl event history logs into the file

## Command Mode

- /exec

## clear system internal orib event-history

clear system internal orib event-history [ <orib-event-hist-buf-name> ] [ verbose ]

### Syntax Description

clear	Reset functions
system	Clear logs in system
internal	Commands for internal use
orib	Clear ORIB commands
event-history	ORIB event logs
<i>orib-event-hist-buf-name</i>	(Optional) Event history buffer
verbose	(Optional) Do not add per route info into buffer

### Command Mode

- /exec

# clear system reset-reason

clear system reset-reason

## Syntax Description

clear	Reset functions
system	Clear logs in system
reset-reason	Clear reset-reason logs in the system

## Command Mode

- /exec

# clear system reset-reason history

clear system reset-reason history

## Syntax Description

clear	Reset functions
system	Clear logs in system
reset-reason	Clear reset-reason logs in the system
history	Clear reset-reason history logs in the system

## Command Mode

- /exec

# clear tacacs-server statistics

clear tacacs-server statistics <host0> [ \_\_readonly\_\_ ]

## Syntax Description

clear	Reset functions
tacacs-server	Clear TACACS related parameters
statistics	Clear TACACS statistics
<i>host0</i>	DNS name or IP address
__readonly__	(Optional)

## Command Mode

- /exec

# clear tech-support lock

clear tech-support lock

## Syntax Description

clear	Reset functions
tech-support	Gather information for troubleshooting
lock	Clear the lock which prohibits multiple show techs to run in parallel

## Command Mode

- /exec



# clear tech-support lock

clear tech-support lock

## Syntax Description

clear	Reset functions
tech-support	Gather information for troubleshooting
lock	Clear the lock which prohibits multiple show techs to run in parallel

## Command Mode

- /exec

# clear track internal info counters

clear track internal info counters

## Syntax Description

clear	Reset functions
track	Clear track information
internal	Clear internal track information
info	Clear internal data structure information
counters	Clear track counters information

## Command Mode

- /exec

# clear user

clear user <*s0*>

## Syntax Description

clear	Reset functions
user	Logout a particular user
<i>s0</i>	Enter the username

## Command Mode

- /exec

# clear veobc counters

clear veobc counters

## Syntax Description

clear	Reset function
veobc	Reset the veobc counters
counters	Reset the veobc statistic counters to zero

## Command Mode

- /exec

# clear vlan

clear vlan [ id <vlan-id> ] counters

## Syntax Description

clear	Reset functions
vlan	Vlan commands
id	(Optional) clear VLAN counters by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
counters	display counters

## Command Mode

- /exec

## clear vlan access-list counters

clear vlan access-list counters [ <name> ]

### Syntax Description

clear	Reset functions
vlan	Vlan commands
access-list	Clear access list statistical information
counters	Clear access list counters
<i>name</i>	(Optional) List name

### Command Mode

- /exec

# clear vmtracker counters

clear vmtracker counters

## Syntax Description

clear	Clear
vmtracker	Clear vmtracker info
counters	Clear vmtracker counter info

## Command Mode

- /exec

# clear vpc statistics

```
clear vpc statistics { vpc <vpc_num> | peer-link }
```

## Syntax Description

clear	Reset functions
vpc	Statistics for a specific vPC
statistics	Statistics
<i>vpc_num</i>	Virtual Port Channel number
peer-link	stats for peer-link

## Command Mode

- /exec



# clear vpc statistics all

clear vpc statistics all

## Syntax Description

clear	Reset functions
vpc	Virtual Port Channel configuration
statistics	Statistics
all	All vPC statistics

## Command Mode

- /exec

# clear vpc statistics peer-keepalive

clear vpc statistics peer-keepalive

## Syntax Description

clear	Reset functions
vpc	Virtual Port Channel configuration
statistics	Statistics
peer-keepalive	peer keepalive module related statistics

## Command Mode

- /exec

# clear vpc transport statistics

clear vpc transport statistics [ \_\_readonly\_\_ ]

## Syntax Description

clear	Reset functions
vpc	Virtual Port Channel configuration
transport	cfs transport
statistics	Statistics
__readonly__	(Optional) Read Only

## Command Mode

- /exec/

## clear vrrp statistics

```
clear vrrp statistics [ interface <intf_num> ] [ vr <vr_id> ]
```

### Syntax Description

clear	Reset functions
vrrp	Clear virtual router
statistics	Clear global virtual router statistics
interface	(Optional) Select interface
<i>intf_num</i>	(Optional)
vr	(Optional) [1-255] clear virtual router statistics
<i>vr_id</i>	(Optional)

### Command Mode

- /exec

# clear vrrpv3 statistics

```
clear vrrpv3 statistics [ <interface_num> [ <group_num> ] ] [ <opt_v4_or_v6> ]
```

## Syntax Description

clear	Reset functions
vrrpv3	VRRPv3 Clear commands
statistics	VRRPV3 statistics
<i>interface_num</i>	(Optional) Interface
<i>group_num</i>	(Optional) Group number
<i>opt_v4_or_v6</i>	(Optional) Enter ipv4 or ipv6

## Command Mode

- /exec

# clear xl

clear xl

## Syntax Description

clear	Reset functions
xl	

## Command Mode

- /exec

## cli alias name

{ cli alias name <s0> <line> | no cli alias name <s0> [ <line> ] }

### Syntax Description

no	Negate a command or set its defaults
cli	Configure CLI commands
alias	Define an alias
name	Specify the alias
s0	Alias command
line	Alias definition

### Command Mode

- /exec/configure

## cli no var name

cli no var name <s0>

### Syntax Description

cli	CLI commands
no	Negate a command or set its defaults
var	Unset a variable
name	Specify a variable name
s0	Variable name

### Command Mode

- /exec



# cli reload parsetree

cli reload parsetree

## Syntax Description

cli	
reload	
parsetree	

## Command Mode

- /exec

# cli show running-config local

cli show running-config local

## Syntax Description

cli	
show	
running-config	
local	

## Command Mode

- /exec

# cli var name

{ cli var name <s0> <line> | no cli var name <s0> [ <line> ] }

## Syntax Description

no	Negate a command or set its defaults
cli	Configure CLI commands
var	Define a variable
name	Specify a variable name
<i>s0</i>	Variable name
<i>line</i>	Variable value

## Command Mode

- /exec/configure

# cli var name

[no] cli var name <s0>

## Syntax Description

no	Negate a command or set its defaults
cli	CLI commands
var	Unset a variable
name	Specify a variable name
s0	Variable name

## Command Mode

- /exec

# cli var name

cli var name <s0> <line>

## Syntax Description

cli	CLI commands
var	Define a variable
name	Specify a variable name
<i>s0</i>	Variable name
<i>line</i>	Variable value

## Command Mode

- /exec

# cli verifyrun

[no] cli verifyrun

## Syntax Description

no	(Optional) Negate a command or set its defaults
cli	CLI commands
verifyrun	Verify and run

## Command Mode

- /exec

# client-to-client reflection

[no] client-to-client reflection

## Syntax Description

no	(Optional) Negate a command or set its defaults
client-to-client	Configure client-to-client route reflection
reflection	reflection of routes permitted

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

# clock-tolerance

```
{ { no | default } clock-tolerance | clock-tolerance ntp oneway { absolute <abs-value> | percent <percentage> } }
```

## Syntax Description

no	
<i>clock-tolerance</i>	ntp
default	Set a command to its defaults
clock-tolerance	Set acceptable clock synchronization error
ntp	Acceptable clock synchronization error due to NTP
oneway	Acceptable clock synchronization error in oneway measurement
absolute	Acceptable error in microseconds
percent	Acceptable error as percent of value measured
<i>abs-value</i>	Number in microseconds
<i>percentage</i>	Percentage of one-way delay

## Command Mode

- /exec/configure/ip-sla/jitter



# clock

```
{ clock { summer-time <s0> [ <i0> <s1> <s2> <s3> <i1> <s4> <s5> <s6> [ <i2> ] ] | timezone <s7> <i3>
<i4> } | no clock { summer-time [ <s0> <i0> <s1> <s2> <s3> <i1> <s4> <s5> <s6> <i2> ] | timezone [ <s7>
<i3> <i4> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
clock	Clock
summer-time	Configure summer (daylight savings) time
<i>s0</i>	Name of time zone in summer, such as PDT, CDT, EDT, etc..
<i>i0</i>	(Optional) Week number to start (first week=1, last week=5)
<i>s1</i>	(Optional) Weekday to start
<i>s2</i>	(Optional) Month to start
<i>s3</i>	(Optional) HH:MM Time to start
<i>i1</i>	(Optional) Week number to end (first week=1, last week=5)
<i>s4</i>	(Optional) Weekday to end
<i>s5</i>	(Optional) Month to end
<i>s6</i>	(Optional) HH:MM Time to end
<i>i2</i>	(Optional) Offset to add in minutes
timezone	Configure time zone
<i>s7</i>	Name of time zone, such as PST, MST, CST, EST, etc..
<i>i3</i>	Hours offset from UTC
<i>i4</i>	Minutes offset from UTC

## Command Mode

- /exec/configure

# clock format

[no] clock format { 12-hours | 24-hours }

## Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
format	Display format of clock
12-hours	12 hours display
24-hours	24 hours display

## Command Mode

- /exec/configure

# clock format show-timezone syslog

[no] clock format show-timezone syslog

## Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
format	Display format of clock
show-timezone	Display the configured timezone
syslog	Display the configured timezone in syslogs

## Command Mode

- /exec/configure

# clock protocol

[no] clock protocol { ntp | ptp | none } vdc <vdc-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
protocol	protocol
ntp	ntp
ptp	ptp
none	none (clock can be set manually)
vdc	vdc
<i>vdc-id</i>	vdc-id

## Command Mode

- /exec/configure

# clock set

clock set <s0> <i0> { April <i1> | August <i2> | December <i3> | February <i4> | January <i5> | July <i6> | June <i7> | March <i8> | May <i9> | November <i10> | October <i11> | September <i12> }

## Syntax Description

clock	Clock
set	HH:MM:SS Current Time
s0	HH:MM:SS Current Time
i0	Day of the month
April	Month of the year
i1	Enter the year (no abbreviation)
August	Month of the year
i2	Enter the year (no abbreviation)
December	Month of the year
i3	Enter the year (no abbreviation)
February	Month of the year
i4	Enter the year (no abbreviation)
January	Month of the year
i5	enter the year (no abbreviation)
July	Month of the year
i6	Enter the year (no abbreviation)
June	Month of the year
i7	Enter the year (no abbreviation)
March	Month of the year
i8	Enter the year (no abbreviation)
May	Month of the year
i9	Enter the year (no abbreviation)
November	Month of the year
i10	Enter the year (no abbreviation)

October	Month of the year
<i>i11</i>	Enter the year (no abbreviation)
September	Month of the year
<i>i12</i>	Enter the year (no abbreviation)

**Command Mode**

- /exec

# clock sync-interval

[no] clock sync-interval <intv>

## Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
sync-interval	sync-interval in seconds
<i>intv</i>	interval

## Command Mode

- /exec/configure

# cluster-id

[no] cluster-id { <ip-cluster-id> | <int-cluster-id> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
cluster-id	Configure Route Reflector Cluster-ID
<i>ip-cluster-id</i>	Cluster-id as an IP address
<i>int-cluster-id</i>	Cluster-id as a 32 bit quantity

## Command Mode

- /exec/configure/router-bgp/vrf-cmds



# collect counter

[no] collect counter { bytes | packets } [ long ]

## Syntax Description

collect	Specify a non-key field
counter	Counters to collect
bytes	Total number of bytes
packets	Total number of packets
long	(Optional) Long counter (64 bits)

## Command Mode

- /exec/configure/nfm-record

# collect flow sampler id

[no] collect flow sampler id

## Syntax Description

collect	Specify a non-key field
flow	Flow identifying fields
sampler	Sampler
id	Identifier for sampler used for the flow

## Command Mode

- /exec/configure/nfm-record

# collect ip version

[no] collect ip version

## Syntax Description

collect	Specify a non-key field
ip	IP attributes
version	IPv4 or IPv6

## Command Mode

- /exec/configure/nfm-record

# collect routing destination as

[no] collect routing destination as [ peer ]

## Syntax Description

collect	Specify a non-key field
routing	Routing attributes
destination	AS destination
as	Destination AS number of origin network
peer	(Optional) Destination AS number of the peer network

## Command Mode

- /exec/configure/nfm-record

# collect routing forwarding-status

[no] collect routing forwarding-status

## Syntax Description

collect	Specify a non-key field
routing	Routing attributes
forwarding-status	Forwarding status of the packet

## Command Mode

- /exec/configure/nfm-record

# collect routing next-hop address ipv4

[no] collect routing next-hop address ipv4 [ bgp ]

## Syntax Description

collect	Specify a non-key field
routing	Routing attributes
next-hop	Next hop address
address	Address
ipv4	IPv4 next hop address
bgp	(Optional) BGP next hop IPv4 address

## Command Mode

- /exec/configure/nfm-record

# collect routing next-hop address ipv6

[no] collect routing next-hop address ipv6 [ bgp ]

## Syntax Description

collect	Specify a non-key field
routing	Routing attributes
next-hop	Next hop address
address	Address
ipv6	IPv6 next hop address
bgp	(Optional) BGP next hop IPv6 address

## Command Mode

- /exec/configure/nfm-record

## collect routing source as

[no] collect routing source as [ peer ]

### Syntax Description

collect	Specify a non-key field
routing	Routing attributes
source	AS source
as	AS source
peer	(Optional) Source AS number of the peer network

### Command Mode

- /exec/configure/nfm-record



# collect timestamp sys-uptime

[no] collect timestamp sys-uptime { first | last }

## Syntax Description

collect	Specify a non-key field
timestamp	Timestamp fields
sys-uptime	System uptime
first	Time the first packet was seen
last	Time the most recent packet was seen

## Command Mode

- /exec/configure/nfm-record

# collect transport tcp flags

[no] collect transport tcp flags

## Syntax Description

collect	Specify a non-key field
transport	Transport layer fields
tcp	TCP layer fields
flags	TCP flags

## Command Mode

- /exec/configure/nfm-record

# commit

commit

## Syntax Description

commit	Commit the current configuration session
--------	------------------------------------------

## Command Mode

- /exec/configure

# commit verbose

commit verbose

## Syntax Description

commit	Commit the current configuration session
verbose	Commit the current configuration session with more details

## Command Mode

- /exec/configure

# compress-bitfields ipv6 multicast

[no] compress-bitfields ipv6 multicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
compress-bitfields	Compress bitfields for improved memory utilization
ipv6	Use for IPv6 multicast
multicast	Use compressed bitfields for M6RIB and PIM6

## Command Mode

- /exec/configure

# confederation identifier

[no] confederation identifier <confed-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
confederation	AS confederation parameters
identifier	Set routing domain confederation AS
<i>confed-id</i>	AS number

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# confederation peers

[no] confederation peers <confed-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
confederation	AS confederation parameters
peers	Peer ASs in BGP confederation
<i>confed-id</i>	AS number

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# configure

configure [ terminal ]

## Syntax Description

configure	Enter configuration mode
terminal	(Optional) Configure the system from terminal input

## Command Mode

- /exec



# configure maintenance profile

[no] configure maintenance profile { normal-mode | maintenance-mode }

## Syntax Description

no	(Optional) Negate a command or set its defaults
configure	Enter configuration mode
maintenance	maintenance profile mode
profile	maintenance profile
normal-mode	Normal mode profile
maintenance-mode	Maintenance mode profile

## Command Mode

- /exec

# configure session

configure session <s0>

## Syntax Description

configure	Enter configuration mode
session	Configure the system in a session
s0	Enter the name of the session

## Command Mode

- /exec

# congestion-control ecn

[no] congestion-control ecn

## Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
ecn	Enable ECN protocol

## Command Mode

- /exec/configure/policy-map/type/uf/class

## congestion-control random-detect

```
[no] congestion-control random-detect { [ threshold { burst-optimized | mesh-optimized } ] | {
minimum-threshold <min-thresh> [ packets | bytes | kbytes | mbytes ] maximum-threshold <max-thresh> [
packets1 | bytes1 | kbytes1 | mbytes1 ] drop-probability <drop-prob> } } { [ ecn ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
random-detect	Enable WRED protocol
threshold	(Optional) Threshold
minimum-threshold	Minimum Threshold
maximum-threshold	Maximum Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic
drop-probability	Drop Probability at Maximum Threshold
<i>drop-prob</i>	Drop Probability Value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo Bytes
mbytes	(Optional) Mega Bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ecn	(Optional) Explicit Congestion Notification

### Command Mode

- /exec/configure/policy-map/type/uf/class

# congestion-control random-detect global-buffer minimum-threshold

[no] congestion-control random-detect global-buffer minimum-threshold { <min-thresh> [ packets | bytes | kbytes | mbytes ] } maximum-threshold { <max-thresh> [ packets1 | bytes1 | kbytes1 | mbytes1 ] }

## Syntax Description

no	(Optional) Negate the command
congestion-control	Congestion control protocol
random-detect	Enable WRED protocol
global-buffer	global buffer threshold
minimum-threshold	Specify minimum threshold for WRED
<i>min-thresh</i>	Minimum threshold value
maximum-threshold	Specify maximum threshold for WRED
<i>max-thresh</i>	Maximum threshold value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes

## Command Mode

- /exec/configure

# congestion-control tail-drop

[no] congestion-control tail-drop [ threshold { burst-optimized | mesh-optimized } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
tail-drop	Enable Tail-Drop
threshold	(Optional) Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic

## Command Mode

- /exec/configure/policy-map/type/uf/class

# connect

[no] connect

## Syntax Description

no	(Optional) Negate a command or set its defaults
connect	Connect to remote host

## Command Mode

- /exec/configure/vmt-conn

# continue

```
{ continue <seq> } | { no continue [ <seq> ] }
```

## Syntax Description

no	Negate a command or set its defaults
continue	Continue on a different entry within the route-map
<i>seq</i>	Route-map entry sequence number

## Command Mode

- /exec/configure/route-map



# contract-id

{ contract-id <s0> | no contract-id }

## Syntax Description

no	Negate a command or set its defaults
contract-id	Service contract id of the customer
s0	Provide contract number (as specified in the service agreement)

## Command Mode

- /exec/configure/callhome

# control-plane

control-plane

## Syntax Description

control-plane	Enter to control-plane sub-mode
---------------	---------------------------------

## Command Mode

- /exec/configure

# control vlan

[no] control vlan <vlan-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
control	ITD control vlan
vlan	control vlan
<i>vlan-id</i>	Control vlan id

## Command Mode

- /exec/configure/itd-inout

# controller tech-support

controller tech-support <dest\_uri>

## Syntax Description

controller	Gather logs for Controller troubleshooting
tech-support	Gather information for troubleshooting
<i>dest_uri</i>	A compressed tarball will be created with .tar.gz extension applied to the file name

## Command Mode

- /exec

## controller type l2-vxlan identifier

[no] controller type l2-vxlan identifier <controller-id>

### Syntax Description

no	(Optional) Negate a command or set its defaults
controller	Controller command
type	Controller type
l2-vxlan	l2-vxlan
identifier	Controller identifier
<i>controller-id</i>	Controller id value

### Command Mode

- /exec/configure

# copp clear policy pps

copp clear policy pps

## Syntax Description

copp	copp
clear	clear
policy	policy
pps	pps

## Command Mode

- /exec/configure

# copp copy profile

copp copy profile <profile\_type> { prefix | suffix } <user\_string>

## Syntax Description

copp	Control-Plane Policing
copy	Make a copy of the CoPP Profile
profile	CoPP Profile
<i>profile_type</i>	CoPP Profile Types
prefix	prefix for the copied policy
suffix	suffix for the copied policy
<i>user_string</i>	Enter prefix/suffix for the copied policy

## Command Mode

- /exec

# copp distributed-policing enable

[no] copp distributed-policing enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
copp	Control-Plane Policing
distributed-policing	distributed policer
enable	enable distributed policing

## Command Mode

- /exec/configure



# copp profile

[no] copp profile [ <profile\_type> ]

## Syntax Description

no	Negate a command or set its defaults
copp	Control-Plane Policing
profile	CoPP Profile
<i>profile_type</i>	(Optional) CoPP Profile Types

## Command Mode

- /exec/configure

# copp profile

copp profile <profile\_type>

## Syntax Description

copp	Control-Plane Policing
profile	CoPP Profile
<i>profile_type</i>	CoPP Profile Types

## Command Mode

- /exec/configure

# copp rate-limit disable

[no] copp rate-limit disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
copp	copp
rate-limit	rate-limit
disable	Disable rate-limit on CoPP queues

## Command Mode

- /exec/configure

# copy

```
copy { { <src_local> { <dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } } | { <src_remote>
{ <dest_local> | running-config [ echo-commands ] [ stop-at-first-failure ] startup-config } } [ source-interface
<intf> | vrf <vrf-known-name> ] | { <src_core> { <dest_remote> [ source-interface <intf> | vrf
<vrf-known-name> ] } } | { running-config-src { <dest_remote> [ source-interface <intf> | vrf
<vrf-known-name> ] } } | { startup-config-src { <dest_remote> [ source-interface <intf> | vrf
<vrf-known-name> ] } } }
```

## Syntax Description

copy	Copy from one file to another
<i>src_local</i>	Select source filesystem
<i>src_core</i>	Select source filesystem
<i>dest_local</i>	Select destination filesystem
<i>dest_remote</i>	Select destination filesystem
<i>src_remote</i>	Select source filesystem
vrf	(Optional) Display per-VRF information
source-interface	(Optional) Select source interface
<i>intf</i>	(Optional)
<i>vrf-known-name</i>	(Optional) Known VRF name
running-config	Copy from source to running configuration
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
startup-config-src	Copy startup configuration to destination
echo-commands	(Optional) Echo the commands before applying them (to correlate errors)
stop-at-first-failure	(Optional) Stop at first error

## Command Mode

- /exec

## Usage Guidelines



**Note** When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

# copy

```
copy { { <src_local> { <dest_local> | running-config [ echo-commands ] [ stop-at-first-failure ] | startup-config
| scheduled-config } } | { <src_core> <dest_local_core> } | { running-config-src { startup-config [ fabric ] |
<dest_local_config> } } | { startup-config-src { running-config [ echo-commands ] [ stop-at-first-failure ] |
<dest_local_config> } } }
```

## Syntax Description

copy	Copy from one file to another
<i>src_local</i>	Select source filesystem
<i>src_core</i>	Select source filesystem
<i>dest_local</i>	Select destination filesystem
<i>dest_local_core</i>	Select destination filesystem
<i>dest_local_config</i>	Select destination filesystem
running-config	Copy from source to running configuration
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
startup-config-src	Copy startup configuration to destination
scheduled-config	Schedule configuration at the specified source to be applied at next switch reload
echo-commands	(Optional) Echo the commands before applying them (to correlate errors)
stop-at-first-failure	(Optional) Stop at first error
fabric	(Optional) Copy from source to fabric startup configuration

## Command Mode

- /exec

## Usage Guidelines



**Note** When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI !pa##word@example.com must be entered as %21pa%23%23word@example.com. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

# copy

```
copy { running-config-src { <dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } |
startup-config-src { <dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } } vdc-all
```

## Syntax Description

copy	Copy from one file to another
<i>dest_remote</i>	Select destination filesystem
vrf	(Optional) Display per-VRF information
<i>vrf-known-name</i>	(Optional) Known VRF name
source-interface	(Optional) Select source interface
<i>intf</i>	(Optional)
running-config-src	Copy running configuration to destination
startup-config-src	Copy startup configuration to destination
vdc-all	Perform copy for all vdes

## Command Mode

- /exec

## Usage Guidelines



**Note** When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

# copy

```
copy { running-config-src { startup-config | <dest_local_config> } | startup-config-src { running-config | <dest_local_config> } } vdc-all
```

## Syntax Description

copy	Copy from one file to another
<i>dest_local_config</i>	Select destination filesystem
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
running-config	Copy from source to running configuration
startup-config-src	Copy startup configuration to destination
vdc-all	Perform copy for all vdc's

## Command Mode

- /exec

## Usage Guidelines



**Note** When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa#word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

# copy recursive

```
copy <source> <destination> recursive [ vrf <vrf-known-name> ]
```

## Syntax Description

<i>copy</i>	Copy from one file to another
<i>recursive</i>	Recursively copy files and folders
<i>source</i>	Select source filesystem
<i>destination</i>	Select destination filesystem
<i>vrf</i>	(Optional) Display per-VRF information
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec

## Usage Guidelines



**Note** When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.



# copy licenses

copy licenses <uri0>

## Syntax Description

copy	Copy from one file to another
licenses	Backup license files
<i>uri0</i>	Specify URL (with .tar extension) for backing up license files

## Command Mode

- /exec

## core-on-no-memory

[no] core-on-no-memory

### Syntax Description

no	(Optional) Negate a command or set its defaults
core-on-no-memory	Generate core dump on memory allocation failure

### Command Mode

- /exec/configure/router-ospf

## core-on-no-memory

[no] core-on-no-memory

### Syntax Description

no	(Optional) Negate a command or set its defaults
core-on-no-memory	Generate core dump on memory allocation failure

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# cost

{ cost <cost> } | { no cost [ <cost> ] }

## Syntax Description

no	Negate a command or set its defaults
cost	Cost associated with interface
<i>cost</i>	Cost value

## Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

# count

count

## Syntax Description

	Pipe command output to filter
count	Count number of lines

## Command Mode

- /output

## counter name

counter name <counter-name> value <counter-value> op <op-val>

### Syntax Description

counter	Specify the name of the counter
name	Specify the name of the counter
<i>counter-name</i>	Name of the counter
value	Specify the value to be applied to the counter
<i>counter-value</i>	Enter the value
op	Specify the operator to be applied
<i>op-val</i>	Enter the value of the operator

### Command Mode

- /exec

# cpu threshold

[no] cpu threshold [ rising <risingth> falling <fallingth> interval <seconds> ]

## Syntax Description

no	Negate a command or set its defaults
cpu	CPU resource
threshold	Threshold settings
rising	(Optional) Rising threshold setting
<i>risingth</i>	(Optional) Rising threshold in percentage
falling	(Optional) Falling threshold setting
<i>fallingth</i>	(Optional) Falling threshold in percentage
interval	(Optional) Observation interval setting
<i>seconds</i>	(Optional) Observation interval in seconds

## Command Mode

- /exec/configure/onep

# cpu threshold rising

cpu threshold rising <risingth> falling <fallingth> interval <seconds>

## Syntax Description

cpu	CPU resource
threshold	Threshold settings
rising	Rising threshold setting
<i>risingth</i>	Rising threshold in percentage
falling	Falling threshold setting
<i>fallingth</i>	Falling threshold in percentage
interval	Observation interval setting
<i>seconds</i>	Observation interval in seconds

## Command Mode

- /exec/configure/onep



# crypto ca authenticate

[no] crypto ca authenticate <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
authenticate	Authenticate the certificate authority certificate
s0	trustpoint label

## Command Mode

- /exec/configure

## crypto ca crl request

[no] crypto ca crl request <s0> <uri0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
crl	import certificate revocation list
request	import certificate revocation list
s0	trustpoint label
uri0	Specify source file name

### Command Mode

- /exec/configure

# crypto ca enroll

[no] crypto ca enroll <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
enroll	Create certificate request
s0	trustpoint label

## Command Mode

- /exec/configure

## crypto ca export

[no] crypto ca export <s0> pkcs12 <uri0> <s1>

### Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
export	export rsa private key and certificates in pkcs#12
s0	trustpoint label
pkcs12	destination file url
uri0	Specify destination file name
s1	passphrase to encrypt the private key

### Command Mode

- /exec/configure

# crypto ca import

[no] crypto ca import <s0> certificate

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
import	import the certificate or key
s0	trustpoint label
certificate	import the certificate

## Command Mode

- /exec/configure

# crypto ca import

```
crypto ca import <s0> pkcs12 <uri0> <s1>
```

## Syntax Description

crypto	Set crypto settings
ca	Configure certificate authority related information
import	import the certificate or key
<i>s0</i>	trustpoint label
pkcs12	source file url
<i>uri0</i>	source file url
<i>s1</i>	passphrase to decrypt the private key

## Command Mode

- /exec/configure

# crypto ca lookup

[no] crypto ca lookup { remote | local | both }

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
lookup	Choose the certstore for authentication
remote	Use remote certstore
local	Use local certstore
both	Use both local and remote certstore

## Command Mode

- /exec/configure

## crypto ca remote ldap

```
[no] crypto ca remote ldap { server-group <s0> | [ crl-refresh-time <i0> ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
remote	Use ca from remote certstore
ldap	Ldap certstore
crl-refresh-time	(Optional) Configure refresh-time to fetch crl from remote certstore
<i>i0</i>	(Optional) Refresh time value in hours. A value of 0 will now run the refresh routine once.
server-group	Ldap server group
<i>s0</i>	Ldap server group name

### Command Mode

- /exec/configure



# crypto ca trustpoint

[no] crypto ca trustpoint <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
trustpoint	Configure trustpoint certificate authority
s0	trustpoint label

## Command Mode

- /exec/configure

## crypto cert ssh-authorize

[no] crypto cert ssh-authorize [ <s0> map <s1> [ <s2> ] | default map <s3> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Configure crypto settings
cert	Configure certificate mapping filter settings
ssh-authorize	Configure mapping filter for ssh
s0	(Optional) Issuer name of the certificate
map	(Optional) Mapping filter to be applied
s1	(Optional) Name of the mapping filter which is already configured
s2	(Optional) Name of the mapping filter which is already configured
default	(Optional) Default map for ssh authorization
s3	(Optional) Name of the default mapping filter which is already configured

### Command Mode

- /exec/configure

# crypto certificatemap mapname

[no] crypto certificatemap mapname <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
certificatemap	Configure certificatemap filters
mapname	Create a new filter map
s0	Name of the filter map

## Command Mode

- /exec/configure

## crypto key generate rsa

```
[no] crypto key generate rsa [ { [ exportable ] [ modulus <i0> ] | [ label <s0> ] | [ [ exportable ] [ modulus1 <i1> ] ] | modulus2 <i2> } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
key	Configure key pair related information
generate	Configure key pair generation related information
rsa	Configure rsa key pair generation related information
exportable	(Optional) key-pair is exportable
modulus	(Optional) key-pair size
<i>i0</i>	(Optional) key-pair size
label	(Optional) key-pair label
<i>s0</i>	(Optional) key-pair label
exportable	(Optional) key-pair is exportable
modulus1	(Optional) key-pair size
<i>i1</i>	(Optional) key-pair size
modulus2	(Optional) key-pair size
<i>i2</i>	(Optional) key-pair size

### Command Mode

- /exec/configure

# crypto key param rsa label

[no] crypto key param rsa label <s0> modulus <i0> [ exportable ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
key	Configure key pair related information
param	Configure key pair related information
rsa	Configure rsa key pair related information
label	key-pair label
<i>s0</i>	key-pair label
modulus	key-pair size
<i>i0</i>	key-pair size
exportable	(Optional) key-pair is exportable

## Command Mode

- /exec/configure

# crypto key zeroize rsa

[no] crypto key zeroize rsa <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
key	Configure key pair related information
zeroize	Delete key-pair
rsa	Delete rsa key-pair
s0	key-pair label

## Command Mode

- /exec/configure

# customer-id

{ customer-id <s0> | no customer-id }

## Syntax Description

no	Negate a command or set its defaults
customer-id	customer id
s0	Provide customer id (as specified in the service agreement)

## Command Mode

- /exec/configure/callhome

# cut

cut { -b <bytes> | -c <chars> | -f <fields> | -d <delim> | -s | --help } +

## Syntax Description

	Pipe command output to filter
cut	Print selected parts of lines.
-b	output only these bytes
-c	output only these characters
-d	specify other field delimiter (default is TAB).
-f	output only these fields also print any line that contains no delimiter character, unless the -s option is specified
-s	do not print lines not containing delimiters
<i>bytes</i>	{n n- n-m -m} N-th byte, N to end of line, N to M, start of line to N
<i>chars</i>	{n n- n-m -m} N-th char, N to end of line, N to M, start of line to N
<i>fields</i>	{n n- n-m -m} N-th field, N to end of line, N to M, start of line to N
<i>delim</i>	field separator char, TAB is default, use ' ' for space
--help	print help of underlying unix command

## Command Mode

- /output





## D Commands

---

- dampen-igp-metric, on page 729
- dampening, on page 730
- data-pattern, on page 731
- database-mapping, on page 732
- databits, on page 733
- databits, on page 734
- datapath transport mts, on page 735
- db-jid, on page 736
- db-security user, on page 737
- db-table, on page 738
- dead-interval, on page 739
- dead-interval, on page 740
- dead-interval, on page 741
- deadtime, on page 742
- deadtime, on page 743
- deadtime, on page 744
- dec, on page 745
- default-information originate, on page 746
- default-information originate, on page 747
- default-information originate, on page 748
- default-information originate, on page 749
- default-information originate, on page 750
- default-information originate, on page 751
- default-metric, on page 752
- default-metric, on page 753
- default-metric, on page 754
- default-metric, on page 755
- default-metric, on page 756
- default-originate, on page 757
- define, on page 758
- delay, on page 759
- delay, on page 760
- delay, on page 761

- [delay](#), on page 762
- [delay restore](#), on page 763
- [delay restore interface-vlan](#), on page 764
- [delete](#), on page 765
- [delete ca-certificate](#), on page 766
- [delete certificate](#), on page 767
- [delete crl](#), on page 768
- [demand-circuit](#), on page 769
- [description](#), on page 770
- [description](#), on page 771
- [description](#), on page 772
- [description](#), on page 773
- [description](#), on page 774
- [description](#), on page 775
- [description](#), on page 776
- [description](#), on page 777
- [description](#), on page 778
- [description](#), on page 779
- [description](#), on page 780
- [description](#), on page 781
- [description](#), on page 782
- [description](#), on page 783
- [description](#), on page 784
- [description](#), on page 785
- [description](#), on page 786
- [description](#), on page 787
- [description](#), on page 788
- [description](#), on page 789
- [description](#), on page 790
- [description](#), on page 791
- [description](#), on page 792
- [description](#), on page 793
- [description](#), on page 794
- [description](#), on page 795
- [dest-ipaddr](#), on page 796
- [dest-port](#), on page 797
- [destination-profile](#), on page 798
- [destination-profile](#), on page 799
- [destination-profile](#), on page 800
- [destination-profile](#), on page 801
- [destination-profile](#), on page 802
- [destination-profile](#), on page 803
- [destination-profile](#), on page 804
- [destination-profile](#), on page 805
- [destination-profile CiscoTAC-1 email-addr](#), on page 806
- [destination-profile CiscoTAC-1 http](#), on page 807

- destination-profile CiscoTAC-1 message-level, on page 808
- destination-profile CiscoTAC-1 message-size, on page 809
- destination-profile CiscoTAC-1 transport-method email, on page 810
- destination-profile CiscoTAC-1 transport-method http, on page 811
- destination-profile full-txt-destination email-addr, on page 812
- destination-profile full-txt-destination http, on page 813
- destination-profile full-txt-destination message-level, on page 814
- destination-profile full-txt-destination message-size, on page 815
- destination-profile full-txt-destination transport-method email, on page 816
- destination-profile full-txt-destination transport-method http, on page 817
- destination-profile short-txt-destination email-addr, on page 818
- destination-profile short-txt-destination http, on page 819
- destination-profile short-txt-destination message-level, on page 820
- destination-profile short-txt-destination message-size, on page 821
- destination-profile short-txt-destination transport-method email, on page 822
- destination-profile short-txt-destination transport-method http, on page 823
- destination, on page 824
- destination, on page 825
- device-group, on page 826
- diagnostic bootup level, on page 827
- diagnostic eem action aggressive, on page 828
- diagnostic pss shrink, on page 829
- diff-clean, on page 830
- diff-clean all-users, on page 831
- diff, on page 832
- dir, on page 833
- disable-connected-check, on page 834
- disable-memory-alert-check, on page 835
- disable-peer-as-check, on page 836
- disable-peer-as-check, on page 837
- disable-policy-batching, on page 838
- disable, on page 839
- discard-route, on page 840
- discard-route, on page 841
- discovery, on page 842
- distance, on page 843
- distance, on page 844
- distance, on page 845
- distance, on page 846
- distance, on page 847
- distance, on page 848
- distribute-list, on page 849
- distribute, on page 850
- dns, on page 851
- dont-capability-negotiate, on page 852
- dos2nxos, on page 853

- dot1q default dynamic, on page 854
- dot1x default, on page 855
- dot1x default, on page 856
- dot1x mac-auth-bypass, on page 857
- dot1x max-reauth-req, on page 858
- dot1x max-req, on page 859
- dot1x max-req, on page 860
- dot1x port-control, on page 861
- dot1x radius-accounting, on page 862
- dot1x re-authenticate, on page 863
- dot1x re-authentication, on page 864
- dot1x re-authentication, on page 865
- dot1x show credential, on page 866
- dot1x system-auth-control, on page 867
- dot1x timeout quiet-period, on page 868
- dot1x timeout quiet-period, on page 869
- dot1x timeout ratelimit-period, on page 870
- dot1x timeout re-authperiod, on page 871
- dot1x timeout re-authperiod, on page 872
- dot1x timeout server-timeout, on page 873
- dot1x timeout supp-timeout, on page 874
- dot1x timeout tx-period, on page 875
- dot1x timeout tx-period, on page 876
- down-bit-ignore, on page 877
- downlink delay, on page 878
- dscp, on page 879
- dual-active exclude interface-vlan, on page 880
- duplex, on page 881
- duplex, on page 882
- duplex, on page 883
- duplicate-message throttle, on page 884
- dynamic-capability, on page 885
- dynamic-med-interval, on page 886

# dampen-igp-metric

dampen-igp-metric <sec> | no dampen-igp-metric

## Syntax Description

no	Negate a command or set its defaults
dampen-igp-metric	Dampen IGP metric-related changes
<i>sec</i>	Time interval in seconds

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

# dampening

```
[no] dampening [ { <half-life> <reuse-limit> <suppress-limit> <max-suppress-time> } | { route-map
<rmap-name> } ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
dampening	Configure route flap dampening
<i>half-life</i>	(Optional) Decay half life
<i>reuse-limit</i>	(Optional) Value to start reusing a route
<i>suppress-limit</i>	(Optional) Value to start suppressing a route
<i>max-suppress-time</i>	(Optional) Maximum suppress time for stable route
route-map	(Optional) Apply route-map to specify dampening criteria
<i>rmap-name</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-vpn4  
/exec/configure/router-bgp/router-bgp-af-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-vpn6  
/exec/configure/router-bgp/router-bgp-af-l2vpn-vpls /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# data-pattern

{ { no | default } data-pattern | data-pattern <hex-pattern> }

## Syntax Description

no	
default	Set a command to its defaults
data-pattern	Data Pattern
<i>hex-pattern</i>	Data Pattern in Hex

## Command Mode

- /exec/configure/ip-sla/udp

## database-mapping

```
{ [ no ] database-mapping { <eid-prefix> | <eid-prefix6> } { redistribute | { { <locator> | <locator6> } priority <priority> weight <weight> } } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
database-mapping	Configure EID-prefix and locator-set for dynamic-EID
<i>eid-prefix</i>	IP EID-prefix for RLOC static mapping
<i>locator</i>	IP address of LISP-VM routers
priority	Configures which Locators from a set are preferred
<i>priority</i>	Lower priority Locator takes preference
weight	Traffic load-spreading among Locators
<i>weight</i>	Specified in a percentage from 0 to 100
redistribute	Used for redistributing into routing protocols

### Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid



# databits

[no] databits <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
databits	Set number of databits per character
<i>i0</i>	Number of data bits

## Command Mode

- /exec/configure/com1

# databits

[no] databits <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
databits	Set number of databits per character
<i>i0</i>	Number of data bits

## Command Mode

- /exec/configure/console

# datapath transport mts

[no] datapath transport mts

## Syntax Description

no	(Optional) Negate a command or set its defaults
datapath	One Platform datapath
transport	transport for datapath
mts	mts

## Command Mode

- /exec/configure/onep

# db-jid

[no] db-jid <jid> [ key-type <key-type> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
db-jid	Jabber ID of database
<i>jid</i>	Enter Jabber ID of database
key-type	(Optional) Query key type for this database
<i>key-type</i>	(Optional)

## Command Mode

- /exec/configure/fabric-db/server-xmpp

## db-security user

```
[no] db-security user <user> password { 0 <clear> | 7 <encrypted> | <password> } [ shared-secret { 10 <clear> | 7 <encrypted> | <secret> } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
db-security	Database Security
user	User ID
<i>user</i>	Enter user ID
password	Password
0	Password that follows should be in clear text
<i>clear</i>	Password in clear text
7	Password that follows should be in encrypted text
<i>encrypted</i>	Encrypted password
<i>password</i>	Enter password in clear text
shared-secret	(Optional) Shared-secret
10	(Optional) Indicates that password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password
<i>secret</i>	(Optional) Enter shared-secret in clear text

### Command Mode

- /exec/configure/fabric-db/server-ldap

# db-table

[no] db-table <tablename> [ key-type <key-type> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
db-table	Table name to search
<i>tablename</i>	Enter table name to search
key-type	(Optional) Query key type for this table
<i>key-type</i>	(Optional)

## Command Mode

- /exec/configure/fabric-db/server-ldap

# dead-interval

```
{ { dead-interval <interval> } | { no dead-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
dead-interval	Dead interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

# dead-interval

```
{ { dead-interval <interval> } | { no dead-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
dead-interval	Dead interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink



# dead-interval

```
{ { dead-interval <interval> } | { no dead-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
dead-interval	Dead interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

# deadtime

[no] deadtime <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

## Command Mode

- /exec/configure/radius

# deadtime

[no] deadtime <*i0*>

## Syntax Description

no	(Optional) Negate a command or set its defaults
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

## Command Mode

- /exec/configure/ldap

# deadtime

[no] deadtime <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

## Command Mode

- /exec/configure/tacacs+

# dec

dec <expr>

## Syntax Description

dec	calculator with results in decimal format
<i>expr</i>	the expression to compute (integer arithmetics)

## Command Mode

- /exec

## default-information originate

[no] default-information originate [ always ] [ route-map <map-name> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	RIP control distribution of default route
originate	RIP distribute a default route
always	(Optional) RIP always advertise default route
route-map	(Optional) Policy to constrain redistribution
<i>map-name</i>	(Optional) Route-map name

### Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

# default-information originate

[no] default-information originate [ always ] [ route-map <policy-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default route
originate	Distribute a default route
always	(Optional) Always advertise default route
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

# default-information originate

[no] default-information originate

## Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default information
originate	Distribute a default route

## Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv6-label  
/exec/configure/router-bgp/router-bgp-af-ipv4-label



# default-information originate

[no] default-information originate [ always ] [ route-map <map> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control origination of a default route
originate	Originate a default route
always	(Optional) Always advertise default route
route-map	(Optional) Use a route-map for default route metrics
<i>map</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

## default-information originate

[no] default-information originate [ always ] [ route-map <policy-name> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default route
originate	Distribute a default route
always	(Optional) Always advertise default route
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# default-information originate

[no] default-information originate [ always ] [ route-map <map-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control origination of a default route
originate	Originate a default route
always	(Optional) Always advertise default route
route-map	(Optional) Route-map to announce default routes
<i>map-name</i>	(Optional) A 'routing-rules' route-map name

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-common

# default-metric

default-metric <metric> | no default-metric [ <metric> ]

## Syntax Description

no	Negate a command or set its defaults
default-metric	RIP default metric
<i>metric</i>	RIP metric value

## Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

# default-metric

{ default-metric <cost> } | { no default-metric [ <cost> ] }

## Syntax Description

no	Negate a command or set its defaults
default-metric	Specify default metric for redistributed routes
<i>cost</i>	Metric value

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

# default-metric

[no] default-metric <metric>

## Syntax Description

no	(Optional) Negate a command or set its defaults
default-metric	Set metric of redistributed routes
<i>metric</i>	Default Metric

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

# default-metric

```
{ { default-metric <bw> <delay> <rel> <load> <mtu> } | { no default-metric [ <bw> <delay> <rel> <load> <mtu> ] } }
```

## Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>default-metric</code>	Set metric of redistributed routes
<code>bw</code>	Bandwidth in Kbits per second
<code>delay</code>	Delay metric
<code>rel</code>	Reliability metric where 255 is 100% reliable
<code>load</code>	Effective bandwidth metric (Loading) where 255 is 100% loaded
<code>mtu</code>	Maximum Transmission Unit metric of the path

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# default-metric

{ default-metric <cost> } | { no default-metric [ <cost> ] }

## Syntax Description

no	Negate a command or set its defaults
default-metric	Specify default metric for redistributed routes
<i>cost</i>	Metric value

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf



# default-originate

[ no | default ] default-originate [ route-map <rmap-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
default-originate	Originate a default toward this peer
route-map	(Optional) Route-map to specify criteria for originating default
<i>rmap-name</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

# define

[no] define <paramname> [ <paramtype> ] [ <paramdesc> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
define	Define a parameter
<i>paramname</i>	Enter the name of the parameter
<i>paramtype</i>	(Optional) param type
<i>paramdesc</i>	(Optional) Enter the parameter description

## Command Mode

- /exec/configure/param-list

# delay

delay { { up <up\_delay> [ down <down\_delay> ] } | { down <down\_delay> [ up <up\_delay> ] } } | no delay

## Syntax Description

no	Negate a command or set its defaults
delay	Tracking delay
up	Delay up change notification
<i>up_delay</i>	Seconds to delay
down	(Optional) Delay down change notification
<i>down_delay</i>	(Optional) Seconds to delay

## Command Mode

- /exec/configure/track /exec/configure/tr-list-bool /exec/configure/tr-list-thrp /exec/configure/tr-list-thrw

# delay

delay <delay\_val> | no delay [ <delay\_val> ]

## Syntax Description

no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>delay_val</i>	Throughput delay (tens of microseconds)

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub

# delay

delay <delay\_val> | no delay [ <delay\_val> ]

## Syntax Description

no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>delay_val</i>	Throughput delay (tens of microseconds)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-remote-ethernet-sub /exec/configure/if-port-channel-range

# delay

delay <microseconds> | no delay

## Syntax Description

no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>microseconds</i>	Throughput delay (tens of microseconds)

## Command Mode

- /exec/configure/if-vlan-common

# delay restore

delay restore <time-out> | no delay restore

## Syntax Description

no	Negate a command or set its defaults
delay	Initialization delay
restore	Delay after restoring peer-link
<i>time-out</i>	Delay in bringing up the vPC links (in seconds)

## Command Mode

- /exec/configure/vpc-domain

# delay restore interface-vlan

delay restore interface-vlan <time-out> | no delay restore interface-vlan

## Syntax Description

no	Negate a command or set its defaults
delay	Initialization delay
restore	Delay after restoring peer-link
interface-vlan	Delay in bringing-up interface-vlan
<i>time-out</i>	Delay in bringing up the interface-vlan (in seconds)

## Command Mode

- /exec/configure/vpc-domain



# delete

delete { <uri0> | <uri1> | <uri2> } [ no-prompt ]

## Syntax Description

delete	delete a file or directory
<i>uri0</i>	Delete a file or directory
<i>uri1</i>	Delete a file or directory on expansion flash
<i>uri2</i>	Directory or filename on logflash
no-prompt	(Optional) Do not prompt for multiple deletion of files

## Command Mode

- /exec

# delete ca-certificate

delete ca-certificate

## Syntax Description

delete	Delete the certificates
ca-certificate	Delete the ca certificates

## Command Mode

- /exec/configure/trustpoint

# delete certificate

delete certificate [ force ]

## Syntax Description

delete	Delete the certificates
certificate	Delete the identity certificate
force	(Optional) Force delete the identity certificate

## Command Mode

- /exec/configure/trustpoint

# delete crl

delete crl

## Syntax Description

delete	Delete the certificates
crl	Delete the CRL

## Command Mode

- /exec/configure/trustpoint

# demand-circuit

[no] demand-circuit

## Syntax Description

no	(Optional) Negate a command or set its defaults
demand-circuit	OSPF Demand circuit

## Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

# description

description <describe> | { no | default } description [ <describe> ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
description	Neighbor specific description
<i>describe</i>	Upto 80 characters describing this neighbor

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# description

description [ port-profile ] <desc\_line> | no description [ port-profile ] [ <desc\_line> ]

## Syntax Description

no	Negate a command or set its defaults
description	Enter port-profile description of maximum 80 characters
port-profile	(Optional) Hack for conf-sync
<i>desc_line</i>	Enter port-profile description of maximum 80 characters

## Command Mode

- /exec/configure/port-profile

# description

description <desc\_line> | no description [ <desc\_line> ]

## Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 254 characters
<i>desc_line</i>	Description of maximum 254 characters

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-eth-port-channel /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub /exec/configure/if-mgmt-ether /exec/configure/if-loopback /exec/configure/if-nve /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-remote-ethernet-sub /exec/configure/if-port-channel-range



# description

description <desc\_line> | no description [ <desc\_line> ]

## Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 80 characters
<i>desc_line</i>	Description of maximum 80 characters

## Command Mode

- /exec/configure/if-overlay /exec/configure/if-te /exec/configure/if-nve

# description

{ description <desc-str> | no description [ <desc-str> ] }

## Syntax Description

no	Negate a command or set its defaults
description	Class-Map description
<i>desc-str</i>	Description of this class-map (up to 200 characters)

## Command Mode

- /exec/configure/class-map/type/uf

# description

```
{ description <desc-str> | no description [ <desc-str> ] }
```

## Syntax Description

no	Negate a command or set its defaults
description	Policy-Map description
<i>desc-str</i>	Description of this policy-map (up to 200 characters)

## Command Mode

- /exec/configure/policy-map/type/uf

# description

```
{ [ no ] description <text> }
```

## Syntax Description

description	description for this profile
<i>text</i>	description

## Command Mode

- /exec/configure/dot1x-cred

# description

{ description <line> } | { no description }

## Syntax Description

no	Negate a command or set its defaults
description	Description of the VRF
<i>line</i>	VRF description string

## Command Mode

- /exec/configure/vrf

# description

```
{ description <description_text> | no description [ <description_text> ] }
```

## Syntax Description

no	Negate a command or set its defaults
description	Virtual service description
<i>description_text</i>	Description of this virtual service

## Command Mode

- /exec/configure/virt-serv

# description

description <desc\_line> | no description

## Syntax Description

no	Negate a command or set its defaults
description	Interface specific description
<i>desc_line</i>	Up to 255 characters describing this interface

## Command Mode

- /exec/configure/if-vlan-common

# description

```
{ [ no ] description <descrip-string> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
description	Provide a description string for the LISP site
<i>descrip-string</i>	Description string

## Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site



# description

[no] description <description>

## Syntax Description

no	(Optional) Negate a command or set its defaults
description	Configure description for the policy
<i>description</i>	Description for the policy

## Command Mode

- /exec/configure/event-manager-applet

# description

[no] description

## Syntax Description

no	Negate a command or set its defaults
description	Configure description for the policy

## Command Mode

- /exec/configure/event-manager-applet

# description

{ description <line> | no description }

## Syntax Description

no	Negate a command or set its defaults
description	Description of the route-map
<i>line</i>	Route-map description string

## Command Mode

- /exec/configure/route-map

# description

description <line> | no description

## Syntax Description

no	Negate a command or set its defaults
description	Add a description for the role
<i>line</i>	Enter the description string(can include spaces)

## Command Mode

- /exec/configure/role

# description

description <desc\_line> | no description [ <desc\_line> ]

## Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 254 characters
<i>desc_line</i>	Description of maximum 254 characters

## Command Mode

- /exec/configure/if-any-tunnel

# description

{ description <desc-str> | no description [ <desc-str> ] }

## Syntax Description

no	Negate a command or set its defaults
description	Class-Map description
<i>desc-str</i>	Description of this class-map (up to 200 characters)

## Command Mode

- /exec/configure/class-map

# description

[no] description <desc-str>

## Syntax Description

no	(Optional) Negate a command or set its defaults
description	Class-Map description
<i>desc-str</i>	Description of this class-map (up to 200 characters)

## Command Mode

- /exec/configure/class-map/type/queuing

# description

{ description <desc-str> | no description [ <desc-str> ] }

## Syntax Description

no	Negate a command or set its defaults
description	Table-Map description
<i>desc-str</i>	Description of this table-map (up to 200 characters)

## Command Mode

- /exec/configure/table-map



# description

{ description <desc-str> | no description [ <desc-str> ] }

## Syntax Description

no	Negate a command or set its defaults
description	Policy-Map description
<i>desc-str</i>	Description of this policy-map (up to 200 characters)

## Command Mode

- /exec/configure/policy-map /exec/configure/policy-map/type/queuing

# description

[no] description [ <desc> ] | description <desc>

## Syntax Description

no	Negate a command or set its defaults
description	Group description
<i>desc</i>	(Optional) Up to 80 characters describing this group

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# description

[no] description | description <desc>

## Syntax Description

no	(Optional) Negate a command or set its defaults
description	Pathway description
<i>desc</i>	Up to 80 characters describing this pathway

## Command Mode

- /exec/configure/if-eth-any/vrrs

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this Flow Record
<i>line</i>	Record description string (63 characters maximum)

## Command Mode

- /exec/configure/nfm-record

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this Flow Monitor
<i>line</i>	Monitor description string (63 characters maximum)

## Command Mode

- /exec/configure/nfm-monitor

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this Flow Exporter
<i>line</i>	Monitor description string (63 characters maximum)

## Command Mode

- /exec/configure/nfm-exporter

# description

{ [ no ] description <line> | no description }

## Syntax Description

description	Provide a description for this Flow Sampler
<i>line</i>	Sampler description string (63 characters maximum)

## Command Mode

- /exec/configure/nfm-sampler

# dest-ipaddr

```
{ { no | default } dest-ipaddr | dest-ipaddr { <ip-address> | <hostname> } }
```

## Syntax Description

no	Negate a command or set its defaults
default	Set a command to its defaults
dest-ipaddr	Destination ip address
<i>ip-address</i>	IP address, broadcast disallowed
<i>hostname</i>	IP Hostname, broadcast disallowed

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp



# dest-port

{ { no | default } dest-port | dest-port <port> }

## Syntax Description

no	
default	Set a command to its defaults
dest-port	Destination port
<i>port</i>	udp port number

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp

# destination-profile

[no] destination-profile <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name

## Command Mode

- /exec/configure/callhome

# destination-profile

[no] destination-profile <s0> email-addr <s1>

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name
email-addr	Add email addr
s1	Provide email address, example: jdow@xyz.com

## Command Mode

- /exec/configure/callhome

# destination-profile

[no] destination-profile <s4> { http <s2> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s4	User defined destination profile name
http	Add http or https url
s2	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

## Command Mode

- /exec/configure/callhome

# destination-profile

[no] destination-profile <s5> transport-method email

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s5	User defined destination profile name
transport-method	Callhome message sending transport-method
email	email transport-method

## Command Mode

- /exec/configure/callhome

# destination-profile

[no] destination-profile <s6> transport-method http

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s6	User defined destination profile name
transport-method	Callhome message sending transport-method
http	http transport-method

## Command Mode

- /exec/configure/callhome

# destination-profile

destination-profile <s0> format { full-txt | short-txt | XML }

## Syntax Description

destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
format	Callhome message format (default XML)
full-txt	Plain text message format
short-txt	Short text message format
XML	XML message format

## Command Mode

- /exec/configure/callhome

# destination-profile

destination-profile <s0> message-level <i0>

## Syntax Description

destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

## Command Mode

- /exec/configure/callhome



# destination-profile

destination-profile <*s0*> message-size <*i0*>

## Syntax Description

destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
message-size	Configure maximum message size (default 2500000)
<i>i0</i>	Provide maximum possible message size

## Command Mode

- /exec/configure/callhome

# destination-profile CiscoTAC-1 email-addr

[no] destination-profile CiscoTAC-1 email-addr <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

## Command Mode

- /exec/configure/callhome

## destination-profile CiscoTAC-1 http

[no] destination-profile CiscoTAC-1 http <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

### Command Mode

- /exec/configure/callhome

# destination-profile CiscoTAC-1 message-level

destination-profile CiscoTAC-1 message-level <i0>

## Syntax Description

destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

## Command Mode

- /exec/configure/callhome

## destination-profile CiscoTAC-1 message-size

destination-profile CiscoTAC-1 message-size <i0>

### Syntax Description

destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
message-size	Configure maximum message size (default 5000000)
<i>i0</i>	Provide maximum possible message size

### Command Mode

- /exec/configure/callhome

## destination-profile CiscoTAC-1 transport-method email

[no] destination-profile CiscoTAC-1 transport-method email

### Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
transport-method	Callhome message sending transport-method
email	email transport-method

### Command Mode

- /exec/configure/callhome

## destination-profile CiscoTAC-1 transport-method http

[no] destination-profile CiscoTAC-1 transport-method http

### Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
transport-method	Callhome message sending transport-method
http	http transport-method

### Command Mode

- /exec/configure/callhome

# destination-profile full-txt-destination email-addr

[no] destination-profile full-txt-destination email-addr <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

## Command Mode

- /exec/configure/callhome



## destination-profile full-txt-destination http

[no] destination-profile full-txt-destination http <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

### Command Mode

- /exec/configure/callhome

# destination-profile full-txt-destination message-level

destination-profile full-txt-destination message-level <i0>

## Syntax Description

destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

## Command Mode

- /exec/configure/callhome

# destination-profile full-txt-destination message-size

destination-profile full-txt-destination message-size <i0>

## Syntax Description

destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
message-size	Configure maximum message size (default 2500000)
<i>i0</i>	Provide maximum possible message size

## Command Mode

- /exec/configure/callhome

# destination-profile full-txt-destination transport-method email

[no] destination-profile full-txt-destination transport-method email

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
transport-method	Callhome message sending transport-method
email	email transport-method

## Command Mode

- /exec/configure/callhome

## destination-profile full-txt-destination transport-method http

[no] destination-profile full-txt-destination transport-method http

### Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
transport-method	Callhome message sending transport-method
http	http transport-method

### Command Mode

- /exec/configure/callhome

# destination-profile short-txt-destination email-addr

[no] destination-profile short-txt-destination email-addr <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

## Command Mode

- /exec/configure/callhome

## destination-profile short-txt-destination http

[no] destination-profile short-txt-destination http <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

### Command Mode

- /exec/configure/callhome

# destination-profile short-txt-destination message-level

destination-profile short-txt-destination message-level <i0>

## Syntax Description

destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

## Command Mode

- /exec/configure/callhome



# destination-profile short-txt-destination message-size

destination-profile short-txt-destination message-size <i0>

## Syntax Description

destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
message-size	Configure maximum message size (default 4000)
<i>i0</i>	

## Command Mode

- /exec/configure/callhome

# destination-profile short-txt-destination transport-method email

[no] destination-profile short-txt-destination transport-method email

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
transport-method	Callhome message sending transport-method
email	email transport-method

## Command Mode

- /exec/configure/callhome

# destination-profile short-txt-destination transport-method http

[no] destination-profile short-txt-destination transport-method http

## Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
transport-method	Callhome message sending transport-method
http	http transport-method

## Command Mode

- /exec/configure/callhome

# destination

[no] destination | destination <ipaddr>

## Syntax Description

no	Negate a command or set its defaults
destination	destination of tunnel
<i>ipaddr</i>	ip address (A.B.C.D)

## Command Mode

- /exec/configure/if-te

# destination

```
{ [ no ] destination { <ipaddr> | <ipv6addr> } [ use-vrf { <vrf_name> | <vrf-known-name> } ] | no destination }
```

## Syntax Description

<code>destination</code>	Specify the destination address
<code>ipaddr</code>	Destination IP address for collector
<code>use-vrf</code>	(Optional) Optional VRF label
<code>vrf_name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(Optional) Known VRF name

## Command Mode

- /exec/configure/nfm-exporter

# device-group

{ device-group <name> } | { no device-group <name> }

## Syntax Description

no	Negate a command or set its defaults
device-group	ITD device group
<i>name</i>	ITD device group name

## Command Mode

- /exec/configure/itd

# diagnostic bootup level

[no] diagnostic bootup level

## Syntax Description

no	Negate a command or set its defaults
diagnostic	Diagnostic commands
bootup	Configure Diagnostic for bootup
level	Select diagnostic level

## Command Mode

- /exec/configure

# diagnostic eem action aggressive

[no] diagnostic eem action aggressive

## Syntax Description

no	(Optional) Negate a command or set its defaults
diagnostic	Diagnostic commands
eem	Configure Diagnostic for eem
action	Select diagnostic action
aggressive	Take aggressive default actions

## Command Mode

- /exec/configure



# diagnostic pss shrink

diagnostic pss shrink

## Syntax Description

diagnostic	Diagnostic commands
pss	PSS command
shrink	compact the diag_port_lb PSS

## Command Mode

- /exec

# diff-clean

diff-clean [ all-sessions ]

## Syntax Description

diff-clean	remove temp files created by '  diff' filters
all-sessions	(Optional) remove '  diff' temp files from all sessions (past and present!) of current user

## Command Mode

- /exec

# diff-clean all-users

diff-clean all-users

## Syntax Description

diff-clean	remove temp files created by '  diff' filters
all-users	remove '  diff' temp files from all sessions (past and present!) of all users

## Command Mode

- /exec

# diff

diff [ again | echo | -c [ <lines> ] | -b | -B | -i | -I <regexp> | -y | --left-column | -W <columns> | -q | -s ] +

## Syntax Description

	Pipe command output to filter
diff	show difference between current and previous invocation (creates temp files: remove them with 'diff-clean' command and dont use it on commands with big outputs, like 'show tech!')
again	(Optional) dont create new file: use old ones, just change display options or add more filters
echo	(Optional) echo the current file (only effective if no old file)
-c	(Optional) set number of lines of context (default 3)
<i>lines</i>	(Optional) number of lines of context
-b	(Optional) Ignore changes in amount of white space
-B	(Optional) Ignore changes that just insert or delete blank lines
-i	(Optional) Ignore changes in case
-I	(Optional) Ignore changes that just insert or delete lines that match regexp
<i>regexp</i>	(Optional) regexp of lines to ignore
-y	(Optional) Use the side by side output format
--left-column	(Optional) Print only the left column of two common lines in side by side format
-W	(Optional) Use an output width of <columns> in side by side format
<i>columns</i>	(Optional) Use an output width of <columns> in side by side format
-q	(Optional) Report only whether the files differ, not the details of the differences
-s	(Optional) Report when two files are the same

## Command Mode

- /output

# dir

dir [ <uri0> | <uri1> | <uri2> ]

## Syntax Description

dir	list files in a directory
<i>uri0</i>	(Optional) Directory or filename
<i>uri1</i>	(Optional) Directory or filename on expansion flash
<i>uri2</i>	(Optional) Directory or filename on log flash

## Command Mode

- /exec

# disable-connected-check

[ no | default ] disable-connected-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
disable-connected-check	Disable check for directly connected peer

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# disable-memory-alert-check

[no] disable-memory-alert-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
disable-memory-alert-check	Disables the system memory alert handling in BGP

## Command Mode

- /exec/configure/router-bgp

# disable-peer-as-check

[ no | default ] disable-peer-as-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
disable-peer-as-check	Disable checking of peer AS-number while advertising

## Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4  
/exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af



# disable-peer-as-check

[ no | default ] disable-peer-as-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
disable-peer-as-check	Disable checking of peer AS-number while advertising

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

# disable-policy-batching

[no] disable-policy-batching [ { ipv4 | ipv6 } prefix-list <prfxlist-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
disable-policy-batching	Disable batching evaluation of outbound policy for a peer
ipv4	(Optional) IPv4 address-family
ipv6	(Optional) IPv6 address-family
prefix-list	(Optional) Apply prefix-list
<i>prfxlist-name</i>	(Optional) Name of prefix-list

## Command Mode

- /exec/configure/router-bgp

# disable

disable

## Syntax Description

disable	disable callhome
---------	------------------

## Command Mode

- /exec/configure/callhome

# discard-route

[no] discard-route { external | internal }

## Syntax Description

no	(Optional) Negate a command or set its defaults
discard-route	Install discard route
external	External route
internal	Internal route

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# discard-route

[no] discard-route { external | internal }

## Syntax Description

no	(Optional) Negate a command or set its defaults
discard-route	Install discard route
external	External route
internal	Internal route

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# discovery

```
discovery { quick-start | hello { holdtime <link-hello-holdtime> | interval <link-hello-intvl> } | targeted-hello
{ accept [ from <pfx-list> ] | tgt-holdtime <tgt-hello-holdtime> | tgt-interval <tgt-hello-intvl> } |
ignore-transport-address | omit-transport-address | spoofing } | no discovery { quick-start | hello { holdtime |
interval } | targeted-hello { accept | tgt-holdtime | tgt-interval } | ignore-transport-address | omit-transport-address
| spoofing }
```

## Syntax Description

no	Negate a command or set its defaults
discovery	LDP discovery
quick-start	Enable quick LDP Hello transmissions on interface up
hello	LDP discovery Hello
interval	LDP discovery Hello interval
holdtime	LDP discovery Hello holdtime
<i>link-hello-holdtime</i>	Holdtime in seconds
<i>link-hello-intvl</i>	Hello interval in seconds
targeted-hello	LDP discovery Targeted Hello
accept	Accept targeted hellos
from	(Optional) Prefix list to specify acceptable targeted hello sources
<i>pfx-list</i>	(Optional) Name of prefix list
tgt-holdtime	LDP discovery Targeted Hello holdtime
<i>tgt-hello-holdtime</i>	Holdtime in seconds
tgt-interval	LDP discovery Targeted Hello interval
<i>tgt-hello-intvl</i>	Hello interval in seconds
ignore-transport-address	
omit-transport-address	
spoofing	

## Command Mode

- /exec/configure/ldp

# distance

distance <distance> | no distance [ <distance> ]

## Syntax Description

no	Negate a command or set its defaults
distance	RIP administrative distance
<i>distance</i>	RIP administrative distance

## Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

# distance

distance <admin-dist> | no distance [ <admin-dist> ]

## Syntax Description

no	Negate a command or set its defaults
distance	OSPFv3 administrative distance
<i>admin-dist</i>	administrative distance value

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6



# distance

distance <ebgp-dist> <ibgp-dist> <local-dist> | no distance [ <ebgp-dist> <ibgp-dist> <local-dist> ]

## Syntax Description

no	Negate a command or set its defaults
distance	Configure administrative distance
<i>ebgp-dist</i>	Distance for EBGp routes
<i>ibgp-dist</i>	Distance for IBGP routes
<i>local-dist</i>	Distance for local routes

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

# distance

```
{ { distance <int-distance> <ext-distance> } | { no distance [ <int-distance> <ext-distance> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
distance	Define an administrative distance
<i>int-distance</i>	Distance for internal routes
<i>ext-distance</i>	Distance for external routes

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# distance

distance <admin-dist> | no distance [ <admin-dist> ]

## Syntax Description

no	Negate a command or set its defaults
distance	OSPF administrative distance
<i>admin-dist</i>	administrative distance value

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# distance

distance <admin-dist> | no distance [ <admin-dist> ]

## Syntax Description

no	Negate a command or set its defaults
distance	Administrative distance
<i>admin-dist</i>	Distance value

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-common

# distribute-list

[no] distribute-list { { route-map <map> } | { prefix-list <list> } } { in | out } <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
distribute-list	Filter networks in routing updates
route-map	Use a route-map for route filtering
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for route filtering
<i>list</i>	Reference to prefix-list name
in	Filter incoming routing updates
out	Filter outgoing routing updates
<i>interface</i>	Interface name

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# distribute

```
{ { distribute <src-level> into <dst-level> { { route-map { <map-name> | <rtr_pol_name> } } | all } } | { no
distribute <src-level> into <dst-level> [ { route-map { <map-name> | <rtr_pol_name> } } | all ] } }
```

## Syntax Description

no	Negate a command or set its defaults
distribute	Distribute routes between ISIS levels
<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
route-map	Route Map to constrain distribution
into	from level-n into level-m
<i>map-name</i>	A 'routing-rules' route-map name
<i>rtr_pol_name</i>	
all	Distribute all level-n routes

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-common

# dns

```
[no] dns { <WORD> } { name-server { <hostname> | <ip-address> } } { [ source-ip { <source-ip-hostname> | <source-ip-address> } ] | [ source-port <src-port> ] } +
```

## Syntax Description

no	(Optional)
<i>source-ip</i>	(Optional) source-port
<i>src-port</i>	(Optional)
dns	DNS Operation
<i>WORD</i>	Target IP Address or Hostname
name-server	Name Server
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed
source-port	(Optional) Source Port

## Command Mode

- /exec/configure/ip-sla

# dont-capability-negotiate

[ no | default ] dont-capability-negotiate

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
dont-capability-negotiate	Don't negotiate capability with this neighbor

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess



# dos2nxos

dos2nxos <uri0>

## Syntax Description

dos2nxos	DOS to NXOS text file format converter
<i>uri0</i>	Filename to be displayed

## Command Mode

- /exec

## dot1q default dynamic

{ dot1q default dynamic } | { no dot1q default }

### Syntax Description

no	Negate a command or set its defaults
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
default	Default (wildcard). Match any dot1q when there is no specific dot1q mapping configured

### Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# dot1x default

dot1x default

## Syntax Description

dot1x	dot1x configuration commands
-------	------------------------------

## Command Mode

- /exec/configure

# dot1x default

dot1x default

## Syntax Description

dot1x	dot1x configuration commands
-------	------------------------------

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# dot1x mac-auth-bypass

dot1x mac-auth-bypass [ eap ] | no dot1x mac-auth-bypass

## Syntax Description

no	Negate a command or set its defaults
dot1x	dot1x configuration commands
mac-auth-bypass	Configure Mac-Auth-Bypass
eap	(Optional) EAP Authentication

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

## dot1x max-reauth-req

dot1x max-reauth-req <count> | no dot1x max-reauth-req

### Syntax Description

dot1x	dot1x configuration commands
max-reauth-req	Maximum Re-authentication Attempts Before Failing
<i>count</i>	number of retries

### Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# dot1x max-req

dot1x max-req <count> | no dot1x max-req

## Syntax Description

dot1x	dot1x configuration commands
max-req	Maximum Retries to Initiate Authentication
<i>count</i>	number of retries

## Command Mode

- /exec/configure

# dot1x max-req

dot1x max-req <count> | no dot1x max-req

## Syntax Description

dot1x	dot1x configuration commands
max-req	Maximum Retries to Initiate Authentication
<i>count</i>	number of retries

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all



# dot1x port-control

[no] dot1x port-control <port-control-value>

## Syntax Description

dot1x	dot1x configuration commands
port-control	port control
<i>port-control-value</i>	set the port-control value

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# dot1x radius-accounting

[no] dot1x radius-accounting

## Syntax Description

dot1x	dot1x configuration commands
radius-accounting	accounting messages to RADIUS

## Command Mode

- /exec/configure

# dot1x re-authenticate

{ dot1x re-authenticate } | { dot1x re-authenticate interface <if> }

## Syntax Description

dot1x	dot1x configuration commands
re-authenticate	Manually re-authenticate an Interface
<i>if</i>	target interface

## Command Mode

- /exec

# dot1x re-authentication

[no] dot1x re-authentication

## Syntax Description

dot1x	dot1x configuration commands
re-authentication	Enable or Disable Reauthentication for this port

## Command Mode

- /exec/configure

# dot1x re-authentication

[no] dot1x re-authentication

## Syntax Description

dot1x	dot1x configuration commands
re-authentication	Enable or Disable Reauthentication for this port

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# dot1x show credential

dot1x show credential <name>

## Syntax Description

dot1x	dot1x configuration commands
credential	supplicant credential profile
<i>name</i>	profile name

## Command Mode

- /exec/configure/dot1x-cred

# dot1x system-auth-control

[no] dot1x system-auth-control

## Syntax Description

dot1x	dot1x configuration commands
system-auth-control	Enable or Disable SysAuthControl

## Command Mode

- /exec/configure

## dot1x timeout quiet-period

dot1x timeout quiet-period <value> | no dot1x timeout quiet-period

### Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
quiet-period	Timeout For Retrying Authentication After Failed Authentication
<i>value</i>	time interval in seconds

### Command Mode

- /exec/configure



# dot1x timeout quiet-period

dot1x timeout quiet-period <value> | no dot1x timeout quiet-period

## Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
quiet-period	Timeout For Retrying Authentication After Failed Authentication
<i>value</i>	time interval in seconds

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

## dot1x timeout ratelimit-period

dot1x timeout ratelimit-period <value> | no dot1x timeout ratelimit-period

### Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
ratelimit-period	Rate Limit period for EAPOL-Start
<i>value</i>	time interval in seconds

### Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# dot1x timeout re-authperiod

dot1x timeout re-authperiod <value> | no dot1x timeout re-authperiod

## Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
re-authperiod	Timeout For Re-Authentication
<i>value</i>	time interval in seconds

## Command Mode

- /exec/configure

## dot1x timeout re-authperiod

dot1x timeout re-authperiod <value> | no dot1x timeout re-authperiod

### Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
re-authperiod	Timeout For Re-Authentication
<i>value</i>	time interval in seconds

### Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

## dot1x timeout server-timeout

dot1x timeout server-timeout <value> | no dot1x timeout server-timeout

### Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
server-timeout	Timeout for Radius Retries
<i>value</i>	time interval in seconds

### Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

## dot1x timeout supp-timeout

dot1x timeout supp-timeout <value> | no dot1x timeout supp-timeout

### Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
supp-timeout	Timeout for Supplicant retries
<i>value</i>	time interval in seconds

### Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# dot1x timeout tx-period

dot1x timeout tx-period <value> | no dot1x timeout tx-period

## Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
tx-period	Timeout For Resending Requests To Supplicant
<i>value</i>	time interval in seconds

## Command Mode

- /exec/configure

## dot1x timeout tx-period

dot1x timeout tx-period <value> | no dot1x timeout tx-period

### Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
tx-period	Timeout For Resending Requests To Supplicant
<i>value</i>	time interval in seconds

### Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all



# down-bit-ignore

{ down-bit-ignore } | { no down-bit-ignore }

## Syntax Description

no	Negate a command or set its defaults
down-bit-ignore	Configure a PE router to ignore the DN bit for network summary, external and NSSA external LSA

## Command Mode

- /exec/configure/router-ospf/vrf

# downlink delay

downlink delay <ena-dis-flg> [ timeout <time-out> ] | no downlink delay

## Syntax Description

no	Negate a command or set its defaults
downlink	Change downlink linkup time
delay	delay bringup of downlinks
<i>ena-dis-flg</i>	Enable/Disable downlink delay feature
timeout	(Optional) downlink ports enable delay in seconds
<i>time-out</i>	(Optional) Time out

## Command Mode

- /exec/configure

# dscp

{ [ no ] dscp <dscp> | no dscp }

## Syntax Description

dscp	Optional DSCP
<i>dscp</i>	Differentiated services codepoint value

## Command Mode

- /exec/configure/nfm-exporter

## dual-active exclude interface-vlan

dual-active exclude interface-vlan <allow-vlans> | no dual-active exclude interface-vlan

### Syntax Description

no	Negate a command or set its defaults
dual-active	Configuration when peer link is down but peer is alive
interface-vlan	Interface vlan configuration
exclude	Interface vlans to exclude from suspension when dual-active
<i>allow-vlans</i>	Set allowed interface vlans

### Command Mode

- /exec/configure/vpc-domain

# duplex

duplex <duplex\_mode> | no duplex [ <duplex\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
duplex	Enter the port duplex mode
<i>duplex_mode</i>	Interface duplex mode

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member

# duplex

duplex <duplex\_mode> | no duplex [ <duplex\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
duplex	Enter the port duplex mode
<i>duplex_mode</i>	Interface duplex mode

## Command Mode

- /exec/configure/if-port-channel

# duplex

duplex <duplex\_mode> | no duplex [ <duplex\_mode> ]

## Syntax Description

no	Negate a command or set its defaults
duplex	Enter the port duplex mode
<i>duplex_mode</i>	Interface duplex mode

## Command Mode

- /exec/configure/if-mgmt-ether

# duplicate-message throttle

[no] duplicate-message throttle

## Syntax Description

no	(Optional) Negate a command or set its defaults
duplicate-message	Configure throttling of duplicate callhome alert messages
throttle	Enable throttling of duplicate callhome alert messages

## Command Mode

- /exec/configure/callhome



# dynamic-capability

[ no | default ] dynamic-capability

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
dynamic-capability	Dynamic capability

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# dynamic-med-interval

[no] dynamic-med-interval <sec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
dynamic-med-interval	Sets the interval for dampening of med changes
<i>sec</i>	Time interval in seconds

## Command Mode

- /exec/configure/router-bgp



## E Commands

---

- [ebgp-multihop](#), on page 892
- [echo](#), on page 893
- [eid-notify](#), on page 894
- [eid-notify authentication-key](#), on page 895
- [eid-prefix](#), on page 896
- [eltn distribute](#), on page 897
- [email-addr](#), on page 898
- [email-contact](#), on page 899
- [email](#), on page 900
- [email](#), on page 901
- [enable](#), on page 902
- [enable](#), on page 903
- [enable](#), on page 904
- [encapsulation dot1Q](#), on page 905
- [encapsulation dot1Q](#), on page 906
- [encrypt pause-frame](#), on page 907
- [encryption decrypt type6](#), on page 908
- [encryption delete type6](#), on page 909
- [encryption re-encrypt obfuscated](#), on page 910
- [end-job](#), on page 911
- [end](#), on page 912
- [enforce-first-as](#), on page 913
- [enrollment terminal](#), on page 914
- [errdisable detect cause acl-exception](#), on page 915
- [errdisable port detect cause acl-exception](#), on page 916
- [errdisable recovery interval](#), on page 917
- [ethalyzer local](#), on page 918
- [ethernet-tag encapsulation dot1q](#), on page 919
- [ethernet-tag encapsulation dot1q default](#), on page 920
- [ethernet-tag encapsulation vni](#), on page 921
- [ethernet-tag encapsulation vni default](#), on page 922
- [evb batch-response disable](#), on page 923
- [evb mac](#), on page 924

- `evb reinit-keep-alive`, on page 925
- `evb resource-wait-delay`, on page 926
- `event-history`, on page 927
- `event-history`, on page 928
- `event-history adbm category all`, on page 929
- `event-history adbm category fc2`, on page 930
- `event-history adbm category mts`, on page 931
- `event-history adbm no category all`, on page 932
- `event-history adbm no category fc2`, on page 933
- `event-history adbm no category mts`, on page 934
- `event-history callhome`, on page 935
- `event-history capability`, on page 936
- `event-history copp category all`, on page 937
- `event-history copp category fc2`, on page 938
- `event-history copp category mts`, on page 939
- `event-history copp no category all`, on page 940
- `event-history copp no category fc2`, on page 941
- `event-history copp no category mts`, on page 942
- `event-history detail`, on page 943
- `event-history dot1x`, on page 944
- `event-history eltm category all`, on page 945
- `event-history eltm category fc2`, on page 946
- `event-history eltm category mts`, on page 947
- `event-history eltm no category all`, on page 948
- `event-history eltm no category fc2`, on page 949
- `event-history eltm no category mts`, on page 950
- `event-history ethpm`, on page 951
- `event-history exceptionlog`, on page 952
- `event-history im no category mts`, on page 954
- `event-history interface vlan`, on page 955
- `event-history interface vlan`, on page 956
- `event-history interface vlan`, on page 957
- `event-history lacp category all`, on page 958
- `event-history lacp category fc2`, on page 959
- `event-history lacp category mts`, on page 960
- `event-history lacp no category all`, on page 961
- `event-history lacp no category fc2`, on page 962
- `event-history lacp no category mts`, on page 963
- `event-history license`, on page 964
- `event-history lldp category all`, on page 965
- `event-history lldp category fc2`, on page 966
- `event-history lldp category mts`, on page 967
- `event-history lldp no category all`, on page 968
- `event-history lldp no category fc2`, on page 969
- `event-history lldp no category mts`, on page 970
- `event-history mmode`, on page 971

- event-history module, on page 972
- event-history pfstat category all, on page 973
- event-history pfstat category fc2, on page 974
- event-history pfstat category mts, on page 975
- event-history pfstat no category all, on page 976
- event-history pfstat no category fc2, on page 977
- event-history pfstat no category mts, on page 978
- event-history platform buffer-size, on page 979
- event-history platform category, on page 980
- event-history platform no category, on page 981
- event-history pltfm\_config category all, on page 982
- event-history pltfm\_config category fc2, on page 983
- event-history pltfm\_config category mts, on page 984
- event-history pltfm\_config no category all, on page 985
- event-history pltfm\_config no category fc2, on page 986
- event-history pltfm\_config no category mts, on page 987
- event-history plugin, on page 988
- event-history poap category all, on page 989
- event-history poap category fc2, on page 990
- event-history poap category mts, on page 991
- event-history poap no category all, on page 992
- event-history poap no category fc2, on page 993
- event-history poap no category mts, on page 994
- event-history port-profile, on page 995
- event-history port-profile, on page 996
- event-history port-security category all, on page 997
- event-history port-security category fc2, on page 998
- event-history port-security category mts, on page 999
- event-history port-security no category all, on page 1000
- event-history port-security no category fc2, on page 1001
- event-history port-security no category mts, on page 1002
- event-history port\_client category all, on page 1003
- event-history port\_client category fc2, on page 1004
- event-history port\_client category mts, on page 1005
- event-history port\_client no category all, on page 1006
- event-history port\_client no category fc2, on page 1007
- event-history port\_client no category mts, on page 1008
- event-history private-vlan, on page 1009
- event-history private-vlan, on page 1010
- event-history private-vlan, on page 1011
- event-history sensor, on page 1012
- event-history session-mgr category all, on page 1013
- event-history session-mgr category mts, on page 1014
- event-history session-mgr no category all, on page 1015
- event-history session-mgr no category mts, on page 1016
- event-history sflow, on page 1017

- [event-history snmp](#), on page 1018
- [event-history spanning-tree category all](#), on page 1019
- [event-history stripcl category all](#), on page 1020
- [event-history stripcl category mts](#), on page 1021
- [event-history stripcl no category all](#), on page 1022
- [event-history uddl category all](#), on page 1023
- [event-history vdc category all](#), on page 1024
- [event-history vdc no category all](#), on page 1025
- [event-history vdc no category mts](#), on page 1026
- [event-history xbar category all](#), on page 1027
- [event-history xbar category mts](#), on page 1028
- [event-history xbar no category all](#), on page 1029
- [event-history xbar no category mts](#), on page 1030
- [event-log-size](#), on page 1031
- [event-logging](#), on page 1032
- [event](#), on page 1033
- [event](#), on page 1034
- [event application](#), on page 1035
- [event cli](#), on page 1036
- [event counter](#), on page 1037
- [event fanabsent](#), on page 1038
- [event fanbad](#), on page 1039
- [event manager applet](#), on page 1040
- [event manager clear counter](#), on page 1041
- [event manager clear history events](#), on page 1042
- [event manager command maximum-timeout](#), on page 1043
- [event manager environment](#), on page 1044
- [event manager policy](#), on page 1045
- [event manager run](#), on page 1046
- [event manager script](#), on page 1047
- [event memory](#), on page 1048
- [event module-failure](#), on page 1049
- [event module](#), on page 1050
- [event none](#), on page 1051
- [event oir](#), on page 1052
- [event oir](#), on page 1053
- [event oir](#), on page 1054
- [event policy-default count](#), on page 1055
- [event poweroverbudget](#), on page 1056
- [event snmp](#), on page 1057
- [event storm-control](#), on page 1059
- [event sysmgr memory](#), on page 1060
- [event sysmgr switchover count](#), on page 1061
- [event temperature](#), on page 1062
- [event timer](#), on page 1063
- [event track](#), on page 1064

- [exceptionlog module](#), on page 1065
- [exclude access-list](#), on page 1066
- [exec-timeout](#), on page 1067
- [exec-timeout](#), on page 1068
- [exit](#), on page 1069
- [exit](#), on page 1070
- [exp](#), on page 1071
- [explicit-null](#), on page 1072
- [explicit-path](#), on page 1073
- [export map](#), on page 1074
- [export vrf default](#), on page 1075
- [exporter](#), on page 1076

# ebgp-multihop

ebgp-multihop <ebgp-ttl> | { no | default } ebgp-multihop [ <ebgp-ttl> ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
ebgp-multihop	Specify multihop TTL for remote peer
<i>ebgp-ttl</i>	EBGP TTL value

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess



# echo

echo [ -e ] [ <line> ]

## Syntax Description

echo	echo argument back to screen (useful for scripts)
-e	(Optional) enable interpretation of the backslash-escaped characters
<i>line</i>	(Optional) the string to echo (use quotes if string contains spaces)

## Command Mode

- /exec

# eid-notify

[no] eid-notify <addr> key <auth-key>

## Syntax Description

no	(Optional) Negate a command or set its defaults
eid-notify	First hop xTR notification
<i>addr</i>	Address of the first-hop xTR to be notified
key	Authentication key used by EID-Notify destinations
<i>auth-key</i>	SHA-1 password

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

# eid-notify authentication-key

[no] eid-notify authentication-key <key>

## Syntax Description

no	(Optional) Negate a command or set its defaults
eid-notify	First hop xTR notification
authentication-key	Authentication key used by EID-Notify destinations
<i>key</i>	SHA-1 password

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

# eid-prefix

```
{ [ no ] eid-prefix { <eid-prefix> | <eid-prefix6> } [ instance-id <iid> ] [ route-tag <tag> ] [
accept-more-specifics ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
eid-prefix	EID-prefix for LISP site
<i>eid-prefix</i>	IP EID-prefix of the site
instance-id	(Optional) Configures instance-ID for site's EID-prefix
<i>iid</i>	(Optional) 24-bit instance-ID value
route-tag	(Optional) Route tag for LISP EID-prefix routes
<i>tag</i>	(Optional) 32-bit value for tag
accept-more-specifics	(Optional) Allow more-specifics of site EID-prefix to register

## Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site

# eltm distribute

[no] eltm distribute

## Syntax Description

no	(Optional)
eltm	ELTM Configuration
distribute	Distribute ELTM Info to clients

## Command Mode

- /exec/configure

# email-addr

[no] email-addr <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
email-addr	Add email addr to send output of jobs configured for this schedule
s0	Provide email address, example: jdow@xyz.com

## Command Mode

- /exec/configure/schedule

# email-contact

{ email-contact <s0> | no email-contact }

## Syntax Description

no	Negate a command or set its defaults
email-contact	email address of the contact person
s0	Provide email address, example: jdow@xyz.com

## Command Mode

- /exec/configure/callhome

# email

[no] email

## Syntax Description

no	(Optional) Negate a command or set its defaults
email	Configure pipe email

## Command Mode

- /exec/configure



# email

email [-f <fromemail> | -r <replytoemail> | -S <smtphost> | -P <smtpport> | -s <subject> | -c <vrf-known-name>] + <toemail>

## Syntax Description

	Pipe command output to filter
email	Email command output
-f	(Optional) From address
<i>fromemail</i>	(Optional) Email address
-r	(Optional) Reply to address
<i>replytoemail</i>	(Optional) Email address
-S	(Optional) SMTP host
<i>smtphost</i>	(Optional) IPV4/IPV6 address or DNS name
-P	(Optional) SMTP port
<i>smtpport</i>	(Optional) SMTP port number
-s	(Optional) Subject
<i>subject</i>	(Optional) Email subject
-c	(Optional) VRF
<i>vrf-known-name</i>	(Optional) VRF name
<i>toemail</i>	Recipient email address

## Command Mode

- /output

# enable

enable [ <enable-level> ]

## Syntax Description

enable	Turn on privileged commands
<i>enable-level</i>	(Optional) Enable Level

## Command Mode

- /exec

# enable

[no] enable { Cert-DN-match | user-server-group }

## Syntax Description

no	(Optional) Negate a command or set its defaults
enable	Enable
user-server-group	Enable/Disable group validation
Cert-DN-match	Enable/Disable Cert-DN matching

## Command Mode

- /exec/configure/ldap

# enable

[no] enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
enable	enable callhome

## Command Mode

- /exec/configure/callhome

# encapsulation dot1Q

encapsulation dot1Q <vlan\_id> | no encapsulation dot1Q [ <vlan\_id> ]

## Syntax Description

no	Negate a command or set its defaults
encapsulation	Set encapsulation type for an interface
dot1Q	IEEE 802.1Q Virtual LAN
<i>vlan_id</i>	IEEE 802.1Q VLAN ID required

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub

# encapsulation dot1Q

encapsulation dot1Q <vlan\_id> | no encapsulation dot1Q [ <vlan\_id> ]

## Syntax Description

no	Negate a command or set its defaults
encapsulation	Set encapsulation type for an interface
dot1Q	IEEE 802.1Q Virtual LAN
<i>vlan_id</i>	IEEE 802.1Q VLAN ID required

## Command Mode

- /exec/configure/if-gig-ether-sub /exec/configure/if-remote-ethernet-sub

# encrypt pause-frame

[no] encrypt pause-frame

## Syntax Description

encrypt	Enable/disable encryption for specific type of frames
pause-frame	Ethernet PAUSE frames

## Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

# encryption decrypt type6

encryption decrypt type6

## Syntax Description

encryption	Strong encryption for credential(s)
decrypt	Decrypts strongly encrypted secret(s) to obfuscated type(s)
type6	type6 secrets present in system

## Command Mode

- /exec



# encryption delete type6

encryption delete type6 [ <uuid> | <name> ]

## Syntax Description

encryption	Strong encryption for credential(s)
delete	Deletes strongly encrypted secret(s)
type6	type6 secrets present in system
<i>uuid</i>	(Optional) uuid of the app
<i>name</i>	(Optional) Service name

## Command Mode

- /exec

# encryption re-encrypt obfuscated

encryption re-encrypt obfuscated

## Syntax Description

encryption	Strong encryption for credential(s)
re-encrypt	Re-encrypts weakly encrypted secret(s) to strongly encrypted secret(s)
obfuscated	type-3/type-7/clear-text secrets present in system

## Command Mode

- /exec

# end-job

end-job

## Syntax Description

end-job	End scheduler job
---------	-------------------

## Command Mode

- /exec

# end

end

## Syntax Description

end	Go to exec mode
-----	-----------------

## Command Mode

- /global

# enforce-first-as

[no] enforce-first-as

## Syntax Description

no	(Optional) Negate a command or set its defaults
enforce-first-as	Enforce neighbor AS is the first AS in AS-PATH attribute (EBGP)

## Command Mode

- /exec/configure/router-bgp

# enrollment terminal

[no] enrollment terminal

## Syntax Description

no	(Optional) Negate a command or set its defaults
enrollment	Configure trustpoint enrollment
terminal	Configure trustpoint enrollment via console

## Command Mode

- /exec/configure/trustpoint

# errdisable detect cause acl-exception

[no] errdisable detect cause acl-exception

## Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

## Command Mode

- /exec/configure

# errdisable port detect cause acl-exception

[no] errdisable port detect cause acl-exception

## Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

## Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch



# errdisable recovery interval

errdisable recovery interval <val> | no errdisable recovery interval [ <val> ]

## Syntax Description

no	Negate a command or set its defaults
errdisable	Error disable
recovery	Error disable recovery
interval	Error disable recovery timer value
<i>val</i>	timer-interval (sec)

## Command Mode

- /exec/configure

# ethalyzer local

[no] ethalyzer local [ { { {

## Syntax Description

{	(Optional) inband
no	(Optional) Negate a command or set its defaults
ethalyzer	Configure cisco packet analyzer
local	start local capture of frames to Sup

## Command Mode

- /exec

# ethernet-tag encapsulation dot1q

```
{ ethernet-tag encapsulation dot1q <vlan-id> { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation dot1q <vlan-id> }
```

## Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	

## Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

## ethernet-tag encapsulation dot1q default

```
{ ethernet-tag encapsulation dot1q default { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation dot1q default }
```

### Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
default	Default (wildcard). Match any dot1q when there is no specific dot1q mapping configured

### Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# ethernet-tag encapsulation vni

```
{ ethernet-tag encapsulation vni <vni-id> { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation vni <vni-id> }
```

## Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
vni	Virtual Network Identifier
<i>vni-id</i>	

## Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

## ethernet-tag encapsulation vni default

```
{ ethernet-tag encapsulation vni default { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation vni default }
```

### Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
vni	Virtual Network Identifier
default	Default (wildcard). Match any vni when there is no specific vni mapping configured

### Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# evb batch-response disable

{ [ no ] evb batch-response disable }

## Syntax Description

no	(Optional) Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
batch-response	Disable batch-response
disable	Disable batch-response

## Command Mode

- /exec/configure

# evb mac

```
{ evb mac <mac-addr> } | { no evb mac [ <mac-addr> ] }
```

## Syntax Description

no	Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
mac	VDP multicast MAC address
<i>mac-addr</i>	MAC Address

## Command Mode

- /exec/configure



# evb reinit-keep-alive

```
{ evb reinit-keep-alive <exp> } | { no evb reinit-keep-alive [ <exp> ] }
```

## Syntax Description

no	Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
reinit-keep-alive	Keepalive
<i>exp</i>	Timer exponent. (Min 22 exp ~ 40 seconds)

## Command Mode

- /exec/configure

## evb resource-wait-delay

{ evb resource-wait-delay <exp> } | { no evb resource-wait-delay [ <exp> ] }

### Syntax Description

no	Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
resource-wait-delay	Resource wait delay
<i>exp</i>	Timer exponent. (Min 22 exp ~ 40 seconds)

### Command Mode

- /exec/configure

# event-history

[no] event-history { cli | events | periodic } [ size { <size\_in\_text> | <bytes> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
cli	CLI event history buffer
events	Events history buffer
periodic	Periodic events history buffer
size	(Optional) Set the buffer size
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

## Command Mode

- /exec/configure/router-bgp

## event-history

```
event-history { keystore | sksd } { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
} | no category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

### Syntax Description

event-history	switch wide event history configuration
keystore	Configure keystore event logs
sksd	Configure keystore/sksd event logs
category	Configure keystore event logs for category
all	Configure keystore event logs for category all events
mts	Configure keystore event logs for category mts
rx	(Optional) Configure keystore event logs for mts Rx frames
brief	(Optional) Configure brief keystore event logs for mts Rx
detail	(Optional) Configure detail keystore event logs for mts Rx
tx	(Optional) Configure keystore event logs for mts Tx frames
brief1	(Optional) Configure brief keystore event logs for mts Tx
detail1	(Optional) Configure detail keystore event logs for mts Tx
no	Disable keystore event logs for category
category	Configure keystore event logs for category
all	Configure keystore event logs for category all events
mts	Configure keystore event logs for category mts
rx	(Optional) Configure keystore event logs for mts Rx frames
brief1	(Optional) Configure brief keystore event logs for mts Rx
detail1	(Optional) Configure detail keystore event logs for mts Rx
tx	(Optional) Configure keystore event logs for mts Tx frames
brief2	(Optional) Configure brief keystore event logs for mts Tx
detail2	(Optional) Configure detail keystore event logs for mts Tx

### Command Mode

- /exec

# event-history adbm category all

event-history adbm category all

## Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
all	Configure adbm event logs for category all events

## Command Mode

- /exec

## event-history adbm category fc2

```
event-history adbm category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
fc2	Configure adbm event logs for category FC2
rx	(Optional) Configure adbm event logs for FC2 Rx frames
brief	(Optional) Configure brief adbm event logs for FC2 Rx
detail	(Optional) Configure detail adbm event logs for FC2 Rx
tx	(Optional) Configure adbm event logs for FC2 Tx frames
brief1	(Optional) Configure brief adbm event logs for FC2 Tx
detail1	(Optional) Configure detail adbm event logs for FC2 Tx

### Command Mode

- /exec

## event-history adbm category mts

```
event-history adbm category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
mts	Configure adbm event logs for category mts
rx	(Optional) Configure adbm event logs for mts Rx frames
brief	(Optional) Configure brief adbm event logs for mts Rx
detail	(Optional) Configure detail adbm event logs for mts Rx
tx	(Optional) Configure adbm event logs for mts Tx frames
brief1	(Optional) Configure brief adbm event logs for mts Tx
detail1	(Optional) Configure detail adbm event logs for mts Tx

### Command Mode

- /exec

# event-history adbm no category all

event-history adbm no category all

## Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
all	Configure adbm event logs for category all events

## Command Mode

- /exec



## event-history adbm no category fc2

```
event-history adbm no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
fc2	Configure adbm event logs for category FC2
rx	(Optional) Configure adbm event logs for FC2 Rx frames
brief	(Optional) Configure brief adbm event logs for FC2 Rx
detail	(Optional) Configure detail adbm event logs for FC2 Rx
tx	(Optional) Configure adbm event logs for FC2 Tx frames
brief1	(Optional) Configure brief adbm event logs for FC2 Tx
detail1	(Optional) Configure detail adbm event logs for FC2 Tx

### Command Mode

- /exec

## event-history adbm no category mts

```
event-history adbm no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
mts	Configure adbm event logs for category mts
rx	(Optional) Configure adbm event logs for mts Rx frames
brief	(Optional) Configure brief adbm event logs for mts Rx
detail	(Optional) Configure detail adbm event logs for mts Rx
tx	(Optional) Configure adbm event logs for mts Tx frames
brief1	(Optional) Configure brief adbm event logs for mts Tx
detail1	(Optional) Configure detail adbm event logs for mts Tx

### Command Mode

- /exec

# event-history callhome

```
event-history callhome { mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

## Syntax Description

event-history	switch wide event history configuration
callhome	Configure Callhome event logs
mts	Configure callhome event logs for MTS
rx	(Optional) Configure callhome event logs for MTS Rx frames
brief	(Optional) Configure brief callhome event logs for MTS Rx
detail	(Optional) Configure detail callhome event logs for MTS Rx
tx	(Optional) Configure callhome event logs for MTS Tx frames
brief1	(Optional) Configure brief callhome event logs for MTS Tx
detail1	(Optional) Configure detail callhome event logs for MTS Tx
no	Disable callhome event logs for MTS
mts	Configure callhome event logs for MTS
rx	(Optional) Configure callhome event logs for MTS Rx frames
brief1	(Optional) Configure brief callhome event logs for MTS Rx
detail1	(Optional) Configure detail callhome event logs for MTS Rx
tx	(Optional) Configure callhome event logs for MTS Tx frames
brief2	(Optional) Configure brief callhome event logs for MTS Tx
detail2	(Optional) Configure detail callhome event logs for MTS Tx

## Command Mode

- /exec

## event-history capability

```
event-history capability { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] ] } } | no
category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] ] } }
```

### Syntax Description

event-history	switch wide event history configuration
capability	Configure capability event logs
category	Configure capability event logs for category
all	Configure capability event logs for category all events
mts	Configure capability event logs for category mts
rx	(Optional) Configure capability event logs for mts Rx frames
brief	(Optional) Configure brief capability event logs for mts Rx
detail	(Optional) Configure detail capability event logs for mts Rx
tx	(Optional) Configure capability event logs for mts Tx frames
brief1	(Optional) Configure brief capability event logs for mts Tx
detail1	(Optional) Configure detail capability event logs for mts Tx
no	Disable capability event logs for category
category	Configure capability event logs for category
all	Configure capability event logs for category all events
mts	Configure capability event logs for category mts
rx	(Optional) Configure capability event logs for mts Rx frames
brief1	(Optional) Configure brief capability event logs for mts Rx
detail1	(Optional) Configure detail capability event logs for mts Rx
tx	(Optional) Configure capability event logs for mts Tx frames
brief2	(Optional) Configure brief capability event logs for mts Tx
detail2	(Optional) Configure detail capability event logs for mts Tx

### Command Mode

- /exec

# event-history copp category all

event-history copp category all

## Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
all	Configure copp event logs for category all events

## Command Mode

- /exec

## event-history copp category fc2

```
event-history copp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
fc2	Configure copp event logs for category FC2
rx	(Optional) Configure copp event logs for FC2 Rx frames
brief	(Optional) Configure brief copp event logs for FC2 Rx
detail	(Optional) Configure detail copp event logs for FC2 Rx
tx	(Optional) Configure copp event logs for FC2 Tx frames
brief1	(Optional) Configure brief copp event logs for FC2 Tx
detail1	(Optional) Configure detail copp event logs for FC2 Tx

### Command Mode

- /exec

## event-history copp category mts

```
event-history copp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
mts	Configure copp event logs for category mts
rx	(Optional) Configure copp event logs for mts Rx frames
brief	(Optional) Configure brief copp event logs for mts Rx
detail	(Optional) Configure detail copp event logs for mts Rx
tx	(Optional) Configure copp event logs for mts Tx frames
brief1	(Optional) Configure brief copp event logs for mts Tx
detail1	(Optional) Configure detail copp event logs for mts Tx

### Command Mode

- /exec

# event-history copp no category all

event-history copp no category all

## Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
all	Configure copp event logs for category all events

## Command Mode

- /exec



## event-history copp no category fc2

```
event-history copp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
fc2	Configure copp event logs for category FC2
rx	(Optional) Configure copp event logs for FC2 Rx frames
brief	(Optional) Configure brief copp event logs for FC2 Rx
detail	(Optional) Configure detail copp event logs for FC2 Rx
tx	(Optional) Configure copp event logs for FC2 Tx frames
brief1	(Optional) Configure brief copp event logs for FC2 Tx
detail1	(Optional) Configure detail copp event logs for FC2 Tx

### Command Mode

- /exec

## event-history copp no category mts

```
event-history copp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
mts	Configure copp event logs for category mts
rx	(Optional) Configure copp event logs for mts Rx frames
brief	(Optional) Configure brief copp event logs for mts Rx
detail	(Optional) Configure detail copp event logs for mts Rx
tx	(Optional) Configure copp event logs for mts Tx frames
brief1	(Optional) Configure brief copp event logs for mts Tx
detail1	(Optional) Configure detail copp event logs for mts Tx

### Command Mode

- /exec

# event-history detail

[no] event-history detail [ size { <size\_in\_text> | <bytes> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
detail	Detailed event history buffer
size	(Optional) Set the buffer size
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

## Command Mode

- /exec/configure/router-bgp

## event-history dot1x

```
event-history dot1x { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
dot1x	Configure dot1x event logs
category	Configure dot1x event logs for category
all	Configure dot1x event logs for category all events
mts	Configure dot1x event logs for category mts
rx	(Optional) Configure dot1x event logs for mts Rx frames
brief	(Optional) Configure brief dot1x event logs for mts Rx
detail	(Optional) Configure detail dot1x event logs for mts Rx
tx	(Optional) Configure dot1x event logs for mts Tx frames
brief1	(Optional) Configure brief dot1x event logs for mts Tx
detail1	(Optional) Configure detail dot1x event logs for mts Tx
no	Disable dot1x event logs for category
category	Configure dot1x event logs for category
all	Configure dot1x event logs for category all events
mts	Configure dot1x event logs for category mts
rx	(Optional) Configure dot1x event logs for mts Rx frames
brief1	(Optional) Configure brief dot1x event logs for mts Rx
detail1	(Optional) Configure detail dot1x event logs for mts Rx
tx	(Optional) Configure dot1x event logs for mts Tx frames
brief2	(Optional) Configure brief dot1x event logs for mts Tx
detail2	(Optional) Configure detail dot1x event logs for mts Tx

### Command Mode

- /exec

# event-history eltm category all

event-history eltm category all

## Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
all	Configure eltm event logs for category all events

## Command Mode

- /exec

## event-history eltm category fc2

```
event-history eltm category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
fc2	Configure eltm event logs for category FC2
rx	(Optional) Configure eltm event logs for FC2 Rx frames
brief	(Optional) Configure brief eltm event logs for FC2 Rx
detail	(Optional) Configure detail eltm event logs for FC2 Rx
tx	(Optional) Configure eltm event logs for FC2 Tx frames
brief1	(Optional) Configure brief eltm event logs for FC2 Tx
detail1	(Optional) Configure detail eltm event logs for FC2 Tx

### Command Mode

- /exec

## event-history eltm category mts

```
event-history eltm category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
mts	Configure eltm event logs for category mts
rx	(Optional) Configure eltm event logs for mts Rx frames
brief	(Optional) Configure brief eltm event logs for mts Rx
detail	(Optional) Configure detail eltm event logs for mts Rx
tx	(Optional) Configure eltm event logs for mts Tx frames
brief1	(Optional) Configure brief eltm event logs for mts Tx
detail1	(Optional) Configure detail eltm event logs for mts Tx

### Command Mode

- /exec

## event-history eltm no category all

event-history eltm no category all

### Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
all	Configure eltm event logs for category all events

### Command Mode

- /exec



## event-history eltm no category fc2

```
event-history eltm no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
fc2	Configure eltm event logs for category FC2
rx	(Optional) Configure eltm event logs for FC2 Rx frames
brief	(Optional) Configure brief eltm event logs for FC2 Rx
detail	(Optional) Configure detail eltm event logs for FC2 Rx
tx	(Optional) Configure eltm event logs for FC2 Tx frames
brief1	(Optional) Configure brief eltm event logs for FC2 Tx
detail1	(Optional) Configure detail eltm event logs for FC2 Tx

### Command Mode

- /exec

## event-history eltm no category mts

```
event-history eltm no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
mts	Configure eltm event logs for category mts
rx	(Optional) Configure eltm event logs for mts Rx frames
brief	(Optional) Configure brief eltm event logs for mts Rx
detail	(Optional) Configure detail eltm event logs for mts Rx
tx	(Optional) Configure eltm event logs for mts Tx frames
brief1	(Optional) Configure brief eltm event logs for mts Tx
detail1	(Optional) Configure detail eltm event logs for mts Tx

### Command Mode

- /exec

## event-history ethpm

```
event-history ethpm { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
ethpm	Configure ethpm event logs
category	Configure ethpm event logs for category
all	Configure ethpm event logs for category all events
mts	Configure ethpm event logs for category mts
rx	(Optional) Configure ethpm event logs for mts Rx frames
brief	(Optional) Configure brief ethpm event logs for mts Rx
detail	(Optional) Configure detail ethpm event logs for mts Rx
tx	(Optional) Configure ethpm event logs for mts Tx frames
brief1	(Optional) Configure brief ethpm event logs for mts Tx
detail1	(Optional) Configure detail ethpm event logs for mts Tx
no	Disable ethpm event logs for category
category	Configure ethpm event logs for category
all	Configure ethpm event logs for category all events
mts	Configure ethpm event logs for category mts
rx	(Optional) Configure ethpm event logs for mts Rx frames
brief1	(Optional) Configure brief ethpm event logs for mts Rx
detail1	(Optional) Configure detail ethpm event logs for mts Rx
tx	(Optional) Configure ethpm event logs for mts Tx frames
brief2	(Optional) Configure brief ethpm event logs for mts Tx
detail2	(Optional) Configure detail ethpm event logs for mts Tx

### Command Mode

- /exec

# event-history exceptionlog

```
event-history exceptionlog { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no
category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

## Syntax Description

event-history	switch wide event history configuration
exceptionlog	Configure expl manager event logs
category	Configure exceptionlog manager event logs for category
all	Configure explog eventlogs for category all events
mts	Configure exceptionlog manager event logs for category mts
rx	(Optional) Configure exceptionlog manager event logs for mts Rx frames
brief	(Optional) Configure brief exceptionlog manager event logs for mts Rx
detail	(Optional) Configure detail exceptionlog manager event logs for mts Rx
tx	(Optional) Configure exceptionlog manager event logs for mts Tx frames
brief1	(Optional) Configure brief exceptionlog manager event logs for mts Tx
detail1	(Optional) Configure detail exceptionlog manager event logs for mts Tx
no	Disable exceptionlog manager event logs for category
category	Configure exceptionlog manager event logs for category
all	Configure explog eventlogs for category all events
mts	Configure exceptionlog manager event logs for category mts
rx	(Optional) Configure exceptionlog manager event logs for mts Rx frames
brief1	(Optional) Configure brief exceptionlog manager event logs for mts Rx
detail1	(Optional) Configure detail exceptionlog manager event logs for mts Rx
tx	(Optional) Configure exceptionlog manager event logs for mts Tx frames
brief2	(Optional) Configure brief exceptionlog manager event logs for mts Tx
detail2	(Optional) Configure detail exceptionlog manager event logs for mts Tx

## Command Mode

- /exec

## event-history im no category mts

```
event-history im no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
im	Configure im event logs
no	Disable im event logs for category
category	Configure im event logs for category
mts	Configure im event logs for category mts
rx	(Optional) Configure im event logs for mts Rx frames
brief	(Optional) Configure brief im event logs for mts Rx
detail	(Optional) Configure detail im event logs for mts Rx
tx	(Optional) Configure im event logs for mts Tx frames
brief1	(Optional) Configure brief im event logs for mts Tx
detail1	(Optional) Configure detail im event logs for mts Tx

### Command Mode

- /exec

## event-history interface vlan

event-history interface vlan [ no ] category all

### Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
all	Configure interface vlan event logs for category all events

### Command Mode

- /exec

## event-history interface vlan

```
event-history interface vlan [ no ] category mts [ rx [ { brief | detail } ] ]
```

### Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
mts	Configure interface vlan event logs for category mts
rx	(Optional) Configure interface vlan event logs for mts Rx frames
brief	(Optional) Configure brief interface vlan event logs for mts Rx
detail	(Optional) Configure detail interface vlan event logs for mts Rx

### Command Mode

- /exec



## event-history interface vlan

```
event-history interface vlan [ no ] category mts [ tx [ { brief | detail } ] ]
```

### Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
mts	Configure interface vlan event logs for category mts
tx	(Optional) Configure interface vlan event logs for mts Tx frames
brief	(Optional) Configure brief interface vlan event logs for mts Tx
detail	(Optional) Configure detail interface vlan event logs for mts Tx

### Command Mode

- /exec

# event-history lacp category all

event-history lacp category all

## Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
all	Configure lacp event logs for category all events

## Command Mode

- /exec

## event-history lacp category fc2

```
event-history lacp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
fc2	Configure lacp event logs for category FC2
rx	(Optional) Configure lacp event logs for FC2 Rx frames
brief	(Optional) Configure brief lacp event logs for FC2 Rx
detail	(Optional) Configure detail lacp event logs for FC2 Rx
tx	(Optional) Configure lacp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lacp event logs for FC2 Tx
detail1	(Optional) Configure detail lacp event logs for FC2 Tx

### Command Mode

- /exec

## event-history lacp category mts

```
event-history lacp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
mts	Configure lacp event logs for category mts
rx	(Optional) Configure lacp event logs for mts Rx frames
brief	(Optional) Configure brief lacp event logs for mts Rx
detail	(Optional) Configure detail lacp event logs for mts Rx
tx	(Optional) Configure lacp event logs for mts Tx frames
brief1	(Optional) Configure brief lacp event logs for mts Tx
detail1	(Optional) Configure detail lacp event logs for mts Tx

### Command Mode

- /exec

# event-history lacp no category all

event-history lacp no category all

## Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
all	Configure lacp event logs for category all events

## Command Mode

- /exec

## event-history lacp no category fc2

```
event-history lacp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
fc2	Configure lacp event logs for category FC2
rx	(Optional) Configure lacp event logs for FC2 Rx frames
brief	(Optional) Configure brief lacp event logs for FC2 Rx
detail	(Optional) Configure detail lacp event logs for FC2 Rx
tx	(Optional) Configure lacp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lacp event logs for FC2 Tx
detail1	(Optional) Configure detail lacp event logs for FC2 Tx

### Command Mode

- /exec

## event-history lacp no category mts

event-history lacp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]

### Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
mts	Configure lacp event logs for category mts
rx	(Optional) Configure lacp event logs for mts Rx frames
brief	(Optional) Configure brief lacp event logs for mts Rx
detail	(Optional) Configure detail lacp event logs for mts Rx
tx	(Optional) Configure lacp event logs for mts Tx frames
brief1	(Optional) Configure brief lacp event logs for mts Tx
detail1	(Optional) Configure detail lacp event logs for mts Tx

### Command Mode

- /exec

## event-history license

```
event-history license { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
license	Configure license manager event logs
category	Configure license manager event logs for category
all	Configure license manager event logs for category all events
mts	Configure license manager event logs for category mts
rx	(Optional) Configure license manager event logs for mts Rx frames
brief	(Optional) Configure brief license manager event logs for mts Rx
detail	(Optional) Configure detail license manager event logs for mts Rx
tx	(Optional) Configure license manager event logs for mts Tx frames
brief1	(Optional) Configure brief license manager event logs for mts Tx
detail1	(Optional) Configure detail license manager event logs for mts Tx
no	Disable license manager event logs for category
category	Configure license manager event logs for category
all	Configure license manager event logs for category all events
mts	Configure license manager event logs for category mts
rx	(Optional) Configure license manager event logs for mts Rx frames
brief1	(Optional) Configure brief license manager event logs for mts Rx
detail1	(Optional) Configure detail license manager event logs for mts Rx
tx	(Optional) Configure license manager event logs for mts Tx frames
brief2	(Optional) Configure brief license manager event logs for mts Tx
detail2	(Optional) Configure detail license manager event logs for mts Tx

### Command Mode

- /exec



# event-history lldp category all

event-history lldp category all

## Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
all	Configure lldp event logs for category all events

## Command Mode

- /exec

## event-history lldp category fc2

```
event-history lldp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
fc2	Configure lldp event logs for category FC2
rx	(Optional) Configure lldp event logs for FC2 Rx frames
brief	(Optional) Configure brief lldp event logs for FC2 Rx
detail	(Optional) Configure detail lldp event logs for FC2 Rx
tx	(Optional) Configure lldp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lldp event logs for FC2 Tx
detail1	(Optional) Configure detail lldp event logs for FC2 Tx

### Command Mode

- /exec

## event-history lldp category mts

```
event-history lldp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
mts	Configure lldp event logs for category mts
rx	(Optional) Configure lldp event logs for mts Rx frames
brief	(Optional) Configure brief lldp event logs for mts Rx
detail	(Optional) Configure detail lldp event logs for mts Rx
tx	(Optional) Configure lldp event logs for mts Tx frames
brief1	(Optional) Configure brief lldp event logs for mts Tx
detail1	(Optional) Configure detail lldp event logs for mts Tx

### Command Mode

- /exec

## event-history lldp no category all

event-history lldp no category all

### Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
all	Configure lldp event logs for category all events

### Command Mode

- /exec

## event-history lldp no category fc2

```
event-history lldp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
fc2	Configure lldp event logs for category FC2
rx	(Optional) Configure lldp event logs for FC2 Rx frames
brief	(Optional) Configure brief lldp event logs for FC2 Rx
detail	(Optional) Configure detail lldp event logs for FC2 Rx
tx	(Optional) Configure lldp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lldp event logs for FC2 Tx
detail1	(Optional) Configure detail lldp event logs for FC2 Tx

### Command Mode

- /exec

## event-history lldp no category mts

```
event-history lldp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
mts	Configure lldp event logs for category mts
rx	(Optional) Configure lldp event logs for mts Rx frames
brief	(Optional) Configure brief lldp event logs for mts Rx
detail	(Optional) Configure detail lldp event logs for mts Rx
tx	(Optional) Configure lldp event logs for mts Tx frames
brief1	(Optional) Configure brief lldp event logs for mts Tx
detail1	(Optional) Configure detail lldp event logs for mts Tx

### Command Mode

- /exec

## event-history mmode

```
event-history mmode [ no ] category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] }
```

### Syntax Description

event-history	switch wide event history configuration
mmode	Configure mmode event logs
no	(Optional) Disable mmode event logs for category
category	Configure mmode event logs for category
all	Configure mmode event logs for category all events
mts	Configure mmode event logs for category mts
rx	(Optional) Configure mmode event logs for mts Rx frames
brief	(Optional) Configure brief mmode event logs for mts Rx
detail	(Optional) Configure detail mmode event logs for mts Rx
tx	(Optional) Configure mmode event logs for mts Tx frames
brief1	(Optional) Configure brief mmode event logs for mts Tx
detail1	(Optional) Configure detail mmode event logs for mts Tx

### Command Mode

- /exec

## event-history module

```
event-history module { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
module	Configure module event logs
category	Configure module event logs for category
all	Configure module event logs for category all events
mts	Configure module event logs for category mts
rx	(Optional) Configure module event logs for mts Rx frames
brief	(Optional) Configure brief module event logs for mts Rx
detail	(Optional) Configure detail module event logs for mts Rx
tx	(Optional) Configure module event logs for mts Tx frames
brief1	(Optional) Configure brief module event logs for mts Tx
detail1	(Optional) Configure detail module event logs for mts Tx
no	Disable module event logs for category
category	Configure module event logs for category
all	Configure module event logs for category all events
mts	Configure module event logs for category mts
rx	(Optional) Configure module event logs for mts Rx frames
brief1	(Optional) Configure brief module event logs for mts Rx
detail1	(Optional) Configure detail module event logs for mts Rx
tx	(Optional) Configure module event logs for mts Tx frames
brief2	(Optional) Configure brief module event logs for mts Tx
detail2	(Optional) Configure detail module event logs for mts Tx

### Command Mode

- /exec



# event-history pfstat category all

event-history pfstat category all

## Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
all	Configure pfstat event logs for category all events

## Command Mode

- /exec

## event-history pfstat category fc2

```
event-history pfstat category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
fc2	Configure pfstat event logs for category FC2
rx	(Optional) Configure pfstat event logs for FC2 Rx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Rx
detail	(Optional) Configure detail pfstat event logs for FC2 Rx
tx	(Optional) Configure pfstat event logs for FC2 Tx frames
brief1	(Optional) Configure brief pfstat event logs for FC2 Tx
detail1	(Optional) Configure detail pfstat event logs for FC2 Tx

### Command Mode

- /exec

## event-history pfstat category mts

```
event-history pfstat category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
mts	Configure pfstat event logs for category mts
rx	(Optional) Configure pfstat event logs for mts Rx frames
brief	(Optional) Configure brief pfstat event logs for mts Rx
detail	(Optional) Configure detail pfstat event logs for mts Rx
tx	(Optional) Configure pfstat event logs for mts Tx frames
brief1	(Optional) Configure brief pfstat event logs for mts Tx
detail1	(Optional) Configure detail pfstat event logs for mts Tx

### Command Mode

- /exec

## event-history pfstat no category all

event-history pfstat no category all

### Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
all	Configure pfstat event logs for category all events

### Command Mode

- /exec

## event-history pfstat no category fc2

```
event-history pfstat no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
fc2	Configure pfstat event logs for category FC2
rx	(Optional) Configure pfstat event logs for FC2 Rx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Rx
detail	(Optional) Configure detail pfstat event logs for FC2 Rx
tx	(Optional) Configure pfstat event logs for FC2 Tx frames
brief1	(Optional) Configure brief pfstat event logs for FC2 Tx
detail1	(Optional) Configure detail pfstat event logs for FC2 Tx

### Command Mode

- /exec

## event-history pfstat no category mts

```
event-history pfstat no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
mts	Configure pfstat event logs for category mts
rx	(Optional) Configure pfstat event logs for mts Rx frames
brief	(Optional) Configure brief pfstat event logs for mts Rx
detail	(Optional) Configure detail pfstat event logs for mts Rx
tx	(Optional) Configure pfstat event logs for mts Tx frames
brief1	(Optional) Configure brief pfstat event logs for mts Tx
detail1	(Optional) Configure detail pfstat event logs for mts Tx

### Command Mode

- /exec

# event-history platform buffer-size

event-history platform buffer-size <i0>

## Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
buffer-size	Configure platform event logs buffer size
<i>i0</i>	please enter buffer size

## Command Mode

- /exec

## event-history platform category

```
event-history platform category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] }
```

### Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
category	Configure platform event logs for category
all	Configure platform event logs for category all events
mts	Configure platform event logs for category mts
rx	(Optional) Configure platform event logs for mts Rx frames
brief	(Optional) Configure brief platform event logs for mts Rx
detail	(Optional) Configure detail platform event logs for mts Rx
tx	(Optional) Configure platform event logs for mts Tx frames
brief1	(Optional) Configure brief platform event logs for mts Tx
detail1	(Optional) Configure detail platform event logs for mts Tx

### Command Mode

- /exec



## event-history platform no category

```
event-history platform no category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] }
```

### Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
no	Disable platform event logs for category
category	Configure platform event logs for category
all	Configure platform event logs for category all events
mts	Configure platform event logs for category mts
rx	(Optional) Configure platform event logs for mts Rx frames
brief	(Optional) Configure brief platform event logs for mts Rx
detail	(Optional) Configure detail platform event logs for mts Rx
tx	(Optional) Configure platform event logs for mts Tx frames
brief1	(Optional) Configure brief platform event logs for mts Tx
detail1	(Optional) Configure detail platform event logs for mts Tx

### Command Mode

- /exec

## event-history pltfm\_config category all

event-history pltfm\_config category all

### Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
all	Configure pltfm_config event logs for category all events

### Command Mode

- /exec

## event-history pltfm\_config category fc2

```
event-history pltfm_config category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
fc2	Configure pltfm_config event logs for category FC2
rx	(Optional) Configure pltfm_config event logs for FC2 Rx frames
brief	(Optional) Configure brief pltfm_config event logs for FC2 Rx
detail	(Optional) Configure detail pltfm_config event logs for FC2 Rx
tx	(Optional) Configure pltfm_config event logs for FC2 Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for FC2 Tx
detail1	(Optional) Configure detail pltfm_config event logs for FC2 Tx

### Command Mode

- /exec

## event-history pltfm\_config category mts

```
event-history pltfm_config category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
mts	Configure pltfm_config event logs for category mts
rx	(Optional) Configure pltfm_config event logs for mts Rx frames
brief	(Optional) Configure brief pltfm_config event logs for mts Rx
detail	(Optional) Configure detail pltfm_config event logs for mts Rx
tx	(Optional) Configure pltfm_config event logs for mts Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for mts Tx
detail1	(Optional) Configure detail pltfm_config event logs for mts Tx

### Command Mode

- /exec

# event-history pltfm\_config no category all

event-history pltfm\_config no category all

## Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
all	Configure pltfm_config event logs for category all events

## Command Mode

- /exec

## event-history pltfm\_config no category fc2

```
event-history pltfm_config no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
fc2	Configure pltfm_config event logs for category FC2
rx	(Optional) Configure pltfm_config event logs for FC2 Rx frames
brief	(Optional) Configure brief pltfm_config event logs for FC2 Rx
detail	(Optional) Configure detail pltfm_config event logs for FC2 Rx
tx	(Optional) Configure pltfm_config event logs for FC2 Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for FC2 Tx
detail1	(Optional) Configure detail pltfm_config event logs for FC2 Tx

### Command Mode

- /exec

## event-history pltfm\_config no category mts

```
event-history pltfm_config no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
mts	Configure pltfm_config event logs for category mts
rx	(Optional) Configure pltfm_config event logs for mts Rx frames
brief	(Optional) Configure brief pltfm_config event logs for mts Rx
detail	(Optional) Configure detail pltfm_config event logs for mts Rx
tx	(Optional) Configure pltfm_config event logs for mts Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for mts Tx
detail1	(Optional) Configure detail pltfm_config event logs for mts Tx

### Command Mode

- /exec

## event-history plugin

```
event-history plugin { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
plugin	Configure plugin event logs
category	Configure plugin event logs for category
all	Configure plugin event logs for category all events
mts	Configure plugin event logs for category mts
rx	(Optional) Configure plugin event logs for mts Rx frames
brief	(Optional) Configure brief plugin event logs for mts Rx
detail	(Optional) Configure detail plugin event logs for mts Rx
tx	(Optional) Configure plugin event logs for mts Tx frames
brief1	(Optional) Configure brief plugin event logs for mts Tx
detail1	(Optional) Configure detail plugin event logs for mts Tx
no	Disable plugin event logs for category
category	Configure plugin event logs for category
all	Configure plugin event logs for category all events
mts	Configure plugin event logs for category mts
rx	(Optional) Configure plugin event logs for mts Rx frames
brief1	(Optional) Configure brief plugin event logs for mts Rx
detail1	(Optional) Configure detail plugin event logs for mts Rx
tx	(Optional) Configure plugin event logs for mts Tx frames
brief2	(Optional) Configure brief plugin event logs for mts Tx
detail2	(Optional) Configure detail plugin event logs for mts Tx

### Command Mode

- /exec



# event-history poap category all

event-history poap category all

## Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
all	Configure poap event logs for category all events

## Command Mode

- /exec

## event-history poap category fc2

```
event-history poap category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
fc2	Configure poap event logs for category FC2
rx	(Optional) Configure poap event logs for FC2 Rx frames
brief	(Optional) Configure brief poap event logs for FC2 Rx
detail	(Optional) Configure detail poap event logs for FC2 Rx
tx	(Optional) Configure poap event logs for FC2 Tx frames
brief1	(Optional) Configure brief poap event logs for FC2 Tx
detail1	(Optional) Configure detail poap event logs for FC2 Tx

### Command Mode

- /exec

## event-history poap category mts

```
event-history poap category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
mts	Configure poap event logs for category mts
rx	(Optional) Configure poap event logs for mts Rx frames
brief	(Optional) Configure brief poap event logs for mts Rx
detail	(Optional) Configure detail poap event logs for mts Rx
tx	(Optional) Configure poap event logs for mts Tx frames
brief1	(Optional) Configure brief poap event logs for mts Tx
detail1	(Optional) Configure detail poap event logs for mts Tx

### Command Mode

- /exec

# event-history poap no category all

event-history poap no category all

## Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
all	Configure poap event logs for category all events

## Command Mode

- /exec

## event-history poap no category fc2

```
event-history poap no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
fc2	Configure poap event logs for category FC2
rx	(Optional) Configure poap event logs for FC2 Rx frames
brief	(Optional) Configure brief poap event logs for FC2 Rx
detail	(Optional) Configure detail poap event logs for FC2 Rx
tx	(Optional) Configure poap event logs for FC2 Tx frames
brief1	(Optional) Configure brief poap event logs for FC2 Tx
detail1	(Optional) Configure detail poap event logs for FC2 Tx

### Command Mode

- /exec

## event-history poap no category mts

```
event-history poap no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
mts	Configure poap event logs for category mts
rx	(Optional) Configure poap event logs for mts Rx frames
brief	(Optional) Configure brief poap event logs for mts Rx
detail	(Optional) Configure detail poap event logs for mts Rx
tx	(Optional) Configure poap event logs for mts Tx frames
brief1	(Optional) Configure brief poap event logs for mts Tx
detail1	(Optional) Configure detail poap event logs for mts Tx

### Command Mode

- /exec

# event-history port-profile

event-history port-profile [ no ] category all

## Syntax Description

event-history	switch wide event history configuration
port-profile	Configure port-profile event logs
category	Configure port-profile event logs for category
no	(Optional) Disable port-profile event logs for category
all	Configure port-profile event logs for category all events

## Command Mode

- /exec

## event-history port-profile

```
event-history port-profile [ no ] category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port-profile	Configure port-profile event logs
no	(Optional) Disable port-profile event logs for category
category	Configure port-profile event logs for category
mts	Configure port-profile event logs for category mts
rx	(Optional) Configure port-profile event logs for mts Rx frames
brief	(Optional) Configure brief port-profile event logs for mts Rx
detail	(Optional) Configure detail port-profile event logs for mts Rx
tx	(Optional) Configure port-profile event logs for mts Tx frames
brief1	(Optional) Configure brief port-profile event logs for mts Tx
detail1	(Optional) Configure detail port-profile event logs for mts Tx

### Command Mode

- /exec



# event-history port-security category all

event-history port-security category all

## Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
all	Configure port-security event logs for category all events

## Command Mode

- /exec

## event-history port-security category fc2

```
event-history port-security category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
fc2	Configure port-security event logs for category FC2
rx	(Optional) Configure port-security event logs for FC2 Rx frames
brief	(Optional) Configure brief port-security event logs for FC2 Rx
detail	(Optional) Configure detail port-security event logs for FC2 Rx
tx	(Optional) Configure port-security event logs for FC2 Tx frames
brief1	(Optional) Configure brief port-security event logs for FC2 Tx
detail1	(Optional) Configure detail port-security event logs for FC2 Tx

### Command Mode

- /exec

## event-history port-security category mts

event-history port-security category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]

### Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
mts	Configure port-security event logs for category mts
rx	(Optional) Configure port-security event logs for mts Rx frames
brief	(Optional) Configure brief port-security event logs for mts Rx
detail	(Optional) Configure detail port-security event logs for mts Rx
tx	(Optional) Configure port-security event logs for mts Tx frames
brief1	(Optional) Configure brief port-security event logs for mts Tx
detail1	(Optional) Configure detail port-security event logs for mts Tx

### Command Mode

- /exec

# event-history port-security no category all

event-history port-security no category all

## Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
all	Configure port-security event logs for category all events

## Command Mode

- /exec

## event-history port-security no category fc2

```
event-history port-security no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
fc2	Configure port-security event logs for category FC2
rx	(Optional) Configure port-security event logs for FC2 Rx frames
brief	(Optional) Configure brief port-security event logs for FC2 Rx
detail	(Optional) Configure detail port-security event logs for FC2 Rx
tx	(Optional) Configure port-security event logs for FC2 Tx frames
brief1	(Optional) Configure brief port-security event logs for FC2 Tx
detail1	(Optional) Configure detail port-security event logs for FC2 Tx

### Command Mode

- /exec

## event-history port-security no category mts

```
event-history port-security no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
mts	Configure port-security event logs for category mts
rx	(Optional) Configure port-security event logs for mts Rx frames
brief	(Optional) Configure brief port-security event logs for mts Rx
detail	(Optional) Configure detail port-security event logs for mts Rx
tx	(Optional) Configure port-security event logs for mts Tx frames
brief1	(Optional) Configure brief port-security event logs for mts Tx
detail1	(Optional) Configure detail port-security event logs for mts Tx

### Command Mode

- /exec

# event-history port\_client category all

event-history port\_client category all

## Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
all	Configure port_client event logs for category all events

## Command Mode

- /exec

## event-history port\_client category fc2

```
event-history port_client category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
fc2	Configure port_client event logs for category FC2
rx	(Optional) Configure port_client event logs for FC2 Rx frames
brief	(Optional) Configure brief port_client event logs for FC2 Rx
detail	(Optional) Configure detail port_client event logs for FC2 Rx
tx	(Optional) Configure port_client event logs for FC2 Tx frames
brief1	(Optional) Configure brief port_client event logs for FC2 Tx
detail1	(Optional) Configure detail port_client event logs for FC2 Tx

### Command Mode

- /exec



## event-history port\_client category mts

```
event-history port_client category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
mts	Configure port_client event logs for category mts
rx	(Optional) Configure port_client event logs for mts Rx frames
brief	(Optional) Configure brief port_client event logs for mts Rx
detail	(Optional) Configure detail port_client event logs for mts Rx
tx	(Optional) Configure port_client event logs for mts Tx frames
brief1	(Optional) Configure brief port_client event logs for mts Tx
detail1	(Optional) Configure detail port_client event logs for mts Tx

### Command Mode

- /exec

# event-history port\_client no category all

event-history port\_client no category all

## Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
all	Configure port_client event logs for category all events

## Command Mode

- /exec

## event-history port\_client no category fc2

```
event-history port_client no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
fc2	Configure port_client event logs for category FC2
rx	(Optional) Configure port_client event logs for FC2 Rx frames
brief	(Optional) Configure brief port_client event logs for FC2 Rx
detail	(Optional) Configure detail port_client event logs for FC2 Rx
tx	(Optional) Configure port_client event logs for FC2 Tx frames
brief1	(Optional) Configure brief port_client event logs for FC2 Tx
detail1	(Optional) Configure detail port_client event logs for FC2 Tx

### Command Mode

- /exec

## event-history port\_client no category mts

```
event-history port_client no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
mts	Configure port_client event logs for category mts
rx	(Optional) Configure port_client event logs for mts Rx frames
brief	(Optional) Configure brief port_client event logs for mts Rx
detail	(Optional) Configure detail port_client event logs for mts Rx
tx	(Optional) Configure port_client event logs for mts Tx frames
brief1	(Optional) Configure brief port_client event logs for mts Tx
detail1	(Optional) Configure detail port_client event logs for mts Tx

### Command Mode

- /exec

## event-history private-vlan

event-history private-vlan [ no ] category all

### Syntax Description

event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
all	Configure private VLAN event logs for category all events

### Command Mode

- /exec

## event-history private-vlan

```
event-history private-vlan [ no ] category mts [ rx [ { brief | detail } ] ]
```

### Syntax Description

event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
mts	Configure private VLAN event logs for category mts
rx	(Optional) Configure private VLAN event logs for mts Rx frames
brief	(Optional) Configure brief private VLAN event logs for mts Rx
detail	(Optional) Configure detail private VLAN event logs for mts Rx

### Command Mode

- /exec

## event-history private-vlan

```
event-history private-vlan [ no ] category mts [ tx [ { brief | detail } ] ]
```

### Syntax Description

event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
mts	Configure private VLAN event logs for category mts
tx	(Optional) Configure private VLAN event logs for mts Tx frames
brief	(Optional) Configure brief private VLAN event logs for mts Tx
detail	(Optional) Configure detail private VLAN event logs for mts Tx

### Command Mode

- /exec

## event-history sensor

```
event-history sensor { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
sensor	Configure sensor USD event logs
category	Configure sensor USD event logs for category
all	Configure sensor USD event logs for category all events
mts	Configure sensor USD event logs for category mts
rx	(Optional) Configure sensor USD event logs for mts Rx frames
brief	(Optional) Configure brief sensor USD event logs for mts Rx
detail	(Optional) Configure detail sensor USD event logs for mts Rx
tx	(Optional) Configure sensor USD event logs for mts Tx frames
brief1	(Optional) Configure brief sensor USD event logs for mts Tx
detail1	(Optional) Configure detail sensor USD event logs for mts Tx
no	Disable sensor USD event logs for category
category	Configure sensor USD event logs for category
all	Configure sensor USD event logs for category all events
mts	Configure sensor USD event logs for category mts
rx	(Optional) Configure sensor USD event logs for mts Rx frames
brief1	(Optional) Configure brief sensor USD event logs for mts Rx
detail1	(Optional) Configure detail sensor USD event logs for mts Rx
tx	(Optional) Configure sensor USD event logs for mts Tx frames
brief2	(Optional) Configure brief sensor USD event logs for mts Tx
detail2	(Optional) Configure detail sensor USD event logs for mts Tx

### Command Mode

- /exec



# event-history session-mgr category all

event-history session-mgr category all

## Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
category	Configure session-mgr event logs for category
all	Configure session-mgr event logs for category all events

## Command Mode

- /exec

## event-history session-mgr category mts

```
event-history session-mgr category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
category	Configure session-mgr event logs for category
mts	Configure session-mgr event logs for category mts
rx	(Optional) Configure session-mgr event logs for mts Rx frames
brief	(Optional) Configure brief session-mgr event logs for mts Rx
detail	(Optional) Configure detail session-mgr event logs for mts Rx
tx	(Optional) Configure session-mgr event logs for mts Tx frames
brief1	(Optional) Configure brief session-mgr event logs for mts Tx
detail1	(Optional) Configure detail session-mgr event logs for mts Tx

### Command Mode

- /exec

# event-history session-mgr no category all

event-history session-mgr no category all

## Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
no	Disable session-mgr event logs for category
category	Configure session-mgr event logs for category
all	Configure session-mgr event logs for category all events

## Command Mode

- /exec

## event-history session-mgr no category mts

```
event-history session-mgr no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
no	Disable session-mgr event logs for category
category	Configure session-mgr event logs for category
mts	Configure session-mgr event logs for category mts
rx	(Optional) Configure session-mgr event logs for mts Rx frames
brief	(Optional) Configure brief session-mgr event logs for mts Rx
detail	(Optional) Configure detail session-mgr event logs for mts Rx
tx	(Optional) Configure session-mgr event logs for mts Tx frames
brief1	(Optional) Configure brief session-mgr event logs for mts Tx
detail1	(Optional) Configure detail session-mgr event logs for mts Tx

### Command Mode

- /exec

## event-history sflow

```
event-history sflow { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
sflow	Configure sFlow event logs
category	Configure sFlow event logs for category
all	Configure sFlow event logs for category all events
mts	Configure sFlow event logs for category mts
rx	(Optional) Configure sFlow event logs for mts Rx frames
brief	(Optional) Configure brief sFlow event logs for mts Rx
detail	(Optional) Configure detail sFlow event logs for mts Rx
tx	(Optional) Configure sFlow event logs for mts Tx frames
brief1	(Optional) Configure brief sFlow event logs for mts Tx
detail1	(Optional) Configure detail sFlow event logs for mts Tx
no	Disable sFlow event logs for category
category	Configure sFlow event logs for category
all	Configure sFlow event logs for category all events
mts	Configure sFlow event logs for category mts
rx	(Optional) Configure sFlow event logs for mts Rx frames
brief1	(Optional) Configure brief sFlow event logs for mts Rx
detail1	(Optional) Configure detail sFlow event logs for mts Rx
tx	(Optional) Configure sFlow event logs for mts Tx frames
brief2	(Optional) Configure brief sFlow event logs for mts Tx
detail2	(Optional) Configure detail sFlow event logs for mts Tx

### Command Mode

- /exec

## event-history snmp

```
event-history snmp { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

### Syntax Description

event-history	switch wide event history configuration
snmp	Configure SNMP event logs
category	Configure SNMP event logs for category
all	Configure SNMP event logs for category all events
mts	Configure snmp event logs for category MTS
rx	(Optional) Configure snmp event logs for MTS Rx frames
brief	(Optional) Configure brief SNMP event logs for MTS Rx
detail	(Optional) Configure detail SNMP event logs for MTS Rx
tx	(Optional) Configure SNMP event logs for MTS Tx frames
brief1	(Optional) Configure brief SNMP event logs for MTS Tx
detail1	(Optional) Configure detail snmp event logs for MTS Tx
no	Disable SNMP event logs for category
category	Configure SNMP event logs for category
all	Configure SNMP event logs for category all events
mts	Configure snmp event logs for category MTS
rx	(Optional) Configure snmp event logs for MTS Rx frames
brief1	(Optional) Configure brief SNMP event logs for MTS Rx
detail1	(Optional) Configure detail SNMP event logs for MTS Rx
tx	(Optional) Configure SNMP event logs for MTS Tx frames
brief2	(Optional) Configure brief SNMP event logs for MTS Tx
detail2	(Optional) Configure detail snmp event logs for MTS Tx

### Command Mode

- /exec

# event-history spanning-tree category all

event-history spanning-tree category all

## Syntax Description

event-history	switch wide event history configuration
spanning-tree	Configure stp event logs
category	Configure stp event logs for category
all	Configure stp event logs for category all events

## Command Mode

- /exec

# event-history stripcl category all

event-history stripcl category all

## Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
category	Configure stripcl event logs for category
all	Configure stripcl event logs for category all events

## Command Mode

- /exec



## event-history stripcl category mts

```
event-history stripcl category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
category	Configure stripcl event logs for category
mts	Configure stripcl event logs for category mts
rx	(Optional) Configure stripcl event logs for mts Rx frames
brief	(Optional) Configure brief stripcl event logs for mts Rx
detail	(Optional) Configure detail stripcl event logs for mts Rx
tx	(Optional) Configure stripcl event logs for mts Tx frames
brief	(Optional) Configure brief stripcl event logs for mts Tx
detail	(Optional) Configure detail stripcl event logs for mts Tx

### Command Mode

- /exec

# event-history stripcl no category all

event-history stripcl no category all

## Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
no	Disable stripcl event logs for category
category	Configure stripcl event logs for category
all	Configure stripcl event logs for category all events

## Command Mode

- /exec

# event-history uddl category all

event-history uddl category all

## Syntax Description

event-history	switch wide event history configuration
uddl	Configure uddl event logs
category	Configure uddl event logs for category
all	Configure uddl event logs for category all events

## Command Mode

- /exec

# event-history vdc category all

event-history vdc category all

## Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
category	Configure vdc_mgr event logs for category
all	Configure vdc_mgr event logs for category all events

## Command Mode

- /exec

# event-history vdc no category all

event-history vdc no category all

## Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
no	Disable vdc_mgr event logs for category
category	Configure vdc_mgr event logs for category
all	Configure vdc_mgr event logs for category all events

## Command Mode

- /exec

## event-history vdc no category mts

```
event-history vdc no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
no	Disable vdc_mgr event logs for category
category	Configure vdc_mgr event logs for category
mts	Configure vdc_mgr event logs for category mts
rx	(Optional) Configure vdc_mgr event logs for mts Rx frames
brief	(Optional) Configure brief vdc_mgr event logs for mts Rx
detail	(Optional) Configure detail vdc_mgr event logs for mts Rx
tx	(Optional) Configure vdc_mgr event logs for mts Tx frames
brief1	(Optional) Configure brief vdc_mgr event logs for mts Tx
detail1	(Optional) Configure detail vdc_mgr event logs for mts Tx

### Command Mode

- /exec

# event-history xbar category all

event-history xbar category all

## Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
category	Configure xbar event logs for category
all	Configure xbar event logs for category all events

## Command Mode

- /exec

## event-history xbar category mts

```
event-history xbar category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
category	Configure xbar event logs for category
mts	Configure xbar event logs for category mts
rx	(Optional) Configure xbar event logs for mts Rx frames
brief	(Optional) Configure brief xbar event logs for mts Rx
detail	(Optional) Configure detail xbar event logs for mts Rx
tx	(Optional) Configure xbar event logs for mts Tx frames
brief1	(Optional) Configure brief xbar event logs for mts Tx
detail1	(Optional) Configure detail xbar event logs for mts Tx

### Command Mode

- /exec



# event-history xbar no category all

event-history xbar no category all

## Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
all	Configure xbar event logs for category all events

## Command Mode

- /exec

## event-history xbar no category mts

```
event-history xbar no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

### Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
mts	Configure xbar event logs for category mts
rx	(Optional) Configure xbar event logs for mts Rx frames
brief	(Optional) Configure brief xbar event logs for mts Rx
detail	(Optional) Configure detail xbar event logs for mts Rx
tx	(Optional) Configure xbar event logs for mts Tx frames
brief1	(Optional) Configure brief xbar event logs for mts Tx
detail1	(Optional) Configure detail xbar event logs for mts Tx

### Command Mode

- /exec

# event-log-size

```
{ { [ eigrp ] event-log-size <size> } | { no [ eigrp ] event-log-size [ <size> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
event-log-size	Set IP-EIGRP event log size
<i>size</i>	Event log size

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# event-logging

no ] [ eigrp ] event-logging

## Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
event-logging	Log IP-EIGRP routing events

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# event

[no] event [ tag <tag\_id> ] neighbor-discovery

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
neighbor-discovery	Show CDP new neighbors

## Command Mode

- /exec/configure/event-manager-applet

# event

[no] event

## Syntax Description

no	Negate a command or set its defaults
event	Configure an event specification

## Command Mode

- /exec/configure/event-manager-applet

# event application

[no] event application [ tag <tag\_id> ] sub-system <sub-system-id> type <event-type>

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
application	Application specific event
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
sub-system	Sub-system ID that will publish the application event
<i>sub-system-id</i>	Sub-system ID value
type	Event type within the specified sub-system
<i>event-type</i>	Event type value

## Command Mode

- /exec/configure/event-manager-applet

# event cli

```
[no] event cli [ tag <tag_id> ] match <regex> [ count <countnum> [ time <interval> ] ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
cli	Create a cli event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
match	Enter cli regex to be used for matching
<i>regex</i>	CLI regex, use * to wildcard a token
count	(Optional) Enter an integer to be used as count
<i>countnum</i>	(Optional) Integer count
time	(Optional) Enter time interval within which the events need to happen
<i>interval</i>	(Optional) Time interval in seconds, 0 for indefinitely

## Command Mode

- /exec/configure/event-manager-applet



# event counter

[no] event counter [ tag <tag\_id> ] name <counter-name> entry-val <entry-val> entry-op <entry-op> [ exit-val <exit-val> exit-op <exit-op> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
counter	Create a counter event
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
name	Enter the name of the counter
<i>counter-name</i>	Name of the counter
entry-val	Specify the counter entry conditions
<i>entry-val</i>	Specify the value for comparison with the counter value
entry-op	Specify the operator to be used for comparison
<i>entry-op</i>	Specify the comparison operator
exit-val	(Optional) Specify the counter exit conditions
<i>exit-val</i>	(Optional) Specify the value for comparison with the counter value
exit-op	(Optional) Specify the operator to be used for comparison
<i>exit-op</i>	(Optional) Specify the comparison operator

## Command Mode

- /exec/configure/event-manager-applet

## event fanabsent

[no] event fanabsent [ fan <fan-number> ] time <time-interval>

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fanabsent	Create fanabsent event specification
fan	(Optional) Optional. Enter fan number (optional arg)
<i>fan-number</i>	(Optional) Enter fan-number
time	Enter time
<i>time-interval</i>	Time in seconds fan can stay absent

### Command Mode

- /exec/configure/event-manager-applet

# event fanbad

[no] event fanbad [ fan <fan-number> ] time <time-interval>

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fanbad	Create fanbad event specification
fan	(Optional) Optional. Enter fan number (optional arg)
<i>fan-number</i>	(Optional) Enter fan-number
time	Enter time
<i>time-interval</i>	Time in seconds fan can stay bad

## Command Mode

- /exec/configure/event-manager-applet

## event manager applet

[no] event manager applet <name> [ module <module-id> ] [ override <override-name> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Event Manager commands
manager	Event Manager commands
applet	Create/Modify an Event Manager Policy
<i>name</i>	Name of policy (cannot have underscore in first two characters)
module	(Optional) Restrict policy to a module
<i>module-id</i>	(Optional)
override	(Optional) Override a system policy
<i>override-name</i>	(Optional) Name of the system policy to override - should begin with double underscore

### Command Mode

- /exec/configure

# event manager clear counter

event manager clear counter <counter-name>

## Syntax Description

event	Event Manager commands
manager	Event Manager commands
clear	Clear event manager information
counter	Clear the value of a counter
<i>counter-name</i>	Name of the counter

## Command Mode

- /exec

# event manager clear history events

event manager clear history events

## Syntax Description

event	Event Manager commands
manager	Event Manager commands
clear	Clear event manager information
history	Clear the stored/archived information
events	Clear all the stored/archived event history for this VDC

## Command Mode

- /exec

# event manager command maximum-timeout

event manager command maximum-timeout

## Syntax Description

event	Event Manager commands
manager	Event Manager commands
command	Cli's configured as policy actions
maximum-timeout	Allot maximum timeout for cli action execution

## Command Mode

- /exec

## event manager environment

event manager environment <varname> <varvalue> | no event manager environment <varname>

### Syntax Description

no	Negate a command or set its defaults
event	Event Manager commands
manager	Event Manager commands
environment	Configure an environment variable
<i>varname</i>	Name of the environment variable
<i>varvalue</i>	Value of the environment variable

### Command Mode

- /exec/configure



# event manager policy

event manager policy <name>

## Syntax Description

event	Event Manager commands
manager	Event Manager commands
policy	Register a script policy and activate it
<i>name</i>	Name of the script policy file

## Command Mode

- /exec/configure

## event manager run

```
event manager run <policy-name> [ <arg1> [ <arg2> [ <arg3> [ <arg4> [ <arg5> [ <arg6> [ <arg7> [ <arg8>
[ <arg9> [ <arg10> ]]]]]]]]]]]
```

### Syntax Description

event	Event Manager commands
manager	Event Manager commands
run	Trigger/run an event manager policy manually
<i>policy-name</i>	Name of the policy to be triggered-cannot specify default system policy
<i>arg1</i>	(Optional) User specified data value 1
<i>arg2</i>	(Optional) User specified data value 2
<i>arg3</i>	(Optional) User specified data value 3
<i>arg4</i>	(Optional) User specified data value 4
<i>arg5</i>	(Optional) User specified data value 5
<i>arg6</i>	(Optional) User specified data value 6
<i>arg7</i>	(Optional) User specified data value 7
<i>arg8</i>	(Optional) User specified data value 8
<i>arg9</i>	(Optional) User specified data value 9
<i>arg10</i>	(Optional) User specified data value 10

### Command Mode

- /exec

# event manager script

[no] event manager script <name> [ override <override-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Event Manager commands
manager	Event Manager commands
script	Create/Modify an Event Manager Policy
<i>name</i>	Name of the policy - cannot have underscore in first two characters
override	(Optional) Have this policy override a system policy
<i>override-name</i>	(Optional) Name of the system policy to override - should begin with double underscore

## Command Mode

- /exec/configure

## event memory

[no] event memory { minor | severe | critical }

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
memory	Create memory thresholds event specification
minor	Minor alert
severe	Severe alert
critical	Critical alert

### Command Mode

- /exec/configure/event-manager-applet

# event module-failure

[no] event module-failure [ tag <tag\_id> ] type <err-name> module { all | <module> } count <countnum> [ time <interval> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
module-failure	Create a 'module-failure' event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
type	Enter an error type
<i>err-name</i>	
module	Enter a module number
all	All modules
<i>module</i>	Enter module number
count	Enter an integer to be used as count
<i>countnum</i>	Integer count
time	(Optional) Enter time interval within which the events need to happen
<i>interval</i>	(Optional) Time interval in seconds

## Command Mode

- /exec/configure/event-manager-applet

## event module

```
[no] event module [ tag <tag_id> ] status { online | offline | any } module1 { all | <module> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
module	Create a 'module' event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
status	Status event
online	Online status
offline	Offline status
any	Online or offline status
module1	Enter a module number
all	All modules
<i>module</i>	Enter module number

### Command Mode

- /exec/configure/event-manager-applet

# event none

[no] event none [ tag <tag\_id> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
none	Manually run policy event with none
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name

## Command Mode

- /exec/configure/event-manager-applet

## event oir

```
[no] event oir [ tag <tag_id> ] module { insert | remove | anyoir } [ <module> ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
module	Module OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>module</i>	(Optional) Optional. Enter module number

### Command Mode

- /exec/configure/event-manager-applet



# event oir

[no] event oir [ tag <tag\_id> ] powersupply { insert | remove | anyoir } [ <powersupnum> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
powersupply	powersupply OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>powersupnum</i>	(Optional) Optional. Enter powersupply number

## Command Mode

- /exec/configure/event-manager-applet

## event oir

[no] event oir [ tag <tag\_id> ] fan { insert | remove | anyoir } [ <fannum> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
fan	Fan OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>fannum</i>	(Optional) Optional. Enter Fan number.

### Command Mode

- /exec/configure/event-manager-applet

# event policy-default count

[no] event policy-default count <countnum> [ time <interval> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
policy-default	Use the event in the system policy being overridden
count	Enter an integer to be used as count
<i>countnum</i>	Integer count
time	(Optional) Enter time interval within which the events need to happen
<i>interval</i>	(Optional) Time interval in seconds

## Command Mode

- /exec/configure/event-manager-applet

# event poweroverbudget

[no] event poweroverbudget

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
poweroverbudget	Create poweroverbudget event specification

## Command Mode

- /exec/configure/event-manager-applet

## event snmp

```
[no] event snmp [ tag <tag_id> ] oid <oid-val> get-type { exact | next } entry-op { ent_gt | ent_ge | ent_eq |
ent_ne | ent_lt | ent_le } entry-val <entry-val> [ { exit-comb { or | and } exit-op { ex_gt | ex_ge | ex_eq | ex_ne
| ex_lt | ex_le } exit-val <exit-val> exit-time <exit-time-val> } | { exit-op1 { ex_gt1 | ex_ge1 | ex_eq1 | ex_ne1
| ex_lt1 | ex_le1 } exit-val1 <exit-val1> } ] poll-interval <poll-int-val>
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
snmp	Create a 'snmp' event specification.
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
oid	oid of data element in dot notation.
<i>oid-val</i>	oid of data element in dot notation.
get-type	The type of SNMP get operation.
exact	exact
next	next
entry-op	entry comparison operator.
ent_gt	greater than
ent_ge	greater than or equal to
ent_eq	equal to
ent_ne	not equal to
ent_lt	less than
ent_le	less than or equal to
entry-val	value to compare with the current polled value
<i>entry-val</i>	value to compare with the current polled value
exit-comb	(Optional) exit criterion combination
or	(Optional) logical OR
and	(Optional) logical AND
exit-op	(Optional) exit comparison operator.

ex_gt	(Optional) greater than
ex_ge	(Optional) greater than or equal to
ex_eq	(Optional) equal to
ex_ne	(Optional) not equal to
ex_lt	(Optional) less than
ex_le	(Optional) less than or equal to
exit-val	(Optional) value to compare with the current polled value
<i>exit-val</i>	(Optional) value to compare with the current polled value
exit-op1	(Optional) exit comparison operator.
ex_gt1	(Optional) greater than
ex_ge1	(Optional) greater than or equal to
ex_eq1	(Optional) equal to
ex_ne1	(Optional) not equal to
ex_lt1	(Optional) less than
ex_le1	(Optional) less than or equal to
exit-val1	(Optional) value to compare with the current polled value
<i>exit-val1</i>	(Optional) value to compare with the current polled value
exit-time	(Optional) exit time
<i>exit-time-val</i>	(Optional) exit time in seconds
poll-interval	polling interval
<i>poll-int-val</i>	polling interval in seconds

### Command Mode

- /exec/configure/event-manager-applet

# event storm-control

[no] event storm-control

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
storm-control	Create a storm control event specification

## Command Mode

- /exec/configure/event-manager-applet

## event sysmgr memory

[no] event sysmgr memory [ module <module> ] major <i0> minor <i1> clear <i2>

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
sysmgr	system manager related events
memory	memory alert event
module	(Optional) Optional. Enter module number
<i>module</i>	(Optional) Enter module-number
major	set major memory threshold
<i>i0</i>	major memory threshold
minor	set minor memory threshold
<i>i1</i>	minor memory threshold
clear	set clear memory alert threshold
<i>i2</i>	clear memory threshold

### Command Mode

- /exec/configure/event-manager-applet



## event sysmgr switchover count

[no] event sysmgr switchover count <countnum> time <interval>

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
sysmgr	System manager related events
switchover	Switchover related event
count	Number of switchovers after which event should be triggered
<i>countnum</i>	Integer count
time	Enter time interval within which the events need to happen
<i>interval</i>	Time interval in seconds

### Command Mode

- /exec/configure/event-manager-applet

## event temperature

[no] event temperature [ module <module> ] [ sensor <sensornum> ] threshold { major | minor | any }

### Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
temperature	Create temperature event specification
module	(Optional) Optional. Enter module number (optional arg)
<i>module</i>	(Optional) Enter module-number
sensor	(Optional) Optional. Enter sensor number (optional arg)
<i>sensornum</i>	(Optional) Enter sensor number
threshold	Enter Major or Minor threshold
major	Major threshold
minor	Minor threshold
any	Major or Minor

### Command Mode

- /exec/configure/event-manager-applet

# event timer

```
[no] event timer [ tag <tag_id> ] { watchdog wtime <watchdog-time> | absolute atime <absolute-time> |
countdown ctime <countdown-time> | cron cron-entry <cron-time> } [ name <timer_name> ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
timer	Create a timer event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
name	(Optional) name of the timer
<i>timer_name</i>	(Optional) Enter the timer name
watchdog	Watchdog timer event
wtime	Time period for watchdog
<i>watchdog-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
absolute	Absolute timer event.
atime	epoch time for absolute. Try epochconverter online tool to get value
<i>absolute-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
countdown	Countdown timer event
ctime	Time period for countdown
<i>countdown-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
cron	Cron timer event
cron-entry	Cron entry string
<i>cron-time</i>	format: * * * * * => min hour dom month dow

## Command Mode

- /exec/configure/event-manager-applet

## event track

event track [ tag <tag\_id> ] <object-id> state { any | up | down } | no event track [ tag <tag\_id> ] <object-id>

### Syntax Description

no	Negate a command or set its defaults
event	Configure an event specification
track	Create a 'track' event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
<i>object-id</i>	Track objects
state	State of tracking object
any	Any state
down	Down state
up	Up state

### Command Mode

- /exec/configure/event-manager-applet

# exceptionlog module

exceptionlog module <module> syserr <syserr> devid <id> errtype <type> errcode <code> phylayer <phy> ports <list> harderror <hard> [ { desc <str> } ] [ { inband <intinband> } ]

## Syntax Description

exceptionlog	Exception log
module	Enter a module number
<i>module</i>	Enter module number
syserr	Enter syserr
<i>syserr</i>	Syserr code
devid	Enter device id
<i>id</i>	Device id
errtype	Enter error type
<i>type</i>	Error type
errcode	Enter error code
<i>code</i>	Error code
phylayer	Enter phy layer
<i>phy</i>	Phy layer
ports	Enter failed ports
<i>list</i>	List of ports
harderror	Irrecoverable error?
<i>hard</i>	Error sub-category
desc	(Optional) Enter error description
<i>str</i>	(Optional) Error description
inband	(Optional) inband flag
<i>intinband</i>	(Optional) inband flag

## Command Mode

- /exec

## exclude access-list

[no] exclude access-list <acl-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
exclude	ACL to exclude from redirection
access-list	ITD access-list name
<i>acl-name</i>	ITD exclude ACL name

### Command Mode

- /exec/configure/itd

# exec-timeout

{ exec-timeout <i0> | no exec-timeout [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
exec-timeout	Configure exec timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

## Command Mode

- /exec/configure/console

# exec-timeout

{ exec-timeout <i0> | no exec-timeout [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
exec-timeout	Configure exec timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

## Command Mode

- /exec/configure/line



# exit

exit

## Syntax Description

exit	Exit from command interpreter
------	-------------------------------

## Command Mode

- /global

# exit

exit

## Syntax Description

exit	Exit from command interpreter
------	-------------------------------

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp  
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho  
/exec/configure/ip-sla/pong

# exp

[no] exp { default | <val> [ <val> [ <val> [ <val> [ <val> [ <val> [ <val> [ <val> ] ] ] ] ] ] ] ] [ default ] }

## Syntax Description

no	(Optional) Negate a command or set its defaults
exp	Set the experimental values allowed for this interface
default	Default all unconfigured exp to this interface
val	Enter up to 8 experimental values separated by white-spaces

## Command Mode

- /exec/configure/tunnel-te/cbts-member

# explicit-null

explicit-null [ for <px-list> ] [ to <peer-px-list> ] | no explicit-null

## Syntax Description

no	Negate a command or set its defaults
explicit-null	Advertise Explicit Null label in place of Implicit Null
for	(Optional) Prefix list specifying controls on destination prefixes
<i>px-list</i>	(Optional) Name of prefix list
to	(Optional) Access-list specifying controls on LDP peers
<i>peer-px-list</i>	(Optional) Name of prefix list

## Command Mode

- /exec/configure/ldp

# explicit-path

[no] explicit-path { identifier <id> | name <string> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
explicit-path	Configure explicit-path
identifier	Specify explicit path by number
<i>id</i>	Enter number
name	Specify explicit path by name
<i>string</i>	Enter name

## Command Mode

- /exec/configure/te

# export map

[no] export map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
export	VRF export
map	Route-map based VRF export
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

# export vrf default

[no] export vrf default [ <prefix-limit> ] map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
export	VRF export
vrf	Virtual Router Context
default	VRF name (default)
<i>prefix-limit</i>	(Optional) Maximum prefix limit
map	Route-map based VRF import
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

# exporter

[no] exporter <exportername>

## Syntax Description

exporter	Add an Exporter to use to export records
<i>exportername</i>	Name of exporter

## Command Mode

- /exec/configure/nfm-monitor





## F Commands

---

- [failaction](#), on page 1079
- [fast-external-falover](#), on page 1080
- [fast-flood enable](#), on page 1081
- [fast-flood enable](#), on page 1082
- [fast-flood interval](#), on page 1083
- [fast-flood interval](#), on page 1084
- [fast-reroute](#), on page 1085
- [fast-reroute backup-prot-preempt optimize-bw](#), on page 1086
- [feature-set](#), on page 1087
- [feature-set](#), on page 1088
- [feature](#), on page 1089
- [feature bash-shell](#), on page 1090
- [feature bfd](#), on page 1091
- [feature bgp](#), on page 1092
- [feature eigrp](#), on page 1093
- [feature evmed](#), on page 1094
- [feature fabric forwarding](#), on page 1095
- [feature interface-vlan](#), on page 1096
- [feature isis](#), on page 1097
- [feature lacp](#), on page 1098
- [feature ldap](#), on page 1099
- [feature lldp](#), on page 1100
- [feature msdp](#), on page 1101
- [feature ntp](#), on page 1102
- [feature nxapi](#), on page 1103
- [feature ospf](#), on page 1104
- [feature ospfv3](#), on page 1105
- [feature password encryption aes](#), on page 1106
- [feature pbr](#), on page 1107
- [feature pim](#), on page 1108
- [feature poap](#), on page 1109
- [feature privilege](#), on page 1110
- [feature rip](#), on page 1111

- [feature scheduler](#), on page 1112
- [feature scp-server](#), on page 1113
- [feature sftp-server](#), on page 1114
- [feature ssh](#), on page 1115
- [feature tacacs](#), on page 1116
- [feature telnet](#), on page 1117
- [feature vtp](#), on page 1118
- [fhrp delay minimum](#), on page 1119
- [fhrp delay reload](#), on page 1120
- [filesystem delete](#), on page 1121
- [filter-list](#), on page 1122
- [filter](#), on page 1123
- [find](#), on page 1124
- [fips mode enable](#), on page 1125
- [flow exporter](#), on page 1126
- [flow monitor](#), on page 1127
- [flow record](#), on page 1128
- [flow timeout](#), on page 1129
- [flow timeout active](#), on page 1130
- [flow timeout aggressive threshold](#), on page 1131
- [flow timeout fast](#), on page 1132
- [flow timeout inactive](#), on page 1133
- [flow timeout session](#), on page 1134
- [flowcontrol](#), on page 1135
- [flowcontrol hardware](#), on page 1136
- [flush-routes](#), on page 1137
- [flush-routes](#), on page 1138
- [flush-routes](#), on page 1139
- [flush-routes](#), on page 1140
- [flush-routes](#), on page 1141
- [flush-routes](#), on page 1142
- [follow](#), on page 1143
- [forceshut](#), on page 1144
- [forwarder preempt](#), on page 1145
- [forwarding-adjacency](#), on page 1146
- [fragments](#), on page 1147
- [frequency](#), on page 1148
- [from](#), on page 1149

# failaction

[no] failaction { [ node { reassign | drop } ] | [ cluster drop ] } +

## Syntax Description

no	(Optional) Negate a command or set its defaults
failaction	ITD failaction
node	(Optional) ITD failaction node
reassign	(Optional) ITD failaction reassign
drop	(Optional) ITD failaction drop
cluster	(Optional) ITD failaction cluster

## Command Mode

- /exec/configure/itd

# fast-external-fallover

[no] fast-external-fallover

## Syntax Description

no	(Optional) Negate a command or set its defaults
fast-external-fallover	Immediately reset the session if the link to a directly connected BGP peer goes down

## Command Mode

- /exec/configure/router-bgp

# fast-flood enable

[no] fast-flood enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
enable	Turn on fast-flooding

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# fast-flood enable

[no] fast-flood enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
enable	Turn on fast-flooding

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# fast-flood interval

[no] fast-flood interval <interval>

## Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
interval	Duration/interval of the fast-flood timer.
<i>interval</i>	Specify the value (ms)

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# fast-flood interval

[no] fast-flood interval <interval>

## Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
interval	Duration/interval of the fast-flood timer.
<i>interval</i>	Specify the value (ms)

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common



# fast-reroute

[no] fast-reroute | fast-reroute [ node-protect | bw-protect ] +

## Syntax Description

no	Negate a command or set its defaults
fast-reroute	Specify mpls tunnel can be fast-rerouted
node-protect	(Optional) node protection desired
bw-protect	(Optional) bandwidth protection desired

## Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

## fast-reroute backup-prot-preempt optimize-bw

[no] fast-reroute backup-prot-preempt optimize-bw | no fast-reroute timers promotion | fast-reroute timers promotion <seconds>

### Syntax Description

no	(Optional) Negate a command or set its defaults
fast-reroute	fast-reroute parameters
backup-prot-preempt	Preemption algorithm for backup tunnels
optimize-bw	Reduce bandwidth wastage (default: minimize LSPs preempted)
timers	configure fast-reroute timer
promotion	Configure how often we scan for LSP backup promotion
<i>seconds</i>	seconds between promotions (0 disables promotion.)

### Command Mode

- /exec/configure/te

# feature-set

[no] feature-set <fs>

## Syntax Description

no	Negate a command or set its defaults
feature-set	Enable feature-set
<i>fs</i>	allow feature-set

## Command Mode

- /exec/configure

# feature-set

feature-set <fs>

## Syntax Description

feature-set	Enable feature-set
<i>fs</i>	allow feature-set

## Command Mode

- /exec/configure

# feature

[no] feature <arg1>

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Feature name
<i>arg1</i>	Enter feature name

## Command Mode

- /exec/configure/rolefeaturegrp

# feature bash-shell

[no] feature bash-shell

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
bash-shell	Enable/Disable bash-shell

## Command Mode

- /exec/configure

# feature bfd

[no] feature bfd

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
bfd	bfd

## Command Mode

- /exec/configure

# feature bgp

[no] feature bgp

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
bgp	Enable/Disable Border Gateway Protocol (BGP)

## Command Mode

- /exec/configure



# feature eigrp

[no] feature eigrp

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
eigrp	Enable/Disable Enhanced Interior Gateway Routing Protocol (EIGRP)

## Command Mode

- /exec/configure

# feature evmed

[no] feature evmed

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
evmed	Enable/Disable Generic event detectors

## Command Mode

- /exec/configure

# feature fabric forwarding

[no] feature fabric forwarding

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
fabric	Enable/Disable Fabric Services
forwarding	Enable/Disable Fabric Forwarding Protocol: Host Mobility Manager (HMM)

## Command Mode

- /exec/configure

# feature interface-vlan

[no] feature interface-vlan

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
interface-vlan	Enable/Disable interface vlan

## Command Mode

- /exec/configure

# feature isis

[no] feature isis

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
isis	Enable/Disable IS-IS Unicast Routing Protocol (IS-IS)

## Command Mode

- /exec/configure

# feature lacp

[no] feature lacp

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
lacp	Enable/Disable LACP

## Command Mode

- /exec/configure

# feature ldap

[no] feature ldap

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ldap	Enable/Disable ldap

## Command Mode

- /exec/configure

# feature lldp

[no] feature lldp

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
lldp	Enable/Disable LLDP

## Command Mode

- /exec/configure



# feature msdp

[no] feature msdp

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
msdp	Enable/Disable Multicast Source Discovery Protocol (MSDP)

## Command Mode

- /exec/configure

# feature ntp

[no] feature ntp

## Syntax Description

no	(Optional) Negate a command or set its default
feature	Command to enable/disable features
ntp	Enable/Disable NTP

## Command Mode

- /exec/configure

# feature nxapi

[no] feature nxapi

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
nxapi	Enable/Disable nxapi

## Command Mode

- /exec/configure

# feature ospf

[no] feature ospf

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ospf	Enable/Disable Open Shortest Path First Protocol (OSPF)

## Command Mode

- /exec/configure

# feature ospfv3

[no] feature ospfv3

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ospfv3	Enable/Disable Open Shortest Path First Version 3 Protocol (OSPFv3)

## Command Mode

- /exec/configure

# feature password encryption aes

[no] feature password encryption aes

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Enable the feature
password	Credential(s) for the user(s)/device(s)
encryption	Strong encryption for credential(s)
aes	Encrypt using AES encryption standard

## Command Mode

- /exec/configure

# feature pbr

[no] feature pbr

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
pbr	Enable/Disable Policy Based Routing(PBR)

## Command Mode

- /exec/configure

# feature pim

[no] feature pim

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
pim	Enable/Disable Protocol Independent Multicast (PIM)

## Command Mode

- /exec/configure



# feature poap

[no] feature poap

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
poap	Enable/Disable POAP

## Command Mode

- /exec/configure

# feature privilege

[no] feature privilege

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
privilege	Enable/Disable IOS type privilege level support

## Command Mode

- /exec/configure

# feature rip

[no] feature rip

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
rip	Enable/Disable Routing Information Protocol (RIP)

## Command Mode

- /exec/configure

# feature scheduler

[no] feature scheduler

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
scheduler	Enable/Disable scheduler

## Command Mode

- /exec/configure

# feature scp-server

[no] feature scp-server

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
scp-server	Enable/Disable SCP server

## Command Mode

- /exec/configure

# feature sftp-server

[no] feature sftp-server

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
sftp-server	Enable/Disable SFTP server

## Command Mode

- /exec/configure

# feature ssh

[no] feature ssh

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ssh	Enable/Disable ssh

## Command Mode

- /exec/configure

# feature tacacs

[no] feature tacacs +

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features

## Command Mode

- /exec/configure



# feature telnet

[no] feature telnet

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
telnet	Enable/Disable telnet

## Command Mode

- /exec/configure

# feature vtp

[no] feature vtp

## Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
vtp	Enable/Disable VTP

## Command Mode

- /exec/configure

# fhrp delay minimum

[no] fhrp delay minimum | fhrp delay minimum <delay>

## Syntax Description

no	Negate a command or set its defaults
fhrp	FHRP interface configuration commands
delay	Configure FHRP delay
minimum	minimum delay
<i>delay</i>	Seconds to delay

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

## fhrp delay reload

[no] fhrp delay reload | fhrp delay reload <delay>

### Syntax Description

no	Negate a command or set its defaults
fhrp	FHRP interface configuration commands
delay	Configure FHRP delay
reload	reload delay
<i>delay</i>	Seconds to delay

### Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

# fileys delete

fileys delete <*s0*>

## Syntax Description

fileys	file system command
delete	delete a file on file system
<i>s0</i>	file name

## Command Mode

- /exec

## filter-list

[ no | default ] { filter-list <fltrlist-name> | prefix-list <prfxlist-name> } { out | in }

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
filter-list	Apply AS-PATH filter-list
<i>fltrlist-name</i>	Name of filter-list
prefix-list	Apply prefix-list
<i>prfxlist-name</i>	Name of prefix-list
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

# filter

[no] filter [ subject-name <s0> | altname-email <s1> | altname-upn <s2> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
filter	Configure mapping filter
subject-name	(Optional) Subject name of the certificate
<i>s0</i>	(Optional) Subject name
altname-email	(Optional) Email id as an alternate name
<i>s1</i>	(Optional) Email id
altname-upn	(Optional) User principal name as an alternate name
<i>s2</i>	(Optional) User principal name

## Command Mode

- /exec/configure/certmap-filter

# find

find <*s0*>

## Syntax Description

find	Find a file below the current directory
<i>s0</i>	Enter the filename prefix to search

## Command Mode

- /exec



# fips mode enable

[no] fips mode enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
fips	Enable/Disable FIPS mode
mode	FIPS mode
enable	Enable/Disable FIPS mode

## Command Mode

- /exec/configure

# flow exporter

[no] flow exporter <exportername>

## Syntax Description

flow	Enable/Disable NetFlow configuration
exporter	Define a Flow Exporter
<i>exportername</i>	Name of Flow Exporter

## Command Mode

- /exec/configure

# flow monitor

[no] flow monitor <monitorname>

## Syntax Description

flow	Enable/Disable NetFlow configuration
monitor	Define a Flow Monitor
<i>monitorname</i>	Name of Flow Monitor

## Command Mode

- /exec/configure

# flow record

[no] flow record <recordname>

## Syntax Description

flow	Enable/Disable NetFlow configuration
record	Define a Flow Record
<i>recordname</i>	Record name

## Command Mode

- /exec/configure

# flow timeout

{ [ no ] flow timeout <time> | no flow timeout }

## Syntax Description

flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
<i>time</i>	Time in seconds (flush-cache-Only for F2 cards)

## Command Mode

- /exec/configure

## flow timeout active

{ [ no ] flow timeout active <time> | no flow timeout active }

### Syntax Description

flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
active	Active or long timeout
<i>time</i>	Time in seconds

### Command Mode

- /exec/configure

# flow timeout aggressive threshold

{ [ no ] flow timeout aggressive threshold <percentage> | no flow timeout aggressive }

## Syntax Description

flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
aggressive	Aggressive aging
threshold	Threshold to start the aggressive aging
<i>percentage</i>	Percentage of NetFlow Table full

## Command Mode

- /exec/configure

## flow timeout fast

```
{ [ no ] flow timeout fast <time> threshold <packets> | no flow timeout fast }
```

### Syntax Description

flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
fast	Fast aging timeout
<i>time</i>	Time in seconds
threshold	Threshold to start fast aging
<i>packets</i>	Number of packets in flow before timeout for the flow to not expire

### Command Mode

- /exec/configure



# flow timeout inactive

{ [ no ] flow timeout inactive <time> | no flow timeout inactive }

## Syntax Description

flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
inactive	inactive or normal timeout
<i>time</i>	Time in seconds

## Command Mode

- /exec/configure

# flow timeout session

[no] flow timeout session

## Syntax Description

flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
session	Enable TCP session aging

## Command Mode

- /exec/configure

# flowcontrol

```
flowcontrol { receive { <rx_flowctrl> } | send { <tx_flowctrl> } } | no flowcontrol { receive [ { <rx_flowctrl> } ] | send [ { <tx_flowctrl> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
flowcontrol	Configure interface flowcontrol
receive	Receive pause frames
<i>rx_flowctrl</i>	Receive flow control
send	Send pause frames
<i>tx_flowctrl</i>	Send flow control

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# flowcontrol hardware

[no] flowcontrol hardware

## Syntax Description

no	(Optional) Negate a command or set its defaults
flowcontrol	Set flow control
hardware	Set hardware flowcontrol

## Command Mode

- /exec/configure/com1

# flush-routes

[no] flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes in RIB during restart

## Command Mode

- /exec/configure/router-rip

# flush-routes

[no] flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes on a non-graceful controlled restart

## Command Mode

- /exec/configure/router-ospf3

# flush-routes

[no] flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes in RIB upon controlled restart

## Command Mode

- /exec/configure/router-bgp

# flush-routes

[no] flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes in RIB during restart

## Command Mode

- /exec/configure/router-eigrp



# flush-routes

[no] flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes on a non-graceful controlled restart

## Command Mode

- /exec/configure/router-ospf

# flush-routes

[no] flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes on non-graceful controlled restart

## Command Mode

- /exec/configure/router-isis

# follow

follow <name> | no follow

## Syntax Description

no	Negate a command or set its defaults
follow	Group to be followed
<i>name</i>	master name string to follow

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# forceshut

```
forceshut [ { module <module> | <s0> <santa-cruz-range> | zone <zonenumber> <subzone> } ] reset-reason
<reset_reason_string>
```

## Syntax Description

forceshut	Force the entire switch to shut down
module	(Optional) Optional. Module to be forceshut(optional arg)
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) Power off a specific xbar
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
zone	(Optional) Optional. Zone to be forceshut(optional arg)
<i>zonenumber</i>	(Optional) please enter the zone number
<i>subzone</i>	(Optional) please enter the subzone number
reset-reason	Shut down (with reset-reason)
<i>reset_reason_string</i>	please enter reset_reason_string in quotes

## Command Mode

- /exec

# forwarder preempt

[no] forwarder preempt [ delay minimum <min-delay> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
forwarder	Forwarder Configuration
preempt	Overthrow lower priority designated routers
delay	(Optional) Wait before preempting
minimum	(Optional) Delay at least this long
<i>min-delay</i>	(Optional) Number of seconds for minimum delay

## Command Mode

- /exec/configure/if-eth-any/glbp

# forwarding-adjacency

[no] forwarding-adjacency | forwarding-adjacency [ holdtime <msec> ]

## Syntax Description

no	Negate a command or set its defaults
forwarding-adjacency	Treat this tunnel as a Forwarding Adjacency
holdtime	(Optional) How long in msec to wait upon flooding a down Forwarding Adjacency
<i>msec</i>	(Optional) Holdtime on MPLS TE Down

## Command Mode

- /exec/configure/if-te

# fragments

[no] fragments <opt\_type>

## Syntax Description

no	(Optional) Negate a command or set its defaults
<i>opt_type</i>	frag_op_type

## Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

# frequency

{ { no | default } frequency | frequency <seconds> }

## Syntax Description

no	
default	Set a command to its defaults
frequency	Frequency of an operation
<i>seconds</i>	Frequency in seconds

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp  
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho  
/exec/configure/ip-sla/pong



# from

```
[no] { { from <frm-list> to <to-val> } | { default { <value> | copy | ignore } } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
from	Map values from this
<i>frm-list</i>	Original list of values which are to be mapped
to	Map values to this
<i>to-val</i>	New mapped value
default	map default values
<i>value</i>	default value to be set
copy	Do a default copy
ignore	Ignore any unspecified values

## Command Mode

- /exec/configure/table-map

from



## G Commands

---

- [generate type7\\_encrypted\\_secret](#), on page 1152
- [getnext](#), on page 1153
- [graceful-restart-helper](#), on page 1154
- [graceful-restart](#), on page 1155
- [graceful-restart](#), on page 1156
- [graceful-restart](#), on page 1157
- [graceful-restart](#), on page 1158
- [graceful-restart](#), on page 1159
- [graceful-restart](#), on page 1160
- [graceful-restart](#), on page 1161
- [graceful-restart grace-period](#), on page 1162
- [graceful-restart grace-period](#), on page 1163
- [graceful-restart helper-disable](#), on page 1164
- [graceful-restart helper-disable](#), on page 1165
- [graceful-restart restart-time](#), on page 1166
- [graceful-restart stalepath-time](#), on page 1167
- [graceful-restart t3 manual](#), on page 1168
- [graceful-restart t3 manual](#), on page 1169
- [graceful consistency-check](#), on page 1170
- [grep](#), on page 1171
- [grep](#), on page 1172
- [grep](#), on page 1173
- [guestshell](#), on page 1174
- [gunzip](#), on page 1175
- [gzip](#), on page 1176

# generate type7\_encrypted\_secret

generate type7\_encrypted\_secret

## Syntax Description

generate	generate
type7_encrypted_secret	Type 7 Encrypted Secret

## Command Mode

- /exec

# getnext

getnext

## Syntax Description

	Pipe command output to filter
getnext	return next instance instead of specified one, or first instance if none specified (if supported by feature)

## Command Mode

- /output

# graceful-restart-helper

[no] graceful-restart-helper

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart-helper	Configure Graceful Restart Helper mode functionality

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# graceful-restart

[no] graceful-restart

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# graceful-restart

[no] graceful-restart [ planned-only ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
planned-only	(Optional) Enable graceful restart only for a planned restart

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf



# graceful-restart

{ { [ no ] [ eigrp ] graceful-restart } | { [ no ] nsf } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
graceful-restart	Peer resync without adjacency reset
nsf	Non-stop forwarding

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# graceful-restart

[no] graceful-restart [ planned-only ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
planned-only	(Optional) Enable graceful restart only for a planned restart

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# graceful-restart

[no] graceful-restart

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# graceful-restart

```
graceful-restart [ timers { forwarding-holding <fwdg-holdtime> | max-recovery <recovery-time> |
neighbor-liveness <peer-liveness-time> } ] | no graceful-restart [ timers { forwarding-holding | max-recovery
| neighbor-liveness } ]
```

## Syntax Description

no	Negate a command or set its defaults
graceful-restart	Configure LDP Graceful Restart
timers	(Optional) Configure Graceful Restart timers
forwarding-holding	(Optional) Forwarding State Holding time
<i>fwdg-holdtime</i>	(Optional) seconds
max-recovery	(Optional) Max-Recovery time
<i>recovery-time</i>	(Optional) seconds
neighbor-liveness	(Optional) Neighbor-Liveness time
<i>peer-liveness-time</i>	(Optional) seconds

## Command Mode

- /exec/configure/ldp

# graceful-restart

[no] graceful-restart

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## graceful-restart grace-period

[no] graceful-restart grace-period <grace-period>

### Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
grace-period	Configure maximum interval to restart gracefully
<i>grace-period</i>	Grace period in seconds

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# graceful-restart grace-period

[no] graceful-restart grace-period <grace-period>

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
grace-period	Configure maximum interval to restart gracefully
<i>grace-period</i>	Grace period in seconds

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# graceful-restart helper-disable

[no] graceful-restart helper-disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
helper-disable	Disable helper mode

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf



# graceful-restart helper-disable

[no] graceful-restart helper-disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
helper-disable	Disable helper mode

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

## graceful-restart restart-time

graceful-restart restart-time <restart-time> | no graceful-restart restart-time [ <restart-time> ]

### Syntax Description

no	Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality
restart-time	Maximum time for restart advertised to peers
<i>restart-time</i>	Restart time (seconds)

### Command Mode

- /exec/configure/router-bgp/vrf-cmds

# graceful-restart stalepath-time

graceful-restart stalepath-time <stalepath-time> | no graceful-restart stalepath-time [ <stalepath-time> ]

## Syntax Description

no	Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality
stalepath-time	Maximum time to keep a restarting peer's stale routes
<i>stalepath-time</i>	Stalepath time (seconds)

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# graceful-restart t3 manual

graceful-restart t3 manual <sec> | no graceful-restart t3 manual [ <sec> ]

## Syntax Description

no	Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS
t3	Set the T3 (RFC 3847) graceful restart timer
manual	Change manually T3 default value
<i>sec</i>	Specify T3 value (secs)

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# graceful-restart t3 manual

graceful-restart t3 manual <sec> | no graceful-restart t3 manual [ <sec> ]

## Syntax Description

no	Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS
t3	Set the T3 (RFC 3847) graceful restart timer
manual	Change manually T3 default value
<i>sec</i>	Specify T3 value (secs)

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# graceful consistency-check

[no] graceful consistency-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
graceful	Enable graceful features
consistency-check	Enable graceful type-1 consistency check

## Command Mode

- /exec/configure/vpc-domain

# grep

```
{ grep | egrep } [ count | ignore-case | line-number | invert-match | word-exp | line-exp | <ctx> | next <num> | prev <num> ] + <expr>
```

## Syntax Description

	Pipe command output to filter
grep	Grep - print lines matching a pattern
egrep	Egrep - print lines matching a pattern
count	(Optional) Print a total count of matching lines only
ignore-case	(Optional) Ignore case difference when comparing strings
line-number	(Optional) Print each match preceded by its line number
invert-match	(Optional) Print only lines that contain no matches for <expr>
word-exp	(Optional) Print only lines where the match is a complete word
line-exp	(Optional) Print only lines where the match is a whole line
<i>ctx</i>	(Optional) Print <num> lines of context on each side of every match
next	(Optional) Print <num> lines of context after every matching line
prev	(Optional) Print <num> lines of context before every matching line
<i>num</i>	(Optional) Print <num> lines of context
<i>expr</i>	Search for the expression

## Command Mode

- /output

# grep

{ grep | egrep } [ -c | -i | -n | -v | -w | -x | <ctx> | -A <num> | -B <num> ] + <expr>

## Syntax Description

	Pipe command output to filter
grep	Grep - print lines matching a pattern
egrep	Egrep - print lines matching a pattern
-c	(Optional) Print a total count of matching lines only
-i	(Optional) Ignore case difference when comparing strings
-n	(Optional) Print each match preceded by its line number
-v	(Optional) Print only lines that contain no matches for <expr>
-w	(Optional) Print only lines where the match is a complete word
-x	(Optional) Print only lines where the match is a whole line
ctx	(Optional) Print <num> lines of context on each side of every match
-A	(Optional) Print <num> lines of context after every matching line
-B	(Optional) Print <num> lines of context before every matching line
num	(Optional) Print <num> lines of context
expr	Search for the expression

## Command Mode

- /output



# grep

{ grep | egrep } [ -c | -i | -n | -v | -w | -x | <ctx> | -A <num> | -B <num> ] + [ -- ] <expr>

## Syntax Description

	Pipe command output to filter
grep	Grep
egrep	Egrep
-c	(Optional) Print a total count of matching lines only
-i	(Optional) Ignore case difference when comparing strings
-n	(Optional) Print each match preceded by its line number
-v	(Optional) Print only lines that contain no matches for <expr>
-w	(Optional) Print only lines where the match is a complete word
-x	(Optional) Print only lines where the match is a whole line
ctx	(Optional) Print <num> lines of context on each side of every match
-A	(Optional) Print <num> lines of context after every matching line
-B	(Optional) Print <num> lines of context before every matching line
num	(Optional) Print <num> lines of context
--	(Optional) --
expr	Search for the expression

## Command Mode

- /output

# guestshell

```
guestshell [ { enable [ { package <enable_uri> } ] } | { upgrade [ { package <upgrade_uri> } ] } | { disable }
| { destroy } | { reboot } | { sync } | { resize { rootfs <gsh_rootfs> | cpu <gsh_cpu> | memory <gsh_memory>
} } | { run { <cmd_args> } } ]
```

## Syntax Description

guestshell	Request a guest shell
enable	(Optional) Enable the guest shell service
upgrade	(Optional) Upgrade the guest shell service package to a different version
disable	(Optional) Disable the guest shell service package
destroy	(Optional) Disable and uninstall the guest shell service package
sync	(Optional) Synchronize the contents of the guest shell to standby supervisor
reboot	(Optional) Deactivate and reactivate the guest shell service
resize	(Optional) Resize the existing/default guest shell parameters
rootfs	(Optional) Resize the guest shell root filesystem to a larger value
<i>gsh_rootfs</i>	(Optional) New root filesystem size (in MB)
cpu	(Optional) Resize the system CPU share allocated to guest shell
<i>gsh_cpu</i>	(Optional) New CPU share allocation (as % of system CPU)
memory	(Optional) Resize the system memory allocated to guest shell
<i>gsh_memory</i>	(Optional) New memory size (in MB)
package	(Optional) Package location
<i>enable_uri</i>	(Optional) File name (with .ova extension) for the virtual service
<i>upgrade_uri</i>	(Optional) File name (with .ova extension) for the virtual service
run	(Optional) Execute/run program in the guest shell
<i>cmd_args</i>	(Optional) Executable with optional arguments

## Command Mode

- /exec

# gunzip

gunzip <uri0>

## Syntax Description

gunzip	Uncompresses LZ77 coded files
<i>uri0</i>	Enter filename (filename must have .gz extension)

## Command Mode

- /exec

# gzip

gzip <uri0>

## Syntax Description

gzip	Compresses file using LZ77 coding
<i>uri0</i>	Enter filename

## Command Mode

- /exec



## H Commands

---

- [ha-policy](#), on page 1179
- [ha-stateful](#), on page 1180
- [hardware access-list](#), on page 1181
- [hardware access-list lou resource threshold](#), on page 1182
- [hardware access-list tcam region](#), on page 1183
- [hardware access-list tcam region](#), on page 1184
- [hardware access-list tcam region ifacl](#), on page 1185
- [hardware access-list tcam region openflow](#), on page 1186
- [hardware ecmp hash-polynomial](#), on page 1187
- [hardware ejector enable](#), on page 1188
- [hardware fan-zone](#), on page 1189
- [hardware forwarding funcstats clear](#), on page 1190
- [hardware forwarding funcstats disable](#), on page 1191
- [hardware forwarding funcstats enable](#), on page 1192
- [hardware forwarding l3 resource route non-deterministic](#), on page 1193
- [hardware ip glean throttle](#), on page 1194
- [hardware ip glean throttle maximum](#), on page 1195
- [hardware ip glean throttle syslog](#), on page 1196
- [hardware ip glean throttle timeout](#), on page 1197
- [hardware ipv6 glean throttle](#), on page 1198
- [hardware ipv6 glean throttle maximum](#), on page 1199
- [hardware ipv6 glean throttle syslog](#), on page 1200
- [hardware ipv6 glean throttle timeout](#), on page 1201
- [hardware module boot-order reverse](#), on page 1202
- [hardware profile buffer info poll-interval](#), on page 1203
- [hardware profile buffer info port-threshold](#), on page 1204
- [hardware profile ecmp auto-recovery threshold](#), on page 1205
- [hardware profile ecmp resilient](#), on page 1206
- [hardware profile pfc mmu buffer-reservation](#), on page 1207
- [hardware profile portmode](#), on page 1208
- [hardware profile ucast6 lpm-65-to-127-max-limit](#), on page 1209
- [hardware profile ucast6 max-limit](#), on page 1210
- [hardware sample-redirect module](#), on page 1211

- head, on page 1212
- hello-interval, on page 1213
- hello-interval, on page 1214
- hello-interval, on page 1215
- hex, on page 1216
- history, on page 1217
- history, on page 1218
- history, on page 1219
- history, on page 1220
- history, on page 1221
- history buffer, on page 1222
- history syslog, on page 1223
- hold ip, on page 1224
- hold ipv6 route, on page 1225
- hold timeout, on page 1226
- holdtime, on page 1227
- host-reachability protocol bgp, on page 1228
- host-reachability protocol controller, on page 1229
- hostname, on page 1230
- hostname dynamic, on page 1231
- hostname dynamic, on page 1232
- hsrp, on page 1233
- hsrp, on page 1234
- hsrp anycast, on page 1235
- hsrp bfd, on page 1236
- hsrp bfd all-interfaces, on page 1237
- hsrp delay, on page 1238
- hsrp force state vlan, on page 1239
- hsrp internal, on page 1240
- hsrp mac-refresh, on page 1241
- hsrp timers extended-hold, on page 1242
- hsrp version, on page 1243
- human, on page 1244
- hw-module logging onboard, on page 1245
- hw-module logging onboard, on page 1246

# ha-policy

ha-policy { single-sup <hap-change> | dual-sup <sw-change> } +

## Syntax Description

ha-policy	Change HA policy for this VDC
<i>hap-change</i>	Change HA policy for this VDC
single-sup	Change HA policy for this VDC for single-sup situations
dual-sup	Change HA policy for this VDC for dual-sup situations
<i>sw-change</i>	Set hap policy

## Command Mode

- /exec/configure/vdc

# ha-stateful

[no] ha-stateful

## Syntax Description

no	(Optional) Negate a command or set its defaults
ha-stateful	Enable stateful OSPF HA

## Command Mode

- /exec/configure/router-ospf



# hardware access-list

[no] hardware access-list { resource-pooling | resource pooling } module <module-number>

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Show hardware information
access-list	Access Control List
resource-pooling	Enable ACL programming across TCAM banks
resource	hardware resource
pooling	Enable ACL programming across TCAM banks
module	module number
<i>module-number</i>	specify module number

## Command Mode

- /exec/configure

# hardware access-list lou resource threshold

[no] hardware access-list lou resource threshold <threshold>

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
lou	LOU
resource	hardware resource
threshold	port expansion threshold
<i>threshold</i>	value of threshold

## Command Mode

- /exec/configure

# hardware access-list tcam region

[no] hardware access-list tcam region <tcam\_type> <tcam\_size>

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>tcam_type</i>	
<i>tcam_size</i>	Enter tcam size

## Command Mode

- /exec/configure

## hardware access-list tcam region

[no] hardware access-list tcam region <udf\_tcam\_type> qualify udf { <udf\_name> } +

### Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>udf_tcam_type</i>	
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

### Command Mode

- /exec/configure

# hardware access-list tcam region ifacl

[no] hardware access-list tcam region ifacl <tcam\_size> double-wide

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
ifacl	IPV4 PACL size
<i>tcam_size</i>	Enter tcam size
double-wide	Double Width

## Command Mode

- /exec/configure

## hardware access-list tcam region openflow

[no] hardware access-list tcam region openflow <tcam\_size> double-wide

### Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
openflow	OPENFLOW region size
<i>tcam_size</i>	Enter tcam size
double-wide	Double Width

### Command Mode

- /exec/configure

# hardware ecmp hash-polynomial

hardware ecmp hash-polynomial <poly-type> | no hardware ecmp hash-polynomial

## Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
ecmp	ECMP configuration
hash-polynomial	Configure hash polynomial
<i>poly-type</i>	Polynomial type

## Command Mode

- /exec/configure

# hardware ejector enable

[no] hardware ejector enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
ejector	Card ejector functionality
enable	enabled means when both ejectors are open, card is powered down

## Command Mode

- /exec/configure



# hardware fan-zone

[no] hardware fan-zone <fan\_zone\_id> raise-speed <speed-to-raise>

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
fan-zone	Fan Zone supported in the switch
<i>fan_zone_id</i>	please enter fan zone id whose speed needs to be increased
raise-speed	Speed to be added for current fan zone speed
<i>speed-to-raise</i>	please enter additional fan speed

## Command Mode

- /exec/configure

# hardware forwarding funcstats clear

hardware forwarding funcstats clear

## Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
clear	Clear funcstats information

## Command Mode

- /exec

# hardware forwarding funcstats disable

hardware forwarding funcstats disable

## Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
disable	Disable funcstats recording and output

## Command Mode

- /exec

# hardware forwarding funcstats enable

hardware forwarding funcstats enable

## Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
enable	Enable funcstats recording and output

## Command Mode

- /exec

# hardware forwarding l3 resource route non-deterministic

[no] hardware forwarding l3 resource route non-deterministic

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	hardware information
forwarding	forwarding information
l3	Layer-3
resource	hardware resources
route	TCAM capacity to hold prefixes
non-deterministic	extend upto 1M

## Command Mode

- /exec/configure

# hardware ip glean throttle

[no] hardware ip glean throttle

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle

## Command Mode

- /exec/configure

# hardware ip glean throttle maximum

{ hardware ip glean throttle maximum <count> } | { no hardware ip glean throttle maximum }

## Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
maximum	Maximum number of entries
<i>count</i>	Count

## Command Mode

- /exec/configure

# hardware ip glean throttle syslog

{ hardware ip glean throttle syslog <pkt-count> } | { no hardware ip glean throttle syslog }

## Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
syslog	Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>	Packet count

## Command Mode

- /exec/configure



# hardware ip glean throttle timeout

{ hardware ip glean throttle timeout <timeout-in-sec> } | { no hardware ip glean throttle timeout }

## Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
timeout	Timeout
<i>timeout-in-sec</i>	Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

## Command Mode

- /exec/configure

# hardware ipv6 glean throttle

[no] hardware ipv6 glean throttle

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle

## Command Mode

- /exec/configure

# hardware ipv6 glean throttle maximum

{ hardware ipv6 glean throttle maximum <count> } | { no hardware ipv6 glean throttle maximum }

## Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
maximum	Maximum number of entries
<i>count</i>	Count

## Command Mode

- /exec/configure

# hardware ipv6 glean throttle syslog

{ hardware ipv6 glean throttle syslog <pkt-count> } | { no hardware ipv6 glean throttle syslog }

## Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
syslog	Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>	Packet count

## Command Mode

- /exec/configure

# hardware ipv6 glean throttle timeout

{ hardware ipv6 glean throttle timeout <timeout-in-sec> } | { no hardware ipv6 glean throttle timeout }

## Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
timeout	Timeout
<i>timeout-in-sec</i>	Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

## Command Mode

- /exec/configure

# hardware module boot-order reverse

[no] hardware module boot-order reverse

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
module	applies on all the modules
boot-order	Configure order of module power-up
reverse	reverse order of module power-up

## Command Mode

- /exec/configure

# hardware profile buffer info poll-interval

[no] hardware profile buffer info poll-interval [ module <module> ] timer <msec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	System buffer
info	Information
poll-interval	System buffer status polling interval
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
timer	Polling timer
<i>msec</i>	Polling timer value in msec

## Command Mode

- /exec/configure

## hardware profile buffer info port-threshold

[no] hardware profile buffer info port-threshold [ module <module> ] threshold <value>

### Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	System buffer
info	Information
port-threshold	Set port egress buffer usage threshold
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
threshold	threshold value
<i>value</i>	percentage of maximum usage

### Command Mode

- /exec/configure



# hardware profile ecmp auto-recovery threshold

hardware profile ecmp auto-recovery threshold <percentage> | no hardware profile ecmp auto-recovery threshold

## Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
ecmp	ECMP settings
auto-recovery	ECMP auto-recovery settings
threshold	ECMP table free percentage threshold for auto-recovery
<i>percentage</i>	Percentage

## Command Mode

- /exec/configure

# hardware profile ecmp resilient

[no] hardware profile ecmp resilient

## Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
ecmp	ECMP settings
resilient	Configure ECMP resilient mode

## Command Mode

- /exec/configure

# hardware profile pfc mmu buffer-reservation

[no] hardware profile pfc mmu buffer-reservation <percentage>

## Syntax Description

no	(Optional) Negate the command
hardware	N3K
profile	profile settings
pfc	System level priority-flow-control settings
mmu	Hardware memory management unit configuration
buffer-reservation	Shared pool buffer reservation
<i>percentage</i>	Percentage of shared pool buffers to be reserved

## Command Mode

- /exec/configure

# hardware profile portmode

{ hardware profile portmode <port-mode> [ 2-tuple ] } | no hardware profile portmode

## Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
portmode	QSFP port mode setting
<i>port-mode</i>	Configure QSFP port mode
2-tuple	(Optional) Display QSFP portnames in 2-tuple mode even in 10G mode

## Command Mode

- /exec/configure

## hardware profile ucast6 lpm-65-to-127-max-limit

{ hardware profile ucast6 lpm-65-to-127-max-limit <unicast-ent> } | { no hardware profile ucast6 lpm-65-to-127-max-limit }

### Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
ucast6	unicast ipv6 settings
lpm-65-to-127-max-limit	maximum limit for unicast ipv6 lpm-65-to-127 entries, default is 256
<i>unicast-ent</i>	Unicast ipv6 lpm-65-to-127 Table Entries

### Command Mode

- /exec/configure

## hardware profile ucast6 max-limit

{ hardware profile ucast6 max-limit <unicast-ent> } | { no hardware profile ucast6 max-limit }

### Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
ucast6	unicast ipv6 settings
max-limit	maximum limit for unicast ipv6 entries
<i>unicast-ent</i>	Unicast ipv6 Table Entries

### Command Mode

- /exec/configure

# hardware sample-redirect module

hardware sample-redirect module <num> redirect-interface <interface>

## Syntax Description

hardware	Change hardware usage settings
sample-redirect	Redirect netflow sampled data
module	Line card module
<i>num</i>	slot number
redirect-interface	Interface for redirecting the traffic
<i>interface</i>	Interface Name

## Command Mode

- /exec

# head

head [ -n <lines> ]

## Syntax Description

	Pipe command output to filter
head	Display first lines
-n	(Optional) modify number of lines (default 10)
<i>lines</i>	(Optional) number of lines to print

## Command Mode

- /output



# hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

# hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

# hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

# hex

hex <expr>

## Syntax Description

hex	calculator with results in decimal format
<i>expr</i>	the expression to compute (integer arithmetics)

## Command Mode

- /exec

# history

```
{ no | default } history { { buckets-kept } | { distributions-of-statistics-kept } | { enhanced [ interval [
<interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { filter } | { hours-of-statistics-kept } | { lives-kept }
| { statistics-distribution-interval } }
```

## Syntax Description

no	
<i>interval</i>	(Optional) buckets
default	Set a command to its defaults
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
filter	Add operation to History when...
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/pong

# history

```
history { { buckets-kept <num-buckets-kept> } | { distributions-of-statistics-kept <num-dist-stats> } | {
enhanced [ interval [ <interval-seconds> [ buckets [ <num-buckets> ] ] ] ] | { filter { all | failures | none |
overThreshold } } | { hours-of-statistics-kept <num-hours-of-stats> } | { lives-kept <life-size-value> } | {
statistics-distribution-interval <dist-interval> } }
```

## Syntax Description

<i>interval</i>	(Optional) buckets
<i>interval-seconds</i>	(Optional) <num-buckets>
<i>life-size-value</i>	<dist-interval>
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
enhanced	Enable enhanced history collection
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
<i>num-hours-of-stats</i>	Hour groups size value (default 2)
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size
<i>dist-interval</i>	Distribution interval value in msec (default 20)

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/pong

# history

```
history { { buckets-kept <num-buckets-kept> } | { distributions-of-statistics-kept <num-dist-stats> } | { filter
{ all | failures | none | overThreshold } } | { hours-of-statistics-kept <num-hours-of-stats> } | { lives-kept
<life-size-value> } | { statistics-distribution-interval <dist-interval> } }
```

## Syntax Description

<i>dist-interval</i>	<num-buckets-kept>
<i>num-hours-of-stats</i>	<life-size-value>
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
<i>life-size-value</i>	Life size value (default 0)

## Command Mode

- /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho

# history

```
{ no | default } history { { distributions-of-statistics-kept } | { enhanced [ interval [ <interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { hours-of-statistics-kept } | { statistics-distribution-interval } }
```

## Syntax Description

no	
<i>interval</i>	(Optional) buckets
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
default	Set a command to its defaults
history	History and Distribution Data
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
hours-of-statistics-kept	Maximum number of statistics hour groups to capture

## Command Mode

- /exec/configure/ip-sla/jitter



# history

```
history { { distributions-of-statistics-kept <num-dist-stats> } | { enhanced [ interval [ <interval-seconds> [
buckets [ <num-buckets> ] ] ] ] } | { hours-of-statistics-kept <num-hours-of-stats> } | {
statistics-distribution-interval <dist-interval> } }
```

## Syntax Description

<i>interval</i>	(Optional) buckets
<i>num-buckets</i>	(Optional) <num-hours-of-stats>
<i>enhanced</i>	hours-of-statistics-kept
history	History and Distribution Data
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
<i>num-hours-of-stats</i>	Hour groups size value (default 2)
statistics-distribution-interval	Statistics distribution interval size
<i>dist-interval</i>	Distribution interval value in msec (default 20)

## Command Mode

- /exec/configure/ip-sla/jitter

## history buffer

```
[no] history buffer [ { size [ <onep-historysize> [ purge <historypurge> ] ] } | { purge <historypurge> [ size <onep-historysize> ] } | { session [ <appname-str> ] } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
history	One Platform history trails
buffer	In memory buffering of API history trails
session	(Optional) Session history filter
<i>appname-str</i>	(Optional) Full or partial session name
size	(Optional) History buffer size in bytes
<i>onep-historysize</i>	(Optional) Bytes (default: 32768)
purge	(Optional) Purge the oldest or newest session history
<i>historypurge</i>	(Optional) Purge session history

### Command Mode

- /exec/configure/onep

# history syslog

[no] history syslog

## Syntax Description

no	(Optional) Negate a command or set its defaults
history	One Platform history trails
syslog	Enable the API history trails to syslog

## Command Mode

- /exec/configure/onep

# hold ip

```
hold ip { route | rnh } [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

## Syntax Description

hold	Hold
ip	IPv4
route	Hold routing information
rnh	Hold only RNH information
vrf	(Optional) 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
all	Hold all routes

## Command Mode

- /exec

# hold ipv6 route

```
hold ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

## Syntax Description

hold	Hold
ipv6	IPv6
route	Hold routing information
vrf	(Optional) 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
all	Hold all routes

## Command Mode

- /exec

# hold timeout

hold timeout <timeout\_val>

## Syntax Description

hold	Hold timer
timeout	timer timeout
<i>timeout_val</i>	timeout duration in seconds

## Command Mode

- /exec/configure/vpc-domain

# holdtime

holdtime { infinite | <secs> } | no holdtime

## Syntax Description

no	Negate a command or set its defaults
holdtime	LDP session holdtime
infinite	Ignore LDP session holdtime
<i>secs</i>	Holdtime in seconds

## Command Mode

- /exec/configure/ldp

## host-reachability protocol bgp

[no] host-reachability protocol bgp KEYWORD no Negate a command or set its defaults KEYWORD  
host-reachability Configure host reachability advertisement dynamic \$notvalidinn3k KEYWORD protocol  
Control protocol to use KEYWORD bgp Border Gateway Protocol

### Command Mode

- /exec/configure/if-nve



# host-reachability protocol controller

[no] host-reachability protocol controller KEYWORD no Negate a command or set its defaults KEYWORD host-reachability Configure host reachability advertisement dynamic \$notvalidinn3k KEYWORD protocol Control protocol to use KEYWORD controller Controller

## Command Mode

- /exec/configure/if-nve

# hostname

{ hostname | switchname } <name> | no { hostname | switchname }

## Syntax Description

no	Negate a command or set its defaults
hostname	Configure system's host name
switchname	Configure system's host name
<i>name</i>	Enter switchname

## Command Mode

- /exec/configure

# hostname dynamic

[no] hostname dynamic

## Syntax Description

no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# hostname dynamic

[no] hostname dynamic

## Syntax Description

no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# hsrp

[no] hsrp <group-id> [ ipv4 ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number (0-255 for HSRPv1)
ipv4	(Optional) Configure IP Version 4 group

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

# hsrp

[no] hsrp <group-id> ipv6

## Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number
ipv6	Configure IP Version 6 group

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

# hsrp anycast

[no] hsrp anycast <id> { ipv4 | ipv6 | both }

## Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP configuration commands
anycast	Anycast related commands
<i>id</i>	Bundle number
ipv4	Associate IP Version 4 for the bundle
ipv6	Associate IP Version 6 for the bundle
both	Associate IP Version 4 and 6 for the bundle

## Command Mode

- /exec/configure

# hsrp bfd

[no] hsrp bfd

## Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
bfd	BFD protocol

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all



# hsrp bfd all-interfaces

[no] hsrp bfd all-interfaces

## Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
bfd	BFD protocol
all-interfaces	On all interfaces

## Command Mode

- /exec/configure

# hsrp delay

hsrp delay { minimum <min-delay> | reload <reload-delay> } + | no hsrp delay [ minimum | reload ]

## Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
delay	HSRP initialisation delay
minimum	Minimum delay
reload	Delay after reload
<i>min-delay</i>	<0-10000> Delay in seconds
<i>reload-delay</i>	<0-10000> Delay in seconds
<i>minimum</i>	(Optional) reload

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

## hsrp force state vlan

hsrp force state vlan { <vlans> | all }

### Syntax Description

hsrp	Hot Standby Router Protocol (HSRP) information
force	Move the HSRP state
state	HSRP state
vlan	HSRP state changes for these vlans
all	Include all HSRP configured VLANs
<i>vlans</i>	VLAN IDs of the VLAN for which state change will affect

### Command Mode

- /exec

# hsrp internal

[no] hsrp internal [ sequence-number ] [ [ command <id> ] ] [ <data1> ] [ <data2> ] [ <data3> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP commands
internal	enable HSRP internals
sequence-number	(Optional) enable the sequence number transmit in Hellos
command	(Optional) Internal command specified through number
<i>id</i>	(Optional) Internal command value
<i>data1</i>	(Optional) Internal data1
<i>data2</i>	(Optional) Internal data2
<i>data3</i>	(Optional) Internal data3

## Command Mode

- /exec

# hsrp mac-refresh

hsrp mac-refresh [ <time> ] | no hsrp mac-refresh

## Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
mac-refresh	Interface mac-refresh time
<i>time</i>	(Optional) Timeout value (0-10000) in sec

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

# hsrp timers extended-hold

[no] hsrp timers extended-hold [ <extended-hold> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
timers	Global Timers
extended-hold	Extended Hold
<i>extended-hold</i>	(Optional) Time in seconds

## Command Mode

- /exec/configure

# hsrp version

hsrp version { 1 | 2 } | no hsrp version

## Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
version	HSRP version
1	Version 1
2	Version 2

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

# human

human

## Syntax Description

	Pipe command output to filter
human	output in human format

## Command Mode

- /output



# hw-module logging onboard

[no] hw-module logging onboard [ { counter-stats | module <module> [ { counter-stats } ] } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
hw-module	Enable/Disable OBFL information
logging	Enable/Disable OBFL information
onboard	Enable/Disable OBFL information
counter-stats	(Optional) Enable/Disable OBFL counter statistics
module	(Optional) Enable/Disable OBFL information for Module
<i>module</i>	(Optional) Enter module number

## Command Mode

- /exec/configure

## hw-module logging onboard

```
[no] hw-module logging onboard [ { environmental-history | error-stats | interrupt-stats | module <module>
[ { environmental-history | error-stats | interrupt-stats | obfl-logs | cpuhog } ] | obfl-logs | cpuhog } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
hw-module	Enable/Disable OBFL information
logging	Enable/Disable OBFL information
onboard	Enable/Disable OBFL information
environmental-history	(Optional) Enable/Disable OBFL environmental history
error-stats	(Optional) Enable/Disable OBFL error statistics
interrupt-stats	(Optional) Enable/Disable OBFL interrupt statistics
cpuhog	(Optional) Enable/Disable OBFL cpu hog events
module	(Optional) Enable/Disable OBFL information for Module
<i>module</i>	(Optional) Enter module number
obfl-logs	(Optional) Enable/Disable OBFL (boot-uptime/device-version/obfl-history)

### Command Mode

- /exec/configure



# I Commands

---

- [icmp-echo](#), on page 1260
- [icmpv6 cache disable](#), on page 1261
- [icmpv6 cfs-queue](#), on page 1262
- [icmpv6 library mts-queue](#), on page 1263
- [icmpv6 mts-queue](#), on page 1264
- [import](#), on page 1265
- [import interface](#), on page 1266
- [import map](#), on page 1267
- [import running-config](#), on page 1268
- [import vrf default](#), on page 1269
- [in-order-guarantee](#), on page 1270
- [include profile](#), on page 1271
- [include profile any](#), on page 1272
- [index](#), on page 1273
- [ingress-replication](#), on page 1274
- [ingress-replication protocol bgp](#), on page 1275
- [ingress-replication protocol static](#), on page 1276
- [ingress interface](#), on page 1277
- [inherit peer-policy](#), on page 1278
- [inherit peer-policy](#), on page 1279
- [inherit peer-session](#), on page 1280
- [inherit peer](#), on page 1281
- [inherit port-profile](#), on page 1282
- [inject-map](#), on page 1283
- [install](#), on page 1284
- [install activate](#), on page 1285
- [install add](#), on page 1286
- [install commit](#), on page 1287
- [install deactivate](#), on page 1288
- [install epld](#), on page 1289
- [install epld](#), on page 1290
- [install epld](#), on page 1291
- [install feature-set fex](#), on page 1292

- [install feature-set mpls, on page 1293](#)
- [install license, on page 1294](#)
- [install module, on page 1295](#)
- [install remove, on page 1296](#)
- [instance-id, on page 1297](#)
- [instance, on page 1298](#)
- [instance, on page 1299](#)
- [instance, on page 1300](#)
- [interface-vlan, on page 1301](#)
- [interface-vlan reset credits, on page 1302](#)
- [interface, on page 1303](#)
- [interface, on page 1304](#)
- [interface, on page 1305](#)
- [interface, on page 1306](#)
- [interface, on page 1307](#)
- [interface, on page 1308](#)
- [interface, on page 1309](#)
- [interface, on page 1310](#)
- [interface, on page 1311](#)
- [interface down delay, on page 1312](#)
- [ip, on page 1313](#)
- [ip, on page 1314](#)
- [ip, on page 1315](#)
- [ip, on page 1316](#)
- [ip, on page 1317](#)
- [ip, on page 1318](#)
- [ip, on page 1319](#)
- [ip, on page 1320](#)
- [ip, on page 1321](#)
- [ip, on page 1322](#)
- [ip, on page 1323](#)
- [ip, on page 1324](#)
- [ip, on page 1325](#)
- [ip, on page 1326](#)
- [ip, on page 1327](#)
- [ip, on page 1328](#)
- [ip, on page 1329](#)
- [ip, on page 1330](#)
- [ip, on page 1331](#)
- [ip, on page 1332](#)
- [ip, on page 1333](#)
- [ip, on page 1334](#)
- [ip, on page 1335](#)
- [ip, on page 1336](#)
- [ip, on page 1337](#)
- [ip, on page 1338](#)

- [ip, on page 1339](#)
- [ip, on page 1340](#)
- [ip, on page 1341](#)
- [ip, on page 1342](#)
- [ip, on page 1343](#)
- [ip, on page 1344](#)
- [ip, on page 1345](#)
- [ip, on page 1346](#)
- [ip, on page 1347](#)
- [ip, on page 1348](#)
- [ip, on page 1349](#)
- [ip, on page 1350](#)
- [ip, on page 1351](#)
- [ip, on page 1352](#)
- [ip, on page 1353](#)
- [ip access-class, on page 1354](#)
- [ip access-group, on page 1355](#)
- [ip access-list, on page 1356](#)
- [ip access-list match-local-traffic, on page 1357](#)
- [ip adjacency, on page 1358](#)
- [ip adjacency, on page 1359](#)
- [ip adjacency, on page 1360](#)
- [ip adjacency cache disable, on page 1361](#)
- [ip adjacency l2fm-reg, on page 1362](#)
- [ip adjacency notify interval, on page 1363](#)
- [ip adjacency route distance, on page 1364](#)
- [ip adjacency statistics collect, on page 1365](#)
- [ip adjacency statistics interval, on page 1366](#)
- [ip allow address-overlap, on page 1367](#)
- [ip allow port, on page 1368](#)
- [ip amt anycast-gateway-address, on page 1369](#)
- [ip amt anycast-relay-prefix, on page 1370](#)
- [ip amt gateway, on page 1371](#)
- [ip amt gateway send-discovery, on page 1372](#)
- [ip amt relay-advertisement-address, on page 1373](#)
- [ip amt relay, on page 1374](#)
- [ip arp, on page 1375](#)
- [ip arp broadcast mac-mismatch, on page 1376](#)
- [ip arp cache disable, on page 1377](#)
- [ip arp cache limit, on page 1378](#)
- [ip arp cfs-queue, on page 1379](#)
- [ip arp garp-storm, on page 1380](#)
- [ip arp garp-storm timer, on page 1381](#)
- [ip arp gratuitous hsrp duplicate, on page 1382](#)
- [ip arp gratuitous hsrp duplicate, on page 1383](#)
- [ip arp gratuitous request, on page 1384](#)

- [ip arp gratuitous update](#), on page 1385
- [ip arp inspection log-buffer](#), on page 1386
- [ip arp inspection trust](#), on page 1387
- [ip arp inspection validate](#), on page 1388
- [ip arp inspection vlan](#), on page 1389
- [ip arp mts-queue](#), on page 1390
- [ip arp off-list timeout](#), on page 1391
- [ip arp rarp fabric-forwarding](#), on page 1392
- [ip arp rarp fabric-forwarding rate-limit](#), on page 1393
- [ip arp request](#), on page 1394
- [ip arp synchronize](#), on page 1395
- [ip arp synchronize](#), on page 1396
- [ip arp timeout](#), on page 1397
- [ip arp timeout](#), on page 1398
- [ip as-path access-list](#), on page 1399
- [ip as-path access-list](#), on page 1400
- [ip auto-discard](#), on page 1401
- [ip cache disable](#), on page 1402
- [ip community-list expanded](#), on page 1403
- [ip community-list standard](#), on page 1404
- [ip community-list standard](#), on page 1405
- [ip default-gateway](#), on page 1406
- [ip dhcp packet strict-validation](#), on page 1407
- [ip dhcp relay](#), on page 1408
- [ip dhcp relay address](#), on page 1409
- [ip dhcp relay information option](#), on page 1410
- [ip dhcp relay information option trust](#), on page 1411
- [ip dhcp relay information option vpn](#), on page 1412
- [ip dhcp relay information trust-all](#), on page 1413
- [ip dhcp relay information trusted](#), on page 1414
- [ip dhcp relay source-interface](#), on page 1415
- [ip dhcp relay source-interface](#), on page 1416
- [ip dhcp relay sub-option circuit-id format-type string](#), on page 1417
- [ip dhcp relay sub-option type cisco](#), on page 1418
- [ip dhcp relay subnet-broadcast](#), on page 1419
- [ip dhcp smart-relay](#), on page 1420
- [ip dhcp smart-relay global](#), on page 1421
- [ip dhcp snooping](#), on page 1422
- [ip dhcp snooping information option](#), on page 1423
- [ip dhcp snooping ipsg-excluded vlan](#), on page 1424
- [ip dhcp snooping trust](#), on page 1425
- [ip dhcp snooping verify mac-address](#), on page 1426
- [ip dhcp snooping vlan](#), on page 1427
- [ip directed-broadcast](#), on page 1428
- [ip dns source-interface](#), on page 1429
- [ip domain-list](#), on page 1430

- ip domain-lookup, on page 1431
- ip domain-name, on page 1432
- ip eigrp, on page 1433
- ip eigrp, on page 1434
- ip extcommunity-list expanded, on page 1435
- ip extcommunity-list standard, on page 1436
- ip flow monitor, on page 1437
- ip flow monitor, on page 1438
- ip flow monitor, on page 1439
- ip flow monitor, on page 1440
- ip flow monitor, on page 1441
- ip flow monitor, on page 1442
- ip forward, on page 1443
- ip ftp source-interface, on page 1444
- ip host, on page 1445
- ip http source-interface, on page 1446
- ip icmp-errors source-interface, on page 1447
- ip igmp, on page 1448
- ip igmp, on page 1449
- ip igmp, on page 1450
- ip igmp allow-v3-asm, on page 1451
- ip igmp any-query-destination, on page 1452
- ip igmp bootup-delay, on page 1453
- ip igmp enforce-router-alert, on page 1454
- ip igmp event-history, on page 1455
- ip igmp event-history cli, on page 1456
- ip igmp event-history ha, on page 1457
- ip igmp event-history igmp-internal, on page 1458
- ip igmp event-history mtrace, on page 1459
- ip igmp event-history policy, on page 1460
- ip igmp event-history vrf, on page 1461
- ip igmp flush-routes, on page 1462
- ip igmp group-specific-strict, on page 1463
- ip igmp group-timeout, on page 1464
- ip igmp ha-stateful, on page 1465
- ip igmp immediate-leave, on page 1466
- ip igmp join-group, on page 1467
- ip igmp last-member-query-count, on page 1468
- ip igmp last-member-query-response-time, on page 1469
- ip igmp query-interval, on page 1470
- ip igmp query-max-response-time, on page 1471
- ip igmp report-link-local-groups, on page 1472
- ip igmp robustness-variable, on page 1473
- ip igmp snooping, on page 1474
- ip igmp snooping, on page 1475
- ip igmp snooping, on page 1476

- [ip igmp snooping](#), on page 1477
- [ip igmp snooping](#), on page 1478
- [ip igmp snooping event-history igmp-snoop-internal](#), on page 1479
- [ip igmp snooping event-history mfdm-sum](#), on page 1480
- [ip igmp snooping event-history mfdm](#), on page 1481
- [ip igmp snooping event-history rib](#), on page 1482
- [ip igmp snooping event-history vlan-events](#), on page 1483
- [ip igmp snooping event-history vlan](#), on page 1484
- [ip igmp snooping event-history vpc](#), on page 1485
- [ip igmp snooping explicit-tracking](#), on page 1486
- [ip igmp snooping explicit-tracking](#), on page 1487
- [ip igmp snooping fast-leave](#), on page 1488
- [ip igmp snooping fast-leave](#), on page 1489
- [ip igmp snooping group-timeout](#), on page 1490
- [ip igmp snooping group-timeout](#), on page 1491
- [ip igmp snooping last-member-query-count](#), on page 1492
- [ip igmp snooping last-member-query-count](#), on page 1493
- [ip igmp snooping last-member-query-interval](#), on page 1494
- [ip igmp snooping last-member-query-interval](#), on page 1495
- [ip igmp snooping link-local-groups-suppression](#), on page 1496
- [ip igmp snooping link-local-groups-suppression](#), on page 1497
- [ip igmp snooping link-local-groups-suppression](#), on page 1498
- [ip igmp snooping max-gq-miss](#), on page 1499
- [ip igmp snooping mrouter interface](#), on page 1500
- [ip igmp snooping mrouter interface](#), on page 1501
- [ip igmp snooping optimised-multicast-flood](#), on page 1502
- [ip igmp snooping proxy general-queries](#), on page 1503
- [ip igmp snooping proxy general-queries](#), on page 1504
- [ip igmp snooping querier-timeout](#), on page 1505
- [ip igmp snooping querier-timeout](#), on page 1506
- [ip igmp snooping querier](#), on page 1507
- [ip igmp snooping querier](#), on page 1508
- [ip igmp snooping query-interval](#), on page 1509
- [ip igmp snooping query-interval](#), on page 1510
- [ip igmp snooping query-max-response-time](#), on page 1511
- [ip igmp snooping query-max-response-time](#), on page 1512
- [ip igmp snooping report-suppression](#), on page 1513
- [ip igmp snooping report-suppression](#), on page 1514
- [ip igmp snooping report-suppression](#), on page 1515
- [ip igmp snooping robustness-variable](#), on page 1516
- [ip igmp snooping robustness-variable](#), on page 1517
- [ip igmp snooping self-mac-check](#), on page 1518
- [ip igmp snooping startup-query-count](#), on page 1519
- [ip igmp snooping startup-query-count](#), on page 1520
- [ip igmp snooping startup-query-interval](#), on page 1521
- [ip igmp snooping startup-query-interval](#), on page 1522



- [ip igmp snooping static-group](#), on page 1523
- [ip igmp snooping static-group](#), on page 1524
- [ip igmp snooping v3-report-suppression](#), on page 1525
- [ip igmp snooping v3-report-suppression](#), on page 1526
- [ip igmp snooping v3-report-suppression](#), on page 1527
- [ip igmp snooping version](#), on page 1528
- [ip igmp snooping version](#), on page 1529
- [ip igmp snooping vpc](#), on page 1530
- [ip igmp snooping vpc](#), on page 1531
- [ip igmp snooping vpc peer-link-exclude](#), on page 1532
- [ip igmp snooping vpc peer-routes-download](#), on page 1533
- [ip igmp spoof-check](#), on page 1534
- [ip igmp ssm-translate](#), on page 1535
- [ip igmp startup-query-count](#), on page 1536
- [ip igmp startup-query-interval](#), on page 1537
- [ip igmp state-limit](#), on page 1538
- [ip igmp syslog-threshold](#), on page 1539
- [ip igmp version](#), on page 1540
- [ip load-sharing address](#), on page 1541
- [ip load-sharing per-packet](#), on page 1542
- [ip local-proxy-arp](#), on page 1543
- [ip mroute](#), on page 1544
- [ip msdp description](#), on page 1545
- [ip msdp event-history cli](#), on page 1546
- [ip msdp event-history events](#), on page 1547
- [ip msdp event-history msdp-internal](#), on page 1548
- [ip msdp event-history routes](#), on page 1549
- [ip msdp event-history tcp](#), on page 1550
- [ip msdp flush-routes](#), on page 1551
- [ip msdp group-limit](#), on page 1552
- [ip msdp keepalive](#), on page 1553
- [ip msdp mesh-group](#), on page 1554
- [ip msdp no-sa-data](#), on page 1555
- [ip msdp originator-id](#), on page 1556
- [ip msdp password](#), on page 1557
- [ip msdp peer](#), on page 1558
- [ip msdp reconnect-interval](#), on page 1559
- [ip msdp redistribute](#), on page 1560
- [ip msdp sa-interval](#), on page 1561
- [ip msdp sa-limit](#), on page 1562
- [ip msdp sa-policy](#), on page 1563
- [ip msdp sa-policy](#), on page 1564
- [ip msdp shutdown](#), on page 1565
- [ip name-server](#), on page 1566
- [ip nat](#), on page 1568
- [ip nat inside source](#), on page 1569

- [ip nat outside source](#), on page 1571
- [ip nat pool](#), on page 1573
- [ip nat pool](#), on page 1574
- [ip nat translation](#), on page 1575
- [ip nat translation max-entries](#), on page 1576
- [ip nat translation sampling-timeout](#), on page 1577
- [ip ospf advertise-subnet](#), on page 1578
- [ip ospf authentication-key](#), on page 1579
- [ip ospf authentication](#), on page 1580
- [ip ospf authentication key-chain](#), on page 1581
- [ip ospf bfd](#), on page 1582
- [ip ospf cost](#), on page 1583
- [ip ospf dead-interval](#), on page 1584
- [ip ospf flood-bw-percentage](#), on page 1585
- [ip ospf hello-interval](#), on page 1586
- [ip ospf message-digest-key](#), on page 1587
- [ip ospf mtu-ignore](#), on page 1588
- [ip ospf network](#), on page 1589
- [ip ospf network point-to-point](#), on page 1590
- [ip ospf passive-interface](#), on page 1591
- [ip ospf priority](#), on page 1592
- [ip ospf retransmit-interval](#), on page 1593
- [ip ospf shutdown](#), on page 1594
- [ip ospf transmit-delay](#), on page 1595
- [ip pim](#), on page 1596
- [ip pim](#), on page 1597
- [ip pim](#), on page 1598
- [ip pim](#), on page 1599
- [ip pim](#), on page 1600
- [ip pim](#), on page 1601
- [ip pim anycast-rp](#), on page 1602
- [ip pim assert-rate-limit](#), on page 1603
- [ip pim auto-enable](#), on page 1604
- [ip pim auto-rp](#), on page 1605
- [ip pim auto-rp mapping-agent-policy](#), on page 1606
- [ip pim auto-rp rp-candidate-policy](#), on page 1607
- [ip pim bfd-instance](#), on page 1608
- [ip pim bfd](#), on page 1609
- [ip pim bidir-rp-limit](#), on page 1610
- [ip pim border](#), on page 1611
- [ip pim bsr](#), on page 1612
- [ip pim bsr bsr-policy](#), on page 1613
- [ip pim bsr rp-candidate-policy](#), on page 1614
- [ip pim df-offer-burst-interval](#), on page 1615
- [ip pim dr-delay](#), on page 1616
- [ip pim dr-delay](#), on page 1617

- [ip pim dr-priority](#), on page 1618
- [ip pim event-history assert-receive](#), on page 1619
- [ip pim event-history bidir](#), on page 1620
- [ip pim event-history cli](#), on page 1621
- [ip pim event-history hello](#), on page 1622
- [ip pim event-history join-prune-summary](#), on page 1623
- [ip pim event-history join-prune](#), on page 1624
- [ip pim event-history null-register](#), on page 1625
- [ip pim event-history packet](#), on page 1626
- [ip pim event-history pim-internal](#), on page 1627
- [ip pim event-history rp](#), on page 1628
- [ip pim event-history vpc](#), on page 1629
- [ip pim event-history vrf](#), on page 1630
- [ip pim flush-routes](#), on page 1631
- [ip pim hello-authentication ah-md5](#), on page 1632
- [ip pim hello-interval](#), on page 1633
- [ip pim jp-delay](#), on page 1634
- [ip pim jp-interval](#), on page 1635
- [ip pim jp-policy](#), on page 1636
- [ip pim log-neighbor-changes](#), on page 1637
- [ip pim mtu](#), on page 1638
- [ip pim mtu](#), on page 1639
- [ip pim neighbor-policy](#), on page 1640
- [ip pim null-reg-delay](#), on page 1641
- [ip pim null-reg-routes](#), on page 1642
- [ip pim pre-build-spt](#), on page 1643
- [ip pim register-policy](#), on page 1644
- [ip pim register-rate-limit](#), on page 1645
- [ip pim register-replicate](#), on page 1646
- [ip pim register-source](#), on page 1647
- [ip pim register-until-stop](#), on page 1648
- [ip pim rp-address](#), on page 1649
- [ip pim sparse-mode](#), on page 1650
- [ip pim ssm](#), on page 1651
- [ip pim state-limit](#), on page 1652
- [ip ping source-interface](#), on page 1653
- [ip policy match router-address](#), on page 1654
- [ip policy route-map](#), on page 1655
- [ip port-unreachable](#), on page 1656
- [ip port access-group](#), on page 1657
- [ip prefix-list](#), on page 1658
- [ip prefix-list](#), on page 1659
- [ip prefix-list](#), on page 1660
- [ip proxy-arp](#), on page 1661
- [ip radius source-interface](#), on page 1662
- [ip redirects](#), on page 1663

- [ip repopulate internal context array](#), on page 1664
- [ip rip authentication key-chain](#), on page 1665
- [ip rip authentication mode](#), on page 1666
- [ip rip summary-address](#), on page 1667
- [ip route](#), on page 1668
- [ip route static bfd](#), on page 1669
- [ip router isis](#), on page 1670
- [ip router ospf](#), on page 1671
- [ip router ospf](#), on page 1672
- [ip routing event-history](#), on page 1673
- [ip sla](#), on page 1674
- [ip sla group schedule](#), on page 1675
- [ip sla logging traps](#), on page 1677
- [ip sla reaction-configuration](#), on page 1678
- [ip sla reaction-trigger](#), on page 1679
- [ip sla reset](#), on page 1680
- [ip sla responder](#), on page 1681
- [ip sla restart](#), on page 1682
- [ip sla schedule](#), on page 1683
- [ip source-route](#), on page 1685
- [ip source](#), on page 1686
- [ip source binding](#), on page 1687
- [ip ssh source-interface](#), on page 1688
- [ip sticky-arp](#), on page 1689
- [ip summary-address eigrp](#), on page 1690
- [ip tacacs source-interface](#), on page 1691
- [ip tcp path-mtu-discovery](#), on page 1692
- [ip tcp synwait-time](#), on page 1693
- [ip telnet source-interface](#), on page 1694
- [ip tftp source-interface](#), on page 1695
- [ip traceroute source-interface](#), on page 1696
- [ip unnumbered](#), on page 1697
- [ip unreachable](#), on page 1698
- [ip verify source dhcp-snooping-vlan](#), on page 1699
- [ip verify unicast source reachable-via](#), on page 1700
- [ipv6](#), on page 1701
- [ipv6](#), on page 1702
- [ipv6](#), on page 1703
- [ipv6](#), on page 1704
- [ipv6](#), on page 1705
- [ipv6](#), on page 1706
- [ipv6](#), on page 1707
- [ipv6](#), on page 1708
- [ipv6 access-class](#), on page 1709
- [ipv6 access-list](#), on page 1710
- [ipv6 access-list match-local-traffic](#), on page 1711

- [ipv6 address, on page 1712](#)
- [ipv6 address, on page 1713](#)
- [ipv6 adjacency, on page 1714](#)
- [ipv6 adjacency, on page 1715](#)
- [ipv6 adjacency, on page 1716](#)
- [ipv6 adjacency l2fm-reg, on page 1717](#)
- [ipv6 adjacency route distance, on page 1718](#)
- [ipv6 amt gateway, on page 1719](#)
- [ipv6 amt gateway send-discovery, on page 1720](#)
- [ipv6 amt relay, on page 1721](#)
- [ipv6 cache disable, on page 1722](#)
- [ipv6 dad, on page 1723](#)
- [ipv6 dhcp relay, on page 1724](#)
- [ipv6 dhcp relay address, on page 1725](#)
- [ipv6 dhcp relay address, on page 1726](#)
- [ipv6 dhcp relay option type cisco, on page 1727](#)
- [ipv6 dhcp relay option vpn, on page 1728](#)
- [ipv6 dhcp relay source-interface, on page 1729](#)
- [ipv6 dhcp relay source-interface, on page 1730](#)
- [ipv6 flood unknown ucast, on page 1731](#)
- [ipv6 flow monitor, on page 1732](#)
- [ipv6 flow monitor, on page 1733](#)
- [ipv6 flow monitor, on page 1734](#)
- [ipv6 flow monitor, on page 1735](#)
- [ipv6 flow monitor, on page 1736](#)
- [ipv6 flow monitor, on page 1737](#)
- [ipv6 forward, on page 1738](#)
- [ipv6 host, on page 1739](#)
- [ipv6 icmp vip, on page 1740](#)
- [ipv6 nd cache limit, on page 1741](#)
- [ipv6 nd dad attempts, on page 1742](#)
- [ipv6 nd hop-limit, on page 1743](#)
- [ipv6 nd limit-incomplete-adjacency, on page 1744](#)
- [ipv6 nd limit\\_threshold\\_am\\_queue, on page 1745](#)
- [ipv6 nd mac-extract, on page 1746](#)
- [ipv6 nd managed-config-flag, on page 1747](#)
- [ipv6 nd mtu, on page 1748](#)
- [ipv6 nd ns-interval, on page 1749](#)
- [ipv6 nd off-list timeout, on page 1750](#)
- [ipv6 nd other-config-flag, on page 1751](#)
- [ipv6 nd prefix, on page 1752](#)
- [ipv6 nd prefix default, on page 1753](#)
- [ipv6 nd process adjacency statistics, on page 1754](#)
- [ipv6 nd ra-interval, on page 1755](#)
- [ipv6 nd ra-lifetime, on page 1756](#)
- [ipv6 nd ra dns search-list, on page 1757](#)

- [ipv6 nd ra dns search-list suppress](#), on page 1758
- [ipv6 nd ra dns server](#), on page 1759
- [ipv6 nd ra dns server suppress](#), on page 1760
- [ipv6 nd reachable-time](#), on page 1761
- [ipv6 nd retrans-timer](#), on page 1762
- [ipv6 nd solicit-na](#), on page 1763
- [ipv6 nd suppress-ra](#), on page 1764
- [ipv6 nd synchronize](#), on page 1765
- [ipv6 policy route-map](#), on page 1766
- [ipv6 port traffic-filter](#), on page 1767
- [ipv6 prefix-list](#), on page 1768
- [ipv6 prefix-list](#), on page 1769
- [ipv6 prefix-list](#), on page 1770
- [ipv6 queue-packets-limit](#), on page 1771
- [ipv6 queue-packets](#), on page 1772
- [ipv6 repopulate internal context array](#), on page 1773
- [ipv6 route](#), on page 1774
- [ipv6 route static bfd](#), on page 1775
- [ipv6 router isis](#), on page 1776
- [ipv6 router ospfv3](#), on page 1777
- [ipv6 router ospfv3](#), on page 1778
- [ipv6 routing event-history](#), on page 1779
- [ipv6 routing multicast software-replication](#), on page 1780
- [ipv6 source-route](#), on page 1781
- [ipv6 switch-packets](#), on page 1782
- [ipv6 traffic-filter](#), on page 1783
- [ipv6 verify unicast source reachable-via](#), on page 1784
- [ipv6 vip](#), on page 1785
- [is-type](#), on page 1786
- [ishow cli find nodes](#), on page 1787
- [ishow cli modes](#), on page 1788
- [ishow cli nodes](#), on page 1789
- [ishow cli paths](#), on page 1790
- [ishow cli tags](#), on page 1791
- [ishow core](#), on page 1792
- [isis authentication-check](#), on page 1793
- [isis authentication-check level-1](#), on page 1794
- [isis authentication-check level-2](#), on page 1795
- [isis authentication-type](#), on page 1796
- [isis authentication-type](#), on page 1797
- [isis authentication key-chain](#), on page 1798
- [isis authentication key-chain](#), on page 1799
- [isis bfd](#), on page 1800
- [isis circuit-type](#), on page 1801
- [isis csnp-interval](#), on page 1802
- [isis event-history adjacency](#), on page 1803

- [isis event-history cli](#), on page 1804
- [isis event-history csnp](#), on page 1805
- [isis event-history dis](#), on page 1806
- [isis event-history events](#), on page 1807
- [isis event-history graceful](#), on page 1808
- [isis event-history ha](#), on page 1809
- [isis event-history iih](#), on page 1810
- [isis event-history lsp-flood](#), on page 1811
- [isis event-history lsp-gen](#), on page 1812
- [isis event-history mtr](#), on page 1813
- [isis event-history psnp](#), on page 1814
- [isis event-history redist](#), on page 1815
- [isis event-history spf-leaf](#), on page 1816
- [isis event-history spf-tree](#), on page 1817
- [isis event-history tlv](#), on page 1818
- [isis event-history urib](#), on page 1819
- [isis hello-interval](#), on page 1820
- [isis hello-interval](#), on page 1821
- [isis hello-multiplier](#), on page 1822
- [isis hello-multiplier](#), on page 1823
- [isis hello-padding](#), on page 1824
- [isis hello-padding always](#), on page 1825
- [isis ipv6 bfd](#), on page 1826
- [isis ipv6 metric](#), on page 1827
- [isis lsp-interval](#), on page 1828
- [isis mesh-group](#), on page 1829
- [isis metric](#), on page 1830
- [isis network point-to-point](#), on page 1831
- [isis passive-interface](#), on page 1832
- [isis priority](#), on page 1833
- [isis retransmit-interval](#), on page 1834
- [isis retransmit-throttle-interval](#), on page 1835
- [isis shutdown](#), on page 1836
- [isolate](#), on page 1837
- [isolate](#), on page 1838
- [isolate](#), on page 1839
- [isolate](#), on page 1840
- [isolate](#), on page 1841
- [isolate](#), on page 1842
- [itd](#), on page 1843
- [itd device-group](#), on page 1844
- [itd statistics](#), on page 1845

# icmp-echo

```
[no] icmp-echo { <hostname> | <ip-address> } { [ source-ip { <source-ip-hostname> | <source-ip-address> } ] | [ source-interface <if_index> ] }
```

## Syntax Description

no	(Optional)
<i>source-ip</i>	(Optional) source-interface
icmp-echo	ICMP Echo Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
source-interface	(Optional) Source Interface (ingress icmp packet interface)
<i>if_index</i>	(Optional) Source Interface
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed

## Command Mode

- /exec/configure/ip-sla



# icmpv6 cache disable

[no] icmpv6 cache disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
icmpv6	ICMPv6 Commands
cache	Disable cache
disable	Disable cache

## Command Mode

- /exec/configure

# icmpv6 cfs-queue

{ icmpv6 cfs-queue <size> } | { no icmpv6 cfs-queue }

## Syntax Description

no	Negate a command or set its defaults
icmpv6	ICMPv6 Commands
cfs-queue	cfs-queue
<i>size</i>	Size for adjacencies to be sent in CFSOE payload

## Command Mode

- /exec/configure

# icmpv6 library mts-queue

{ icmpv6 library mts-queue <size> } | { no icmpv6 library mts-queue }

## Syntax Description

no	Negate a command or set its defaults
icmpv6	ICMPv6 Commands
library	library data queue
mts-queue	mts-queue
<i>size</i>	Size for icmpv6 data sap qlimit

## Command Mode

- /exec/configure

# icmpv6 mts-queue

```
{ icmpv6 mts-queue <size> } | { no icmpv6 mts-queue }
```

## Syntax Description

no	Negate a command or set its defaults
icmpv6	ICMPv6 Commands
mts-queue	mts-queue
<i>size</i>	Size for icmpv6 data sap qlimit

## Command Mode

- /exec/configure

# import

import

## Syntax Description

import	import
--------	--------

## Command Mode

- /exec/configure

# import interface

import interface <if0>

## Syntax Description

import	import
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format

## Command Mode

- /exec/configure

# import map

[no] import map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
import	VRF import
map	Route-map based VRF import
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

# import running-config

import running-config [ exclude interface ethernet ]

## Syntax Description

import	import
running-config	running-config
exclude	(Optional) Exclude
interface	(Optional) Exclude all interfaces of this type
ethernet	(Optional) running-config excluding physical interfaces

## Command Mode

- /exec/configure



# import vrf default

import vrf default [ <prefix-limit> ] map <rmap-name> | no import vrf default [ <prefix-limit> ] map <rmap-name>

## Syntax Description

no	Negate a command or set its defaults
import	VRF import
vrf	Virtual Router Context
default	VRF name (default)
<i>prefix-limit</i>	(Optional) Maximum prefix limit
map	Route-map based VRF import
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

# in-order-guarantee

[no] in-order-guarantee

## Syntax Description

no	(Optional) Negate a command or set its defaults
in-order-guarantee	Enable IOD

## Command Mode

- /exec/configure/policy-map/type/uf/class

# include profile

[no] include profile { <all\_conf\_profile\_name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
include	Include a port-profile
profile	config-profile
<i>all_conf_profile_name</i>	Enter the name of the profile

## Command Mode

- /exec/configure

# include profile any

[no] include profile any

## Syntax Description

no	(Optional) Negate a command or set its defaults
include	Include a port-profile
profile	config-profile
any	dynamically include profile during apply

## Command Mode

- /exec/configure

# index

```
{ { index <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> } } | { no index <index> } }
```

## Syntax Description

no	Negate a command or set its defaults
index	Specify the next entry index to add, edit (or delete)
<i>index</i>	Previous index number
next-address	Specify the next address in the path
loose	(Optional) Target address is loose
strict	(Optional) Target address is strict
exclude-address	Exclude an address from subsequent partial path segments
<i>ipaddr</i>	Enter IP address (A.B.C.D)

## Command Mode

- /exec/configure/te/expl-path

# ingress-replication

ingress-replication <addr>

## Syntax Description

ingress-replication	Configure ingress replication
<i>addr</i>	Remote Peer IP Address

## Command Mode

- /exec/configure/if-nve/vni

# ingress-replication protocol bgp

[no] ingress-replication protocol bgp

## Syntax Description

no	(Optional) Negate a command or set its defaults
ingress-replication	Configure ingress replication

## Command Mode

- /exec/configure/if-nve/vni

# ingress-replication protocol static

[no] ingress-replication protocol static

## Syntax Description

no	(Optional) Negate a command or set its defaults
ingress-replication	Configure ingress replication

## Command Mode

- /exec/configure/if-nve/vni



# ingress interface

[no] ingress interface <interface-ref>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ingress	ITD ingress interface
interface	ITD ingress interface
<i>interface-ref</i>	

## Command Mode

- /exec/configure/itd /exec/configure/itd-inout

# inherit peer-policy

[no] inherit peer-policy <peer-policy-template-name> <policy-preference>

## Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer-policy	Inherit a peer-policy template
<i>peer-policy-template-name</i>	Template name
<i>policy-preference</i>	Sequence number

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

# inherit peer-policy

[no] inherit peer-policy <peer-policy-template-name> <policy-preference>

## Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer-policy	Inherit a peer-policy template
<i>peer-policy-template-name</i>	Template name
<i>policy-preference</i>	Sequence number

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

# inherit peer-session

[no] inherit peer-session <peer-session-template-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer-session	Inherit a peer-session template
<i>peer-session-template-name</i>	Template name

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# inherit peer

[no] inherit peer <peer-template-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer	Inherit a peer template
<i>peer-template-name</i>	Peer template name

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-vrf-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor /exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

# inherit port-profile

[no] inherit port-profile { <s0> | <s1> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a port-profile
port-profile	Inherit a port-profile
<i>s0</i>	Enter the name of the profile
<i>s1</i>	Enter the name of the profile

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-port-channel /exec/configure/if-port-channel-range /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m

# inject-map

[no] inject-map <inject-map-name> exist-map <exist-map-name> [ copy-attributes ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
inject-map	Routemap which specifies prefixes to inject
<i>inject-map-name</i>	Route-map name
exist-map	Routemap which specifies exist condition
<i>exist-map-name</i>	Route-map name
copy-attributes	(Optional) Copy attributes from aggregate

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

# install

install { all [ nxos <uri> | kickstart <uri1> | system <uri3> | parallel ] + [ no-reload | noswitchover ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] | force-all [ nxos <uri> | parallel ] + }

## Syntax Description

install	upgrade software
all	Upgrade the system
kickstart	(Optional) boot-variable name
<i>uri1</i>	(Optional) Enter image uri
system	(Optional) boot-variable name
<i>uri3</i>	(Optional) Enter image uri
no-reload	(Optional) Exit right before reload during install.
noswitchover	(Optional) Exit right before reload during install.
non-interruptive	(Optional) Non-Interruptive install.
no-save	(Optional) Config not saved. Manually save config before starting install all
bios	(Optional) BIOS Only
bios-force	(Optional) Forcefully upgrade bios.
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri
parallel	(Optional) Parallel upgrade linecards in the system
force-all	Force upgrade the system

## Command Mode

- /exec



# install activate

install activate <patch> + [ forced ]

## Syntax Description

install	Install package
activate	Activate package
<i>patch</i>	Package Name
forced	(Optional) non-interactive

## Command Mode

- /exec

# install add

```
install add { <package-name> | <uri1> } [ vrf <vrf-known-name> ] [ [ activate [ upgrade | downgrade ] ] [ forced ] ]
```

## Syntax Description

install	Install package
add	Add package
<i>package-name</i>	Package name
<i>uri1</i>	Enter package uri
vrf	(Optional) Display per-VRF information
<i>vrf-known-name</i>	(Optional) Known VRF name
activate	(Optional) Activate package
forced	(Optional) non-interactive
upgrade	(Optional) Upgrade package
downgrade	(Optional) Downgrade package

## Command Mode

- /exec

# install commit

install commit [ <patch> ]

## Syntax Description

install	Install package
commit	Commit software patch
<i>patch</i>	(Optional) Package Name

## Command Mode

- /exec

# install deactivate

install deactivate <patch> + [ forced ]

## Syntax Description

install	Install package
deactivate	Deactivate package
<i>patch</i>	Package Name
forced	(Optional) non-interactive

## Command Mode

- /exec

# install epld

```
install epld <uri1> { { module { all } [ force ] } }
```

## Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri1</i>	Local URI containing EPLD Image
module	Upgrade the modules
all	Install all the modules
force	(Optional) Force Install EPLD from EPLD image

## Command Mode

- /exec

# install epld

```
install epld <uri> { { module { all } { primary | golden } [ force ] } }
```

## Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri</i>	Local URI containing EPLD Image
module	Upgrade the modules
all	Install all the modules
primary	Upgrade primary fpga image
golden	Upgrade golden fpga image
force	(Optional) Force Install EPLD from EPLD image

## Command Mode

- /exec

# install epld

install epld <uri1> psu

## Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri1</i>	Local URI containing EPLD Image
psu	Upgrade PSU firmware

## Command Mode

- /exec

# install feature-set fex

[no] install feature-set fex

## Syntax Description

no	(Optional) Negate a command or set its defaults
install	install a feature-set
feature-set	install feature-set
fex	FEX

## Command Mode

- /exec/configure



# install feature-set mpls

[no] install feature-set mpls

## Syntax Description

no	(Optional) Negate a command or set its defaults
install	install a feature-set
feature-set	install feature-set
mpls	MPLS

## Command Mode

- /exec/configure

# install license

install license <uri0> [ <s0> ]

## Syntax Description

install	upgrade software
license	install license
<i>uri0</i>	Specify URL for license file
<i>s0</i>	(Optional) Specify a target name for the license file

## Command Mode

- /exec

# install module

```
install module <module> { bios [ [ system <uri0> ] [ forced2 ] ] | bios [ primary | golden ] [ forced ] | image [ { forced1 | system1 <uri1> } ] }
```

### Syntax Description

install	upgrade software
module	Upgrade for module
<i>module</i>	Enter module index
bios	Upgrade module bios
system	(Optional) System Image
<i>uri0</i>	(Optional) Local URI containing the system Image
forced2	(Optional) Force install bios
primary	(Optional) Upgrade the Primary bios
golden	(Optional) Upgrade the Golden bios
forced	(Optional) Force install bios
image	Upgrade module image
forced1	(Optional) Bypass SRG check
system1	(Optional) System Image
<i>uri1</i>	(Optional) Local URI containing the system Image

### Command Mode

- /exec

# install remove

install remove { <patch> | inactive } [ forced ]

## Syntax Description

install	Install package
remove	Remove package
<i>patch</i>	Package Name
inactive	All inactive except non-committed packages
forced	(Optional) Remove package

## Command Mode

- /exec

# instance-id

[no] instance-id <iid>

## Syntax Description

no	(Optional) Negate a command or set its defaults
instance-id	Configures Instance-ID for global data-mappings
<i>iid</i>	24-bit instance-ID value

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

# instance

[no] instance <plistinst>

## Syntax Description

no	(Optional) Negate a command or set its defaults
instance	Configure a parameter list instance
<i>plistinst</i>	Enter the name of the parameter list instance

## Command Mode

- /exec/configure/param-list

# instance

instance <instance-id> vlan <vlan-list>

## Syntax Description

instance	Map vlans to an MST instance
<i>instance-id</i>	MST instance id
vlan	Range of vlans to add to the instance mapping
<i>vlan-list</i>	vlan range ex: 1-65, 72, 200 - 300

## Command Mode

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

# instance

[no] instance <instance-id> [ vlan <vlan-list> ]

## Syntax Description

no	Negate a command or set its defaults
instance	Map vlans to an MST instance
<i>instance-id</i>	MST instance id
vlan	(Optional) Range of vlans to add to the instance mapping
<i>vlan-list</i>	(Optional) vlan range ex: 1-65, 72, 200 - 300

## Command Mode

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



# interface-vlan

interface-vlan <vlan-id> reset fsm

## Syntax Description

interface-vlan	Vlan Interface
<i>vlan-id</i>	VLAN Id
reset	Reset SVI Credits
fsm	SVI FSM

## Command Mode

- /exec/configure

# interface-vlan reset credits

interface-vlan reset credits [ <count> ]

## Syntax Description

interface-vlan	Vlan Interface
reset	Reset SVI Credits
credits	SVI Credits
<i>count</i>	(Optional) Set SVI Credit Count

## Command Mode

- /exec/configure

# interface

[no] interface <intf>

## Syntax Description

no	(Optional) Negate a command or set its defaults
interface	interface
<i>intf</i>	interfaces to allocate for ace service

## Command Mode

- /exec/configure/agni-ace

# interface

[no] interface <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure

# interface

[no] interface <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure

# interface

[no] interface <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure

# interface

[no] interface <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure

# interface

[no] interface <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure



# interface

interface <interface>

## Syntax Description

interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure

# interface

[no] interface <interface>

## Syntax Description

no	Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure

# interface

[no] interface <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

## Command Mode

- /exec/configure

# interface down delay

[no] interface down delay |

## Syntax Description

<i>down</i>	delay
no	Negate a command or set its defaults
interface	Add tunnel interface config
delay	Tunnel interface down delay config

## Command Mode

- /exec/configure/if-te

# ip

ip [ <ipaddress> [ secondary ] ] | no ip [ <ipaddress> [ secondary ] ]

## Syntax Description

no	Negate a command or set its defaults
ip	Enable HSRP IPv4 and set the virtual IP address
<i>ipaddress</i>	(Optional) Virtual IP address
secondary	(Optional) Make this IP address a secondary virtual IP address

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4

## ip

[no] { ip | ipv6 } eigrp [ <eigrp-ptag> ] event-history { errors | msgs }

**Syntax Description**

no	(Optional) Negate a command or set its defaults
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Event History of EIGRP
errors	Show error log of EIGRP
msgs	Show message log of EIGRP

**Command Mode**

- /exec/configure

# ip

[no] { ip | ipv6 } eigrp [ <eigrp-ptag> ] event-history { fsm | packet | rib | cli } size { <size\_in\_text> | <size\_in\_Kbytes> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Event History of EIGRP
fsm	FSM log of EIGRP
packet	Packet log of EIGRP
rib	RIB log of EIGRP
cli	EIGRP CLI related events
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

## Command Mode

- /exec/configure

# ip

[no] { ip | ipv6 } router eigrp <eigrp-ptag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
router	Enable a routing process
eigrp	Configure an EIGRP routing process on interface
<i>eigrp-ptag</i>	Process tag

## Command Mode

- /exec/configure/if-igp



# ip

```
[no] { ip | ipv6 } authentication { { key-chain eigrp <eigrp-ptag> <chain> } | { mode eigrp <eigrp-ptag> md5 } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
authentication	Configures EIGRP authentication subcommands
key-chain	key-chain
<i>eigrp-ptag</i>	Process tag
<i>chain</i>	name of key-chain
mode	mode
eigrp	EIGRP interface configuration commands
md5	Keyed message digest
<i>eigrp-ptag</i>	

## Command Mode

- /exec/configure/if-igp

# ip

[no] { ip | ipv6 } next-hop-self eigrp <eigrp-ptag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
next-hop-self	Configures IP-EIGRP next-hop-self
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag

## Command Mode

- /exec/configure/if-igp

# ip

```
{ { { ip | ipv6 } hold-time eigrp <eigrp-ptag> <holdtime> } | { no { ip | ipv6 } hold-time eigrp <eigrp-ptag> [ <holdtime> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
hold-time	Configures IP-EIGRP hold time
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>holdtime</i>	Seconds before neighbor is considered down
<i>eigrp-ptag</i>	

## Command Mode

- /exec/configure/if-igp

## ip

```
{ { { ip | ipv6 } hello-interval eigrp <eigrp-ptag> <hello-interval> } | { no { ip | ipv6 } hello-interval eigrp
<eigrp-ptag> [ <hello-interval> ] } }
```

**Syntax Description**

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
hello-interval	Configures IP-EIGRP hello interval
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>hello-interval</i>	Seconds between hello transmissions
<i>eigrp-ptag</i>	

**Command Mode**

- /exec/configure/if-igp

# ip

```
{ { { ip | ipv6 } bandwidth-percent eigrp <eigrp-ptag> <percent> } | { no { ip | ipv6 } bandwidth-percent eigrp <eigrp-ptag> [ <percent> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
bandwidth-percent	Configures IP-EIGRP bandwidth limit
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>percent</i>	Maximum bandwidth percentage that EIGRP may use
<i>eigrp-ptag</i>	

## Command Mode

- /exec/configure/if-igp

# ip

[no] { ip | ipv6 } split-horizon eigrp <eigrp-ptag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
split-horizon	Configures IP-EIGRP split-horizon on interface
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag

## Command Mode

- /exec/configure/if-igp

## ip

```
[no] { ip | ipv6 } distribute-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out }
}
```

**Syntax Description**

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
distribute-list	Filter networks in routing updates
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
route-map	Use a route-map for route filtering
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for route filtering
<i>list</i>	Reference to prefix-list name
in	Filter incoming routing updates
out	Filter outgoing routing updates

**Command Mode**

- /exec/configure/if-igp

# ip

[no] { ip | ipv6 } offset-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out } <offset>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
offset-list	Add or subtract offset from EIGRP metrics
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
route-map	Use a route-map for offset-list selection
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for offset-list selection
<i>list</i>	Reference to prefix-list name
in	Perform offset on incoming updates
out	Perform offset on outgoing updates
<i>offset</i>	Offset

## Command Mode

- /exec/configure/if-igp



# ip

[ default | no ] { ip | ipv6 } passive-interface eigrp <eigrp-ptag>

## Syntax Description

default	(Optional) Undo a command
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
passive-interface	Suppress routing updates on an interface
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag

## Command Mode

- /exec/configure/if-igp

# ip

```
{ { { ip | ipv6 } bandwidth eigrp <eigrp-ptag> <bw> } | { no { ip | ipv6 } bandwidth eigrp <eigrp-ptag> [ <bw> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
bandwidth	Set bandwidth for interface used in EIGRP metric calculation
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>bw</i>	Bandwidth in kilobits
<i>eigrp-ptag</i>	

## Command Mode

- /exec/configure/if-igp

# ip

```
{ { { ip | ipv6 } delay eigrp <eigrp-ptag> <delay> [ picoseconds ] } | { no { ip | ipv6 } delay eigrp <eigrp-ptag> [ <delay> ] [ picoseconds ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
delay	Set delay for interface used in EIGRP metric calculation
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>delay</i>	Throughput delay
picoseconds	(Optional) Delay units in picoseconds
<i>eigrp-ptag</i>	

## Command Mode

- /exec/configure/if-igp

# ip

{ { { ip | ipv6 } mtu eigrp <eigrp-ptag> <mtu> } | { no { ip | ipv6 } mtu eigrp <eigrp-ptag> [ <mtu> ] } }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
mtu	Set Max Packet Size to be used by EIGRP
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>mtu</i>	Interface MTU
<i>eigrp-ptag</i>	

### Command Mode

- /exec/configure/if-igp

# ip

[no] { ip | ipv6 } eigrp <eigrp-ptag> shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
shutdown	Shutdown EIGRP on this interface

## Command Mode

- /exec/configure/if-igp

## ip

[no] { ip | ipv6 } eigrp [ <eigrp-ptag> ] internal syslog rate-limit

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP events
ipv6	IPv6 events
eigrp	Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional) Process tag
internal	Commands for internal use
syslog	control syslog message
rate-limit	rate-limiting

### Command Mode

- /exec

# ip

[no] { ip | ipv6 } lisp itr

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
itr	Configures LISP Ingress Tunnel Router (ITR) parameters

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp etr

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
etr	Configures LISP Egress Tunnel Router (ETR) parameters

## Command Mode

- /exec/configure /exec/configure/vrf



# ip

[no] { ip | ipv6 } lisp itr-etr

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
itr-etr	Configures both LISP ITR and ETR functionality

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

{ [ no ] { ip | ipv6 } lisp map-resolver }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-resolver	Configures LISP Map Resolver functionality

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

{ [ no ] { ip | ipv6 } lisp map-server }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-server	Configures LISP Map Server functionality

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp use-petr { <petr> | <petr6> } priority <priority> weight <weight>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
use-petr	Encapsulate to Proxy ETR for matching forward-native entry
<i>petr</i>	IPv4 locator address of PETR
priority	Configures which Locators from a set are preferred
<i>priority</i>	Lower priority Locator takes preference
weight	Traffic load-spreading among Locators
<i>weight</i>	Specified in a percentage from 0 to 100

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp null0-is-alt-miss

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
null0-is-alt-miss	Consider a ALT route with null0 next-hop as a lookup miss

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp locator reachability { exclude-default | minimum-mask-length <minmask> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ip	Configure IP features
ipv6	Configure IPv6 features
locator	Configure locator parameters
reachability	Configure reachability parameters
exclude-default	Exclude default route to reach remote locators
minimum-mask-length	Exclude routes coarser than the given mask length
<i>minmask</i>	Minimum mask length for the routes to locators

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

{ [ no ] { ip | ipv6 } lisp map-server try-map-cache }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-server	Configures LISP Map Server functionality
try-map-cache	Forward Map-Request to RLOCs from map-cache when site configuration does not exist

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp hardware-forwarding

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
hardware-forwarding	Enable/disable Nexus 7K hardware forwarding

## Command Mode

- /exec/configure /exec/configure/vrf



# ip

[no] { ip | ipv6 } lisp use-bgp-locators [ route-map <rmap-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
use-bgp-locators	Use next-hops from BGP as locators for map-cache entries
route-map	(Optional) Route-map applied to on-demand routes.
<i>rmap-name</i>	(Optional) Route-map name

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp map-cache-limit <limit> [ reserve-list <prefix-list> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
map-cache-limit	Configures maximum size of map-cache
<i>limit</i>	Maximum number of map-cache entries
reserve-list	(Optional) EID-prefixes guaranteed to be stored in map-cache
<i>prefix-list</i>	(Optional) Reference to prefix-list name

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

{ [ no ] { ip | ipv6 } lisp itr map-resolver { <mr> | <mr6> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
itr	Configures LISP Ingress Tunnel Router (ITR) parameters
map-resolver	To interact with Map-Resolver
<i>mr</i>	Address of IPv4 map-server

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

```
{ [ no ] { ip | ipv6 } lisp short-map-cache-ttl }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
short-map-cache-ttl	Sets both positive and negative TTL in Map-Reply to 1 minute

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp disable-spoof-alert

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP global configuration commands
disable-spoof-alert	Disable spoof-alert checking for Map-Replies

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] { ip | ipv6 } lisp nat-traversal

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP interface configuration commands
nat-traversal	Send Echo messages to Map-Server to get global locator

## Command Mode

- /exec/configure/if-igp

# ip

```
{ [ no ] { ip | ipv6 } lisp source-locator <interface> [ secondary ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
lisp	LISP interface configuration commands
source-locator	Select source locator when destination locator uses this interface
<i>interface</i>	Use primary address from interface as source locator
secondary	(Optional) Use secondary address on interface as source locator

## Command Mode

- /exec/configure/if-igp

# ip

ip { <ipv6address> | autoconfig } | no ip [ { <ipv6address> | autoconfig } ]

## Syntax Description

no	Negate a command or set its defaults
ip	Enable HSRP IPv6 and set the virtual IP address
autoconfig	Obtain address using autoconfiguration

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv6



# ip

```
{ { { ip | ipv6 } amt tunnel-limit <limit> } | { no { ip | ipv6 } amt tunnel-limit [ <limit> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
tunnel-limit	Configure the maximum tunnels allowed
<i>limit</i>	

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

{ [ no ] { ip | ipv6 } amt state-limit <limit> [ gateway <route-map> ] }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
state-limit	Configure the maximum number of (S,G) entries allowed
<i>limit</i>	
gateway	(Optional) Configure state limit per gateway
<i>route-map</i>	(Optional) Route-map describing gateway or sets of gateways

## Command Mode

- /exec/configure /exec/configure/vrf

# ip

{ [ no ] { ip | ipv6 } amt join-policy <jroute-map> [ gateway <groute-map> ] }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
join-policy	Configures what (S,G) are allowed to be joined
<i>jroute-map</i>	Route-map describing (S,G) entries allowed
gateway	(Optional) Configure join-policy per gateway
<i>groute-map</i>	(Optional) Route-map describing gateway or sets of gateways

## Command Mode

- /exec/configure /exec/configure/vrf

## ip

[no] { ip | ipv6 } amt qqic <qqic-value>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
qqic	Configure Querier's Query Interval Code
<i>qqic-value</i>	

### Command Mode

- /exec/configure /exec/configure/vrf

# ip

[no] ip [ <ipaddress> [ secondary ] ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Set Virtual IP address
<i>ipaddress</i>	(Optional) Virtual IP address
secondary	(Optional) Make this a secondary IP address

## Command Mode

- /exec/configure/if-eth-any/glbp

## ip access-class

[no] ip access-class <name> <inout>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
access-class	Specify IPv4 access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

### Command Mode

- /exec/configure/line

# ip access-group

[no] ip access-group <name> <inout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
access-group	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

## Command Mode

- /exec/configure/if-set-acl-l3

## ip access-list

[no] ip access-list <name> [ client <clienttype> <clientID> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

### Command Mode

- /exec/configure



# ip access-list match-local-traffic

[no] ip access-list match-local-traffic | ip access-list match-local-traffic

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
access-list	Configure access list
match-local-traffic	Enable access-list matching for locally generated traffic

## Command Mode

- /exec/configure

# ip adjacency

[no] ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { \* | <ip-addr> } | \* } peer-gmac

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
<i>ip-addr</i>	IPV4 source address
*	for all adjacencies in this context
peer-gmac	Set/clear the peer-gmac bit

## Command Mode

- /exec/configure

# ip adjacency

[no] ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { \* | <ip-addr> } | \* } remote-adj

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
<i>ip-addr</i>	IPV4 source address
*	for all adjacencies in this context
remote-adj	Set/clear the remote-adj bit

## Command Mode

- /exec/configure

## ip adjacency

ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { \* | <ip-addr> } | \* } forcedownload

### Syntax Description

ip	Configure IP features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
<i>ip-addr</i>	IPV4 source address
*	for all adjacencies in this context
forcedownload	Create consistency in UFDM

### Command Mode

- /exec/configure

# ip adjacency cache disable

[no] ip adjacency cache disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
cache	Disable cache
disable	Disable cache

## Command Mode

- /exec/configure

## ip adjacency l2fm-reg

```
[no] ip adjacency l2fm-reg { [ vrf <vrf-known-name> ] | <interface> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
l2fm-reg	Register with l2fm
vrf	(Optional) vrf name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Interface name

### Command Mode

- /exec/configure

# ip adjacency notify interval

{ ip adjacency notify interval <time> } | { no ip adjacency notify interval }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
notify	Notify URIB/FIB
interval	Time interval
<i>time</i>	value in milli seconds

## Command Mode

- /exec/configure

## ip adjacency route distance

{ ip adjacency route distance <pref> } | { no ip adjacency route distance }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
route	route
distance	admin-distance
<i>pref</i>	preference

### Command Mode

- /exec/configure



# ip adjacency statistics collect

{ ip adjacency statistics collect } | { no ip adjacency statistics collect }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
statistics	Statistics
collect	Collection

## Command Mode

- /exec/configure

# ip adjacency statistics interval

{ ip adjacency statistics interval <time> } | { no ip adjacency statistics interval }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
statistics	Statistics
interval	Interval
<i>time</i>	Timer timeout value

## Command Mode

- /exec/configure

# ip allow address-overlap

[no] ip allow address-overlap

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
allow	Allow interface IP address overlap
address-overlap	Allow interface IP address overlap

## Command Mode

- /exec/configure

# ip allow port

{ ip allow port { <allow\_ports> | none } | no ip allow port [ <allow\_ports> | none ] }

## Syntax Description

no	Negate a command or set its defaults
ip	IP protocol
port	Well known UDP/TCP ports
allow	Restrict the set of allowed ports
<i>allow_ports</i>	Comma separated list of ports or ranges
none	Disallow binding to any ports

## Command Mode

- /exec/configure/virt-serv

# ip amt anycast-gateway-address

{ { ip amt anycast-gateway-address <address> } | { no ip amt anycast-gateway-address [ <address> ] } } | { { ipv6 amt anycast-gateway-address <address6> } | { no ipv6 amt anycast-gateway-address [ <address6> ] } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
anycast-gateway-address	Configure anycast address for AMT gateway
<i>address</i>	

## Command Mode

- /exec/configure /exec/configure/vrf

# ip amt anycast-relay-prefix

{ { ip amt anycast-relay-prefix <prefix> } | { no ip amt anycast-relay-prefix [ <prefix> ] } } | { ipv6 amt anycast-relay-prefix <prefix6> } | { no ipv6 amt anycast-relay-prefix [ <prefix6> ] } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
anycast-relay-prefix	Configure anycast prefix for AMT relay
<i>prefix</i>	

## Command Mode

- /exec/configure /exec/configure/vrf

# ip amt gateway

[no] ip amt gateway

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
amt	AMT global configuration commands
gateway	Configures IPv4 AMT gateway functionality

## Command Mode

- /exec/configure /exec/configure/vrf

## ip amt gateway send-discovery

[no] ip amt gateway send-discovery

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
amt	AMT global configuration commands
gateway	Configures IP AMT gateway functionality
send-discovery	Trigger a Discovery message to the Anycast address

### Command Mode

- /exec/configure /exec/configure/vrf



# ip amt relay-advertisement-address

```
{ { ip amt relay-advertisement-address <address> } | { no ip amt relay-advertisement-address [ <address> ] } | { ipv6 amt relay-advertisement-address <address6> } | { no ipv6 amt relay-advertisement-address [ <address6> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
relay-advertisement-address	Address to use by AMT relay
<i>address</i>	

## Command Mode

- /exec/configure /exec/configure/vrf

# ip amt relay

[no] ip amt relay

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
amt	AMT global configuration commands
relay	Configures IPv4 AMT relay functionality

## Command Mode

- /exec/configure /exec/configure/vrf

# ip arp

```
{ ip arp <ip-address> <mac-address> | no ip arp <ip-address> [ <mac-address> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
<i>ip-address</i>	IP address
<i>mac-address</i>	MAC address

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

# ip arp broadcast mac-mismatch

{ ip arp broadcast mac-mismatch } | { no ip arp broadcast mac-mismatch }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
broadcast	Enable/disable arp broadcast
mac-mismatch	when there is a smac mismatch

## Command Mode

- /exec/configure

# ip arp cache disable

[no] ip arp cache disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
cache	Disable cache
disable	Disable cache

## Command Mode

- /exec/configure

## ip arp cache limit

```
{ { ip arp cache limit <max> } | { no ip arp cache limit } } [ syslog <rate> ]
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
cache	ARP cache parameters
limit	Limit size of ARP adjacencies cache
<i>max</i>	Maximum number of ARP entries
syslog	(Optional) Syslog messages
<i>rate</i>	(Optional) Syslogs per second

### Command Mode

- /exec/configure

# ip arp cfs-queue

{ ip arp cfs-queue <size> } | { no ip arp cfs-queue }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	ARP
cfs-queue	cfs-queue
<i>size</i>	Size for adjacencies to be sent in CFSoSE payload

## Command Mode

- /exec/configure

# ip arp garp-storm

{ ip arp garp-storm } | { no ip arp garp-storm }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
garp-storm	Configure timer values for garp-storm

## Command Mode

- /exec/configure



# ip arp garp-storm timer

{ ip arp garp-storm timer <garp-timer> count <garp-count> } | { no ip arp garp-storm timer <garp-timer> count <garp-count> }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
garp-storm	Configure timer values for garp-storm
timer	Set the garp-storm timer value in seconds
<i>garp-timer</i>	Timer value in seconds
count	Set the garp count value
<i>garp-count</i>	Timer value in seconds

## Command Mode

- /exec/configure

# ip arp gratuitous hsrp duplicate

{ ip arp gratuitous hsrp duplicate | no ip arp gratuitous hsrp duplicate }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
gratuitous	gratuitous
hsrp	hsrp
duplicate	duplicate address detection

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

# ip arp gratuitous hsrp duplicate

{ ip arp gratuitous hsrp duplicate | no ip arp gratuitous hsrp duplicate }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
gratuitous	gratuitous
hsrp	hsrp
duplicate	duplicate address detection

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

## ip arp gratuitous request

{ ip arp gratuitous request | no ip arp gratuitous request }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
gratuitous	gratuitous
request	Enable/Disable sending grat. arp request when duplicate address detected

### Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan

# ip arp gratuitous update

{ ip arp gratuitous update | no ip arp gratuitous update }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
gratuitous	gratuitous
update	Enable/Disable arp cache updates for gratuitous arp

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

## ip arp inspection log-buffer

[no] ip arp inspection log-buffer { entries <number1> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
log-buffer	Log Buffer Configuration
entries	Number of entries for log buffer
<i>number1</i>	Number of entries for log buffer

### Command Mode

- /exec/configure

# ip arp inspection trust

[no] ip arp inspection trust

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
trust	Configure trust state

## Command Mode

- /exec/configure/if-switching

## ip arp inspection validate

[no] ip arp inspection validate { src-mac | dst-mac | ip1 } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
validate	Validate addresses
src-mac	Validate source MAC address
dst-mac	Validate destination MAC address
ip1	Validate IP addresses

### Command Mode

- /exec/configure



# ip arp inspection vlan

[no] ip arp inspection vlan <vlan-id> [ logging { dhcp-bindings { permit | all | inone } } ]

## Syntax Description

<i>logging</i>	(Optional) dhcp-bindings
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
vlan	Enable/Disable ARP Inspection on vlans
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
dhcp-bindings	(Optional) Logging of packet that match DHCP bindings
permit	(Optional) Log DHCP Binding Permitted packets
all	(Optional) Log all packets that match DHCP bindings
inone	(Optional) Do not log packets

## Command Mode

- /exec/configure

## ip arp mts-queue

{ ip arp mts-queue <size> } | { no ip arp mts-queue }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	ARP
mts-queue	mts-queue
<i>size</i>	Size for arp data sap qlimit

### Command Mode

- /exec/configure

# ip arp off-list timeout

{ ip arp off-list timeout <time> } | { no ip arp off-list timeout }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
off-list	off-list
timeout	Expire time
<i>time</i>	Expire time value in seconds

## Command Mode

- /exec/configure

# ip arp rarp fabric-forwarding

[no] ip arp rarp fabric-forwarding

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
rarp	Enable/Disable forwarding of RARP messages on fabric
fabric-forwarding	Forward RARP requests to the fabric

## Command Mode

- /exec/configure

# ip arp rarp fabric-forwarding rate-limit

[no] ip arp rarp fabric-forwarding rate-limit <rate>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
rarp	Enable/Disable forwarding of RARP messages on fabric
fabric-forwarding	Forward RARP requests to the fabric
rate-limit	Forwarding rate of the RARP frames
<i>rate</i>	RARP frames-per-second

## Command Mode

- /exec/configure

# ip arp request

ip arp request <ip-address>

## Syntax Description

ip	Configure IP features
arp	Configure ARP parameters
request	Trigger ARP request
<i>ip-address</i>	IP address

## Command Mode

- /exec/configure/if-igp

# ip arp synchronize

[no] ip arp synchronize

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	ARP
synchronize	CFS synchronize

## Command Mode

- /exec/configure/vpc-domain

# ip arp synchronize

ip arp synchronize [ pull | push ]

## Syntax Description

ip	Configure IP features
arp	ARP
synchronize	CFS synchronize
pull	(Optional) Initiate CFS pull request
push	(Optional) Initiate CFS push message

## Command Mode

- /exec



# ip arp timeout

{ ip arp timeout <time-out> } | { no ip arp timeout }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
timeout	ARP timeout
<i>time-out</i>	Time-out value in seconds

## Command Mode

- /exec/configure

# ip arp timeout

```
{ ip arp timeout <time-out> } | { no ip arp timeout }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
timeout	ARP timeout
<i>time-out</i>	Time-out value in seconds

## Command Mode

- /exec/configure/config-mgmt /exec/configure/if-igp

# ip as-path access-list

```
{ ip as-path access-list <aspl-name> [ timeout <sec> ] { { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
as-path	BGP autonomous system path filter
access-list	Specify an access list name
<i>aspl-name</i>	
<i>aspl-name</i>	
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify packets to reject
permit	Specify packets to forward
<i>line</i>	A

### Command Mode

- /exec/configure

# ip as-path access-list

```
{ ip as-path access-list <aspl-name> seq <seq> [ timeout <sec> ] { { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> seq <seq> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
as-path	BGP autonomous system path filter
access-list	Specify an access list name
<i>aspl-name</i>	
<i>aspl-name</i>	
seq	Sequence number of an entry
<i>seq</i>	Sequence number
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify packets to reject
permit	Specify packets to forward
<i>line</i>	A

## Command Mode

- /exec/configure

# ip auto-discard

[no] ip auto-discard

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
auto-discard	Auto 0.0.0.0/0 discard route

## Command Mode

- /exec/configure /exec/configure/vrf

# ip cache disable

[no] ip cache disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
cache	Disable cache
disable	Disable cache

## Command Mode

- /exec/configure

# ip community-list expanded

```
{ ip community-list expanded <name> [ timeout <sec> ] { deny | permit } <line> } | { no ip community-list
expanded <name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
expanded	Add an expanded community list entry
<i>name</i>	Name of expanded community list
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify community to reject
permit	Specify community to accept
<i>line</i>	Regular-expression(must

## Command Mode

- /exec/configure

## ip community-list standard

```
{ ip community-list standard <name> { permit | deny } { internet | local-AS | no-advertise | no-export | <aann>
| <number> | <hex_num> } + } | { no ip community-list standard <name> [ permit | deny ] [ { internet | local-AS
| no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
standard	Add a standard Community list entry
<i>name</i>	Standard community list name
permit	Specify community to accept
deny	Specify community to reject
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
<i>aann</i>	Community number aa:nn format
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>internet</i>	(Optional) local-AS

### Command Mode

- /exec/configure



# ip community-list standard

```
{ ip community-list standard <name> seq <seq> { permit | deny } { internet | local-AS | no-advertise | no-export
| <aann> | <number> | <hex_num> } + } | { no ip community-list standard <name> seq <seq> [ permit | deny
] [ { internet | local-AS | no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
standard	Add a standard Community list entry
<i>name</i>	Standard community list name
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify community to accept
deny	Specify community to reject
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
<i>aann</i>	Community number aa:nn format
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>internet</i>	(Optional) local-AS

## Command Mode

- /exec/configure

## ip default-gateway

[no] ip default-gateway <ip-addr> [ vrf { <vrf-name> | <vrf-known-name> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
default-gateway	Configure default gateway
<i>ip-addr</i>	IP prefix in format i.i.i.i
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/configure /exec/configure/config-mgmt /exec/configure/vrf /exec/configure/if-gre-tunnel

# ip dhcp packet strict-validation

[no] ip dhcp packet strict-validation

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
packet	DHCP packet
strict-validation	DHCP packet strict validation

## Command Mode

- /exec/configure/

# ip dhcp relay

[no] ip dhcp relay

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Enable DHCP relay agent

## Command Mode

- /exec/configure

# ip dhcp relay address

[no] ip dhcp relay address [ <ip-addr-val> [ use-vrf <vrf-name> ] ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure relay agent
address	Configure DHCP server to refer to
<i>ip-addr-val</i>	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
<i>vrf-name</i>	(Optional) VRF name

## Command Mode

- /exec/configure/if-igp

# ip dhcp relay information option

[no] ip dhcp relay information option

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
option	Insert relay information in BOOTREQUEST

## Command Mode

- /exec/configure

# ip dhcp relay information option trust

[no] ip dhcp relay information option trust

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
option	Relay agent option
trust	Enable relay trust functionality on the system

## Command Mode

- /exec/configure

## ip dhcp relay information option vpn

[no] ip dhcp relay information option vpn

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
option	Insert relay information in BOOTREQUEST
vpn	Enable relay support across VRFs

### Command Mode

- /exec/configure



# ip dhcp relay information trust-all

[no] ip dhcp relay information trust-all

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
trust-all	Enable relay trust on all the interfaces

## Command Mode

- /exec/configure

## ip dhcp relay information trusted

[no] ip dhcp relay information trusted

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
trusted	Enable relay trust on this interface

### Command Mode

- /exec/configure/if-igp

# ip dhcp relay source-interface

ip dhcp relay source-interface <interface-name>

## Syntax Description

ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure relay agent
source-interface	Configure source interface for DHCP relay
<i>interface-name</i>	Source interface

## Command Mode

- /exec/configure /exec/configure/if-igp

# ip dhcp relay source-interface

[no] ip dhcp relay source-interface

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure relay agent
source-interface	Configure source interface for DHCP relay

## Command Mode

- /exec/configure /exec/configure/if-igp

# ip dhcp relay sub-option circuit-id format-type string

[no] ip dhcp relay sub-option circuit-id format-type string [ format <format-string> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
sub-option	Relay agent suboption
circuit-id	Relay agent circuit-id suboption
format-type	Specify suboption format type
string	Use string format for suboption
format	(Optional) Specify format string
<i>format-string</i>	(Optional) Format string

## Command Mode

- /exec/configure

# ip dhcp relay sub-option type cisco

[no] ip dhcp relay sub-option type cisco

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
sub-option	Relay agent suboption
type	Relay agent suboption type
cisco	Use Cisco proprietary suboptions

## Command Mode

- /exec/configure

# ip dhcp relay subnet-broadcast

[no] ip dhcp relay subnet-broadcast

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure DHCP relay
subnet-broadcast	Configure DHCP relay subnet-broadcast on interface

## Command Mode

- /exec/configure/if-igp

# ip dhcp smart-relay

[no] ip dhcp smart-relay

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
smart-relay	Configure DHCP smart relay on interface

## Command Mode

- /exec/configure/if-igp



# ip dhcp smart-relay global

[no] ip dhcp smart-relay global

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
smart-relay	Configure DHCP smart relay
global	Configure DHCP smart relay globally

## Command Mode

- /exec/configure

# ip dhcp snooping

[no] ip dhcp snooping

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping

## Command Mode

- /exec/configure/

# ip dhcp snooping information option

[no] ip dhcp snooping information option

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
information	DHCP Snooping information
option	DHCP Snooping information option

## Command Mode

- /exec/configure/

## ip dhcp snooping ipsg-excluded vlan

[no] ip dhcp snooping ipsg-excluded vlan <vlan-id10>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
ipsg-excluded	exclude ipsg
vlan	DHCP Snooping ipsg excluded vlan
<i>vlan-id10</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

### Command Mode

- /exec/configure

# ip dhcp snooping trust

[no] ip dhcp snooping trust

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
trust	DHCP Snooping trust config

## Command Mode

- /exec/configure/if-switching

# ip dhcp snooping verify mac-address

[no] ip dhcp snooping verify mac-address

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
verify	DHCP snooping verify
mac-address	DHCP snooping verify mac-address

## Command Mode

- /exec/configure/

# ip dhcp snooping vlan

[no] ip dhcp snooping vlan <vlan-id10>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
vlan	DHCP Snooping vlan
<i>vlan-id10</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

## Command Mode

- /exec/configure

# ip directed-broadcast

[no] ip directed-broadcast [ <acl-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
directed-broadcast	IP directed-broadcast
<i>acl-name</i>	(Optional) ACL policy name

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config



# ip dns source-interface

[no] ip dns source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dns	Configure dns client
source-interface	Configure source interface feature for domain-lookup
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec/configure

# ip domain-list

[no] ip domain-list { <s0> | <s1> [ use-vrf { <vrf-name> | <vrf-known-name> } ] }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
domain-list	Add additional domain names
<i>s0</i>	Enter a domain
<i>s1</i>	Enter a domain
use-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/configure /exec/configure/vrf

# ip domain-lookup

[no] ip domain-lookup

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
domain-lookup	Enable/Disable DNS

## Command Mode

- /exec/configure

# ip domain-name

[no] ip domain-name { <s0> | <s1> [ use-vrf { <vrf-name> | <vrf-known-name> } ] }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
domain-name	Specify default domain name
s0	Enter the default domain
s1	Enter the default domain
use-vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

## Command Mode

- /exec/configure /exec/configure/vrf

# ip eigrp

[no] ip eigrp <eigrp-tag> bfd [ disable ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
eigrp	EIGRP interface configuration commands
<i>eigrp-tag</i>	Process tag
bfd	Enable BFD on this interface
disable	(Optional) Disable BFD on this interface

## Command Mode

- /exec/configure/if-igp

# ip eigrp

[no] ip eigrp [ <eigrp-ptag> ] event-history bfd size { <size\_in\_text> | <size\_in\_Kbytes> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Clear IP commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Event History of EIGRP
bfd	Show bfd log of EIGRP
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

## Command Mode

- /exec/configure

# ip extcommunity-list expanded

```
{ ip extcommunity-list expanded <name> { deny | permit } <line> } | { no ip extcommunity-list expanded <name> [ { deny | permit } <line> ] }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
extcommunity-list	Add a extcommunity list entry
expanded	Add an expanded extcommunity list entry
<i>name</i>	Name of expanded extcommunity list
deny	Specify extcommunity to reject
permit	Specify extcommunity to accept
<i>line</i>	Regular-expression(must

### Command Mode

- /exec/configure

# ip extcommunity-list standard

```
{ ip extcommunity-list standard <name> { permit | deny } { { 4byteas-generic { transitive
<ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } | { rt { <ext-comm-rt-aa2nn4> |
<ext-comm-rt-aa4nn2> } } | { soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } } + | { no ip
extcommunity-list standard <name> [ permit | deny ] [ { 4byteas-generic { transitive <ext-comm-gen-trans>
| non-transitive <ext-comm-gen-nontrans> } } | { rt { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } |
{ soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } ] + } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
extcommunity-list	Add a extcommunity list entry
standard	Add a standard Extcommunity list entry
<i>name</i>	Standard extcommunity list name
permit	Specify extcommunity to accept
deny	Specify extcommunity to reject
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
rt	Router-Target
soo	Site-Of-Origin
<i>ext-comm-gen-trans</i>	
<i>ext-comm-gen-nontrans</i>	
<i>ext-comm-rt-aa2nn4</i>	
<i>ext-comm-rt-aa4nn2</i>	
<i>ext-comm-soo-aa2nn4</i>	
<i>ext-comm-soo-aa4nn2</i>	

## Command Mode

- /exec/configure



# ip flow monitor

[no] ip flow monitor <monitorname> { input | output } [ sampler <samplername> ]

## Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/if-routing /exec/configure/if-mgmt-ether /exec/configure/if-any-tunnel /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

## ip flow monitor

```
[no] ip flow monitor <monitorname> { input | output } [ sampler <samplername> ]
```

### Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

### Command Mode

- /exec/configure/vlan

# ip flow monitor

[no] ip flow monitor <monitorname> input [ sampler <samplername> ]

## Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/vlan-config

# ip flow monitor

ip flow monitor <monitorname> output [ sampler <samplername> ]

## Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/vlan-config

# ip flow monitor

[no] ip flow monitor <monitorname> output [ sampler <samplername> ]

## Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/vlan-config

## ip flow monitor

[no] ip flow monitor <monitorname> { input | output } [ sampler <samplername> ]

### Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

### Command Mode

- /exec/configure/if-vlan-common

# ip forward

ip forward | no ip forward

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
forward	Enable ip forwarding on interface

## Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range /exec/configure/if-igp

## ip ftp source-interface

[no] ip ftp source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ftp	Configure FTP client
source-interface	Configure source interface feature for FTP client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec/configure



# ip host

[no] ip host <s0> <ipv4\_0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
host	Add an entry to the ip hostname table
<i>s0</i>	Name of Host
<i>ipv4_0</i>	Enter an IP address

## Command Mode

- /exec/configure

## ip http source-interface

```
[no] ip http source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
http	Configure HTTP client
source-interface	Configure source interface feature for FTP client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec/configure

## ip icmp-errors source-interface

[no] ip icmp-errors source-interface <interface> [ <icmp\_type> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
icmp-errors	ICMP unreachable/TTL-exceeded/param-prob messages
source-interface	Configure source-address for applications
<i>interface</i>	Interface to pick source-address from
<i>icmp_type</i>	(Optional) ICMPv6 types

### Command Mode

- /exec/configure /exec/configure/vrf

# ip igmp

```
{ { no ip igmp { querier-timeout | query-timeout } [ <time> ] } | { ip igmp { querier-timeout | query-timeout } <time> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
querier-timeout	Configures querier timeout for IGMPv2
query-timeout	Configures querier timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

## Command Mode

- /exec/configure/if-igp

# ip igmp

```
{ { ip igmp { report-policy | access-group } { <route-map-name> | prefix-list <prefix-list-name> } } | { no ip igmp { report-policy | access-group } [ <route-map-name> | prefix-list <prefix-list-name> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
report-policy	IGMP Report Policy
access-group	IGMP access-group
<i>route-map-name</i>	Route-map name
prefix-list	Prefix list policy
<i>prefix-list-name</i>	prefix-list name

## Command Mode

- /exec/configure/if-igp

# ip igmp

```
[no] ip igmp { static-group | static-oif } { { <group> [ source <source> ] } | { route-map <route-map-name> } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
static-group	Configures static oif for a multicast forwarding entry
static-oif	Configures static oif for a multicast forwarding entry
<i>group</i>	Multicast group IP address
source	(Optional) Configures source address for IGMPv3 (S,G) Channel
<i>source</i>	(Optional) Source IP address
route-map	Static group policy
<i>route-map-name</i>	route-map name

## Command Mode

- /exec/configure/if-igp

# ip igmp allow-v3-asm

[no] ip igmp allow-v3-asm

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
allow-v3-asm	Accept IGMPv3 reports for non SSM groups

## Command Mode

- /exec/configure/if-igp

## ip igmp any-query-destination

[no] ip igmp any-query-destination

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
any-query-destination	Allow any destination-IP for General Queries

### Command Mode

- /exec/configure



# ip igmp bootup-delay

```
{ { no ip igmp bootup-delay [ <delay> ] } | { ip igmp bootup-delay <delay> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
bootup-delay	Configures bootup route add delay to RIB
<i>delay</i>	(Optional) Delay downloading in seconds

## Command Mode

- /exec/configure

# ip igmp enforce-router-alert

[no] ip igmp enforce-router-alert

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
enforce-router-alert	Enforce Router Alert option check for IGMPv2 and IGMPv3 packets

## Command Mode

- /exec/configure

## ip igmp event-history

[no] ip igmp event-history { interface-events | group-events } { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
interface-events	Interface-events for IGMP
group-events	Group-events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip igmp event-history cli

```
[no] ip igmp event-history cli { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
cli	CLI events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip igmp event-history ha

[no] ip igmp event-history ha { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
ha	HA events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip igmp event-history igmp-internal

```
[no] ip igmp event-history igmp-internal { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
igmp-internal	Internal events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip igmp event-history mtrace

```
[no] ip igmp event-history mtrace { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
mtrace	Mtrace events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip igmp event-history policy

```
[no] ip igmp event-history policy { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
policy	Policy events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure



## ip igmp event-history vrf

```
[no] ip igmp event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
vrf	VRF events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip igmp flush-routes

[no] ip igmp flush-routes

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
flush-routes	Remove routes when restarting IGMP

### Command Mode

- /exec/configure

# ip igmp group-specific-strict

[no] ip igmp group-specific-strict

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
group-specific-strict	Enable group specific consistency check

## Command Mode

- /exec/configure

# ip igmp group-timeout

```
{ { no ip igmp group-timeout [ <time> ] } | { ip igmp group-timeout <time> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
group-timeout	Configures group membership timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

## Command Mode

- /exec/configure/if-igp

# ip igmp ha-stateful

[no] ip igmp ha-stateful

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
ha-stateful	Enable stateful IGMP HA

## Command Mode

- /exec/configure

# ip igmp immediate-leave

[no] ip igmp immediate-leave

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
immediate-leave	Enable/Disable immediate leave

## Command Mode

- /exec/configure/if-igp

# ip igmp join-group

```
[no] ip igmp join-group { { <group> [ source <source> ] } | { route-map <route-map-name> } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
join-group	Configures local group membership for router
<i>group</i>	Multicast group IP address
source	(Optional) Configures source address for IGMPv3 (S,G) Channel
<i>source</i>	(Optional) Source IP address
route-map	Join group policy
<i>route-map-name</i>	route-map name

## Command Mode

- /exec/configure/if-igp

# ip igmp last-member-query-count

```
{ { no ip igmp last-member-query-count [ <count> ] } | { ip igmp last-member-query-count <count> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
last-member-query-count	Configures number of group-specific Queries sent
<i>count</i>	(Optional) Count value

## Command Mode

- /exec/configure/if-igmp



## ip igmp last-member-query-response-time

```
{ { no ip igmp last-member-query-response-time [ <interval> ] } | { ip igmp last-member-query-response-time <interval> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
last-member-query-response-time	Configures last member query response time
<i>interval</i>	(Optional) Interval in seconds

### Command Mode

- /exec/configure/if-igp

# ip igmp query-interval

```
{ { no ip igmp query-interval [ <interval> ] } | { ip igmp query-interval <interval> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
query-interval	Configures interval between Query transmission
<i>interval</i>	(Optional) Interval in seconds

## Command Mode

- /exec/configure/if-igp

# ip igmp query-max-response-time

```
{ { no ip igmp query-max-response-time [ <time> ] } | { ip igmp query-max-response-time <time> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
query-max-response-time	Configures MRT for query messages
<i>time</i>	(Optional) Time in seconds

## Command Mode

- /exec/configure/if-igp

## ip igmp report-link-local-groups

[no] ip igmp report-link-local-groups

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
report-link-local-groups	Send Reports for groups in 224.0.0.0/24

### Command Mode

- /exec/configure/if-igp

# ip igmp robustness-variable

```
{ { no ip igmp robustness-variable [ <value> ] } | { ip igmp robustness-variable <value> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
robustness-variable	Configures RFC defined Robustness Variable
<i>value</i>	(Optional) Count value

## Command Mode

- /exec/configure/if-igp

## ip igmp snooping

```
{ [ no ] ip igmp snooping { report-policy | access-group } { prefix-list | route-map } <pname> interface
<interface> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-policy	IGMP Report Policy
access-group	IGMP access-group
prefix-list	IPv4 Prefix-List Policy
route-map	Route-Map Policy
<i>pname</i>	Policy Name Name
interface	Specify interface for filtering
<i>interface</i>	Interface name

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping

## Command Mode

- /exec/configure/vlan

# ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping

## Command Mode

- /exec/configure



# ip igmp snooping

[no] ip igmp snooping { ha-stateful | cc-mode | m2rib-max-omfs <omf-count> | m2rib-max-omf-routes <omf-route-count> | m2rib-max-routes <route-count> | m2rib-max-buffers <buf-count> }

## Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
no	(Optional) Negate a command or set its defaults
ha-stateful	Enable stateful IGMP-Snooping HA
cc-mode	Enter MFDM congestion-control mode
m2rib-max-omfs	Number of OMF entries in M2RIB buffer
m2rib-max-routes	Number of route entries in M2RIB buffer
m2rib-max-omf-routes	Number of omf route entries in M2RIB buffer
m2rib-max-buffers	Number of update buffers with M2RIB
<i>omf-count</i>	
<i>route-count</i>	
<i>buf-count</i>	
<i>omf-route-count</i>	

## Command Mode

- /exec/configure

# ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping event-history igmp-snoop-internal

[no] ip igmp snooping event-history igmp-snoop-internal { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
igmp-snoop-internal	Internal events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure

# ip igmp snooping event-history mfdm-sum

[no] ip igmp snooping event-history mfdm-sum { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
mfdm-sum	MFDM-SUM events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure

## ip igmp snooping event-history mfdm

```
[no] ip igmp snooping event-history mfdm { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
mfdm	MFDM events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

# ip igmp snooping event-history rib

[no] ip igmp snooping event-history rib { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
rib	RIB events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure

## ip igmp snooping event-history vlan-events

```
[no] ip igmp snooping event-history vlan-events { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
vlan-events	VLAN/BD events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

# ip igmp snooping event-history vlan

[no] ip igmp snooping event-history vlan { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
vlan	VLAN/BD events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure



## ip igmp snooping event-history vpc

[no] ip igmp snooping event-history vpc { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
vpc	VPC events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

# ip igmp snooping explicit-tracking

{ { no ip igmp snooping explicit-tracking } | { ip igmp snooping explicit-tracking } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
explicit-tracking	Configures Explicit Host tracking for VLAN/BD

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping explicit-tracking

{ { no ip igmp snooping explicit-tracking } | { ip igmp snooping explicit-tracking } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
explicit-tracking	Configures Explicit Host tracking for VLAN/BD

## Command Mode

- /exec/configure/vlan

## ip igmp snooping fast-leave

{ { no ip igmp snooping fast-leave } | { ip igmp snooping fast-leave } }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
fast-leave	Configures Fast leave for the VLAN/BD

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping fast-leave

{ { no ip igmp snooping fast-leave } | { ip igmp snooping fast-leave } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
fast-leave	Configures Fast leave for the VLAN/BD

## Command Mode

- /exec/configure/vlan

## ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
group-timeout	Configures group membership timeout in VLAN/BD
<i>timeout</i>	Timeout in minutes
never	Never expire ports from group membership

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
group-timeout	Configures group membership timeout in all VLAN/BDs
<i>timeout</i>	Timeout in minutes
never	Never expire ports from group membership

### Command Mode

- /exec/configure

## ip igmp snooping last-member-query-count

```
{ { no ip igmp snooping last-member-query-count [ <count> ] } | { ip igmp snooping last-member-query-count <count> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-count	Configures number of group-specific queries sent
<i>count</i>	(Optional) Count value

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain



## ip igmp snooping last-member-query-count

```
{ { no ip igmp snooping last-member-query-count [ <count> ] } | { ip igmp snooping last-member-query-count <count> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-count	Configures number of group-specific queries sent
<i>count</i>	(Optional) Count value

### Command Mode

- /exec/configure/vlan

## ip igmp snooping last-member-query-interval

```
{ { no ip igmp snooping last-member-query-interval [ <interval> ] } | { ip igmp snooping
last-member-query-interval <interval> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-interval	Configures interval between group-specific Query transmissions
<i>interval</i>	(Optional) Interval in seconds

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping last-member-query-interval

```
{ { no ip igmp snooping last-member-query-interval [ <interval> ] } | { ip igmp snooping last-member-query-interval <interval> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-interval	Configures interval between group-specific Query transmissions
<i>interval</i>	(Optional) Interval in seconds

## Command Mode

- /exec/configure/vlan

## ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
link-local-groups-suppression	Configures VLAN/BD link-local groups suppression

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
link-local-groups-suppression	Configures VLAN/BD link-local groups suppression

## Command Mode

- /exec/configure/vlan

## ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
link-local-groups-suppression	Configures Global link-local groups suppression

### Command Mode

- /exec/configure

## ip igmp snooping max-gq-miss

{ { no ip igmp snooping max-gq-miss } | { ip igmp snooping max-gq-miss <count> } }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
max-gq-miss	Configure general query miss count
<i>count</i>	Max number of GQ misses allowed

### Command Mode

- /exec/configure

## ip igmp snooping mrouter interface

```
{ { no ip igmp snooping mrouter interface <interface> } | { ip igmp snooping mrouter interface <interface> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
mrouter	Configures static multicast router interface
interface	Specify interface for static-mrouter
<i>interface</i>	Interface name

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain



# ip igmp snooping mrouter interface

```
{ { no ip igmp snooping mrouter interface <interface> } | { ip igmp snooping mrouter interface <interface> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
mrouter	Configures static multicast router interface
interface	Specify interface for static-mrouter
<i>interface</i>	Interface name

## Command Mode

- /exec/configure/vlan

## ip igmp snooping optimised-multicast-flood

[no] ip igmp snooping optimised-multicast-flood

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
optimised-multicast-flood	Configures Optimised Multicast Flood (OMF) on the VLAN/BD

### Command Mode

- /exec/configure/vlan

# ip igmp snooping proxy general-queries

[no] ip igmp snooping proxy general-queries [ mrt <mrt> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
proxy	Configures IGMP snooping proxy
general-queries	Configures proxy for general-queries
mrt	(Optional) Configure max-response-time for the switch's proxy general-queries
<i>mrt</i>	(Optional) MRT in seconds

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping proxy general-queries

[no] ip igmp snooping proxy general-queries [ mrt <mrt> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
proxy	Configures IGMP snooping proxy
general-queries	Configures proxy for general-queries
mrt	(Optional) Configure max-response-time for the switch's proxy general-queries
<i>mrt</i>	(Optional) MRT in seconds

### Command Mode

- /exec/configure

## ip igmp snooping querier-timeout

```
{ { no ip igmp snooping querier-timeout [ <time> ] } | { ip igmp snooping querier-timeout <time> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier-timeout	Configures querier timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping querier-timeout

```
{ { no ip igmp snooping querier-timeout [ <time> ] } | { ip igmp snooping querier-timeout <time> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier-timeout	Configures querier timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

### Command Mode

- /exec/configure/vlan

# ip igmp snooping querier

{ { no ip igmp snooping querier [ <querier> ] } | { ip igmp snooping querier <querier> } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier	Enables snooping querier
<i>querier</i>	(Optional) Querier IP address

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping querier

```
{ { no ip igmp snooping querier [ <querier> ] } | { ip igmp snooping querier <querier> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier	Enables snooping querier
<i>querier</i>	(Optional) Querier IP address

### Command Mode

- /exec/configure/vlan



# ip igmp snooping query-interval

{ { no ip igmp snooping query-interval [ <interval> ] } | { ip igmp snooping query-interval <interval> } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-interval	Configures interval between query transmission
<i>interval</i>	(Optional) Interval in seconds

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping query-interval

```
{ { no ip igmp snooping query-interval [ <interval> ] } | { ip igmp snooping query-interval <interval> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-interval	Configures interval between query transmission
<i>interval</i>	(Optional) Interval in seconds

### Command Mode

- /exec/configure/vlan

## ip igmp snooping query-max-response-time

```
{ { no ip igmp snooping query-max-response-time [ <time> ] } | { ip igmp snooping query-max-response-time <time> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-max-response-time	Configures MRT for query messages
<i>time</i>	(Optional) Time in seconds

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping query-max-response-time

```
{ { no ip igmp snooping query-max-response-time [ <time> ] } | { ip igmp snooping query-max-response-time <time> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-max-response-time	Configures MRT for query messages
<i>time</i>	(Optional) Time in seconds

### Command Mode

- /exec/configure/vlan

## ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-suppression	Configures IGMPv1/IGMPv2 Report Suppression for the VLAN/BD

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-suppression	Configures IGMPv1/IGMPv2 Report Suppression for the VLAN/BD

## Command Mode

- /exec/configure/vlan

# ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-suppression	Configures Global IGMPv1/IGMPv2 Report Suppression

## Command Mode

- /exec/configure

## ip igmp snooping robustness-variable

```
{ { no ip igmp snooping robustness-variable [ <value> ] } | { ip igmp snooping robustness-variable <value> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
robustness-variable	Configures RFC defined Robustness Variable
<i>value</i>	(Optional) Count value

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain



## ip igmp snooping robustness-variable

```
{ { no ip igmp snooping robustness-variable [ <value> ] } | { ip igmp snooping robustness-variable <value> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
robustness-variable	Configures RFC defined Robustness Variable
<i>value</i>	(Optional) Count value

### Command Mode

- /exec/configure/vlan

## ip igmp snooping self-mac-check

[no] ip igmp snooping self-mac-check

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
self-mac-check	enable loopback packet check and drop it
snooping	Configures IGMP Snooping

### Command Mode

- /exec/configure

## ip igmp snooping startup-query-count

```
{ { no ip igmp snooping startup-query-count [ <count> ] } | { ip igmp snooping startup-query-count <count> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-count	Configures number of queries sent at startup
<i>count</i>	(Optional) Count value

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping startup-query-count

```
{ { no ip igmp snooping startup-query-count [ <count> ] } | { ip igmp snooping startup-query-count <count> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-count	Configures number of queries sent at startup
<i>count</i>	(Optional) Count value

### Command Mode

- /exec/configure/vlan

# ip igmp snooping startup-query-interval

```
{ { no ip igmp snooping startup-query-interval [ <interval> ] } | { ip igmp snooping startup-query-interval <interval> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-interval	Configures query interval at startup
<i>interval</i>	(Optional) Interval in seconds

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping startup-query-interval

```
{ { no ip igmp snooping startup-query-interval [ <interval> ] } | { ip igmp snooping startup-query-interval <interval> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-interval	Configures query interval at startup
<i>interval</i>	(Optional) Interval in seconds

### Command Mode

- /exec/configure/vlan

# ip igmp snooping static-group

```
{ { no ip igmp snooping static-group <group> [ source <source> ] interface <interface> } | { ip igmp snooping static-group <group> [ source <source> ] interface <interface> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
static-group	Configures static group membership
<i>group</i>	Group IP Address
source	(Optional) Configures static (S,G) channel
<i>source</i>	(Optional) Source IP Address
interface	Specify interface for static-group
<i>interface</i>	Interface name

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping static-group

```
{ { no ip igmp snooping static-group <group> [ source <source> ] interface <interface> } | { ip igmp snooping static-group <group> [ source <source> ] interface <interface> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
static-group	Configures static group membership
<i>group</i>	Group IP Address
source	(Optional) Configures static (S,G) channel
<i>source</i>	(Optional) Source IP Address
interface	Specify interface for static-group
<i>interface</i>	Interface name

### Command Mode

- /exec/configure/vlan



# ip igmp snooping v3-report-suppression

{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
v3-report-suppression	Configures IGMPv3 Report Suppression and Proxy Reporting for the VLAN/BD

## Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

## ip igmp snooping v3-report-suppression

```
{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
v3-report-suppression	Configures IGMPv3 Report Suppression and Proxy Reporting for the VLAN/BD

### Command Mode

- /exec/configure/vlan

# ip igmp snooping v3-report-suppression

```
{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
v3-report-suppression	Configures Global IGMPv3 Report Suppression and Proxy Reporting

## Command Mode

- /exec/configure

## ip igmp snooping version

```
{ { no ip igmp snooping version [ <version> ] } | { ip igmp snooping version <version> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
version	Configures IGMP version number for VLAN/BD
<i>version</i>	(Optional) Version number value

### Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

# ip igmp snooping version

{ { no ip igmp snooping version [ <version> ] } | { ip igmp snooping version <version> } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
version	Configures IGMP version number for VLAN/BD
<i>version</i>	(Optional) Version number value

## Command Mode

- /exec/configure/vlan

## ip igmp snooping vpc

ip igmp snooping vpc { clear-cfs-flag | clear-pending-flag | clear-native-flag }

### Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	vPC related command
clear-cfs-flag	clear cfs learnt flag from the routes / oifs
clear-native-flag	clear native learnt flag from the routes / oifs
clear-pending-flag	clear pending flag if set

### Command Mode

- /exec

## ip igmp snooping vpc

ip igmp snooping vpc [ vpc-incremental | vpc-sync-only ]

### Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	vPC related events
vpc-sync-only	(Optional) default - no vpc-incremental with route proxy disabled
vpc-incremental	(Optional) vpc-incremental mode with route proxy enabled

### Command Mode

- /exec/configure

## ip igmp snooping vpc peer-link-exclude

[no] ip igmp snooping vpc peer-link-exclude

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
vpc	Configures vPC
peer-link-exclude	Exclude vPC Peer-link for Routed multicast traffic

### Command Mode

- /exec/configure



# ip igmp snooping vpc peer-routes-download

ip igmp snooping vpc peer-routes-download [ stale ]

## Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	vPC related command
peer-routes-download	get peer-learned routes
stale	(Optional) stale the cfs learnt entry, i.e. clear cfs_flag

## Command Mode

- /exec

# ip igmp spoof-check

[no] ip igmp spoof-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
spoof-check	Enable spoof check for IGMP

## Command Mode

- /exec/configure

# ip igmp ssm-translate

[no] ip igmp ssm-translate <group> <source>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
ssm-translate	Translate IGMPv1/v2 reports to (S,G) route entries
<i>group</i>	IP Multicast group range
<i>source</i>	IP Multicast address source

## Command Mode

- /exec/configure /exec/configure/vrf

## ip igmp startup-query-count

```
{ { no ip igmp startup-query-count [ <count> ] } | { ip igmp startup-query-count <count> } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
startup-query-count	Configures number of queries sent at startup
<i>count</i>	(Optional) Count value

### Command Mode

- /exec/configure/if-igp

# ip igmp startup-query-interval

```
{ { no ip igmp startup-query-interval [ <interval> ] } | { ip igmp startup-query-interval <interval> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
startup-query-interval	Configures query interval at startup
<i>interval</i>	(Optional) Interval in seconds

## Command Mode

- /exec/configure/if-igp

## ip igmp state-limit

```
{ { ip igmp state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ip igmp state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
state-limit	Configures State limit
<i>max-states</i>	Maximum states allowed
reserved	(Optional) Reserve the states using route-map
<i>route-map-name</i>	(Optional) Route-map name
<i>max-reserved</i>	(Optional) Maximum (*,G)/(S,G) entires allowed on the interface

### Command Mode

- /exec/configure/if-igp

# ip igmp syslog-threshold

{ ip igmp syslog-threshold <percentage> } | { no ip igmp syslog-threshold }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP related events
syslog-threshold	IGMP table syslog threshold
<i>percentage</i>	Percentage

## Command Mode

- /exec/configure

# ip igmp version

```
{ { no ip igmp version [ <version> ] } | { ip igmp version <version> } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
version	Configures IGMP version number for interface
<i>version</i>	(Optional) Version number value

## Command Mode

- /exec/configure/if-igp



# ip load-sharing address

[no] ip load-sharing address { source-destination [ port source-destination2 | gre | gre-outer ] | destination port2 destination2 } { [ rotate <rotate> ] | [ concatenation ] } + [ universal-id <random-seed> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
load-sharing	ECMP load-sharing
address	Configure source/destination addresses, port numbers and hash
source-destination	Use both source and destination values for address
port	(Optional) Use source-destination value for port
gre	(Optional) Use source-destination value for gre-key
gre-outer	(Optional) Use outer IPv4 header fields for GRE tunnel hashing
source-destination2	(Optional) Use both source and destination values for port
destination	Use destination address
port2	Use destination value for port
destination2	Use destination port
rotate	(Optional) Offset to be used in the hash
<i>rotate</i>	(Optional) Value used for offset, default value is 32
concatenation	(Optional) Enable/Disable concatenation
universal-id	(Optional) Universal-id to randomize hash functions for load-balance
<i>random-seed</i>	(Optional) Value used to randomize hash

## Command Mode

- /exec/configure

# ip load-sharing per-packet

ip load-sharing per-packet | no ip load-sharing [ per-packet ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
load-sharing	Style of load sharing
per-packet	Enable per-packet load balancing on interface

## Command Mode

- /exec/configure/if-igp

# ip local-proxy-arp

{ ip local-proxy-arp | no ip local-proxy-arp }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
local-proxy-arp	Configure local proxy ARP

## Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

# ip mroute

```
[no] ip mroute { <ip-addr> <ip-mask> | <ip-prefix> } { { <next-hop> | <nh-prefix> } | <interface> } [ <pref> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

<code>no</code>	(Optional) Negate a command or set its defaults
<code>ip</code>	Configure IP features
<code>mroute</code>	Configure multicast RPF static route
<i>ip-addr</i>	IP prefix in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
<i>ip-prefix</i>	IP prefix and network mask length in format x.x.x.x/m
<i>next-hop</i>	IP next-hop address in format i.i.i.i
<i>nh-prefix</i>	IP next-hop prefix in format i.i.i.i/m
<i>interface</i>	Interface for interface static multicast routes
<i>pref</i>	(Optional) Route preference
<code>vrf</code>	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp description

ip msdp description <peer-address> <text> | no ip msdp description <peer-address> [ <text> ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
description	Configure MSDP description for peer
<i>peer-address</i>	IP address of MSDP peer
<i>text</i>	Text description

## Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp event-history cli

[no] ip msdp event-history cli { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
cli	CLI logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure

## ip msdp event-history events

```
[no] ip msdp event-history events { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
events	Peer events for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip msdp event-history msdp-internal

[no] ip msdp event-history msdp-internal { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
msdp-internal	Internal logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure



# ip msdp event-history routes

[no] ip msdp event-history routes { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
routes	Route logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure

## ip msdp event-history tcp

[no] ip msdp event-history tcp { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
tcp	TCP logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

# ip msdp flush-routes

[no] ip msdp flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
flush-routes	Remove routes when restarting MSDP

## Command Mode

- /exec/configure /exec/configure/vrf

## ip msdp group-limit

[no] ip msdp group-limit <limit> source <sprefix>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
group-limit	Limit the number of groups per source
<i>limit</i>	Limit on number of groups
source	Sources to limit groups to
<i>sprefix</i>	Prefix to match sources against

### Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp keepalive

ip msdp keepalive <peer-address> <interval> <timeout> | no ip msdp keepalive <peer-address> [ <interval> <timeout> ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
keepalive	Configure MSDP keepalive parameters for peer
<i>peer-address</i>	IP address of MSDP peer
<i>interval</i>	Keepalive interval in seconds
<i>timeout</i>	Keepalive timeout in seconds

## Command Mode

- /exec/configure /exec/configure/vrf

## ip msdp mesh-group

ip msdp mesh-group <peer-address> <name> | no ip msdp mesh-group <peer-address> [ <name> ]

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
mesh-group	Configure member of mesh-group
<i>name</i>	Name of mesh-group
<i>peer-address</i>	IP address of MSDP peer in mesh-group

### Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp no-sa-data

[no] ip msdp no-sa-data

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
no-sa-data	Don't send SA-encapsulated data

## Command Mode

- /exec/configure /exec/configure/vrf

## ip msdp originator-id

ip msdp originator-id <interface> | no ip msdp originator-id [ <interface> ]

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
originator-id	Configure alternative router-id for MSDP
<i>interface</i>	Use IP address of interface for originator-id
<i>msdp</i>	

### Command Mode

- /exec/configure /exec/configure/vrf



# ip msdp password

ip msdp password <peer-address> <password> | no ip msdp password <peer-address> [ <password> ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
password	Configure MD5 authentication password
<i>peer-address</i>	IP address of MSDP peer
<i>password</i>	MD5 password

## Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp peer

```
{ { ip msdp peer <peer-address> connect-source <interface> [ remote-as <asn> ] } | { no ip msdp peer <peer-address> [ connect-source <interface> ] [ remote-as <asn> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
peer	Configure MSDP peer
<i>peer-address</i>	IP address of MSDP peer
connect-source	Configure local IP address for TCP connection
<i>interface</i>	Use IP address of interface for peer address
remote-as	(Optional) Configure remote Autonomous System Number
<i>asn</i>	(Optional) AS number
<i>msdp</i>	

## Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp reconnect-interval

ip msdp reconnect-interval <interval> | no ip msdp reconnect-interval [ <interval> ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
reconnect-interval	Configure connection reconnect interval
<i>interval</i>	Interval in seconds

## Command Mode

- /exec/configure /exec/configure/vrf

## ip msdp redistribute

[no] ip msdp redistribute [ route-map <route-map-name> | prefix-list <prefix-list-name> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
redistribute	Configure SA policy for all MSDP peer
route-map	(Optional) route-map policy
<i>route-map-name</i>	(Optional) route-map policy name
prefix-list	(Optional) Prefix list policy
<i>prefix-list-name</i>	(Optional) prefix-list name

### Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp sa-interval

ip msdp sa-interval <interval> | no ip msdp sa-interval [ <interval> ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-interval	Configure Source-Active message transmission interval
<i>interval</i>	Interval in seconds

## Command Mode

- /exec/configure /exec/configure/vrf

## ip msdp sa-limit

ip msdp sa-limit <peer-address> <limit> | no ip msdp sa-limit <peer-address> [ <limit> ]

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-limit	Configure maximum (S,G) entries allowed
<i>limit</i>	Number of (S,G) entries
<i>peer-address</i>	IP address of MSDP peer in mesh-group

### Command Mode

- /exec/configure /exec/configure/vrf

# ip msdp sa-policy

[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr\_pol\_name> } in

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-policy	Configure SA policy for MSDP peer
prefix-list	Prefix list policy
in	Input policy
<i>peer-address</i>	IP address of MSDP peer for SA policy
<i>route-map-name</i>	route-map policy name
<i>prefix-list-name</i>	prefix-list name
<i>rtr_pol_name</i>	

## Command Mode

- /exec/configure /exec/configure/vrf

## ip msdp sa-policy

```
[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr_pol_name>
} out
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-policy	Configure SA policy for MSDP peer
prefix-list	Prefix list policy
out	Output policy
<i>peer-address</i>	IP address of MSDP peer for SA policy
<i>route-map-name</i>	route-map policy name
<i>prefix-list-name</i>	prefix-list name
<i>rtr_pol_name</i>	

### Command Mode

- /exec/configure /exec/configure/vrf



# ip msdp shutdown

ip msdp shutdown <peer-address> | no ip msdp shutdown <peer-address>

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
shutdown	Administratively shut down peer
<i>peer-address</i>	IP address of MSDP peer

## Command Mode

- /exec/configure /exec/configure/vrf

# ip name-server

```
[no] ip name-server { { <ipv4_0> | <ipv6_1> } [ { <ipv4_2> | <ipv6_3> } [ { <ipv4_4> | <ipv6_5> } [ { <ipv4_6> | <ipv6_7> } [ { <ipv4_8> | <ipv6_9> } [ { <ipv4_10> | <ipv6_11> } ] ] ] ] ] { <ipv4_12> | <ipv6_13> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] | { <ipv4_14> | <ipv6_15> } [ { <ipv4_16> | <ipv6_17> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] | { <ipv4_18> | <ipv6_19> } [ { <ipv4_20> | <ipv6_21> } [ { <ipv4_22> | <ipv6_23> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] | { <ipv4_24> | <ipv6_25> } [ { <ipv4_26> | <ipv6_27> } [ { <ipv4_28> | <ipv6_29> } [ { <ipv4_30> | <ipv6_31> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] ] | { <ipv4_32> | <ipv6_33> } [ { <ipv4_34> | <ipv6_35> } [ { <ipv4_36> | <ipv6_37> } [ { <ipv4_38> | <ipv6_39> } [ { <ipv4_40> | <ipv6_41> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] ] ] | { <ipv4_42> | <ipv6_43> } [ { <ipv4_44> | <ipv6_45> } [ { <ipv4_46> | <ipv6_47> } [ { <ipv4_48> | <ipv6_49> } [ { <ipv4_50> | <ipv6_51> } [ { <ipv4_52> | <ipv6_53> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] ] ] ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
name-server	Specify nameserver address
<i>ipv4_0</i>	Enter an IPv4 address
<i>ipv4_2</i>	(Optional) Enter an IPv4 address
<i>ipv4_4</i>	(Optional) Enter an IPv4 address
<i>ipv4_6</i>	(Optional) Enter an IPv4 address
<i>ipv4_8</i>	(Optional) Enter an IPv4 address
<i>ipv4_10</i>	(Optional) Enter an IPv4 address
<i>ipv4_12</i>	Enter an IPv4 address
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ipv4_14</i>	Enter an IPv4 address
<i>ipv4_16</i>	(Optional) Enter an IPv4 address
<i>ipv4_18</i>	Enter an IPv4 address
<i>ipv4_20</i>	(Optional) Enter an IPv4 address
<i>ipv4_22</i>	(Optional) Enter an IPv4 address
<i>ipv4_24</i>	Enter an IPv4 address

<i>ipv4_26</i>	(Optional) Enter an IPv4 address
<i>ipv4_28</i>	(Optional) Enter an IPv4 address
<i>ipv4_30</i>	(Optional) Enter an IPv4 address
<i>ipv4_32</i>	Enter an IPv4 address
<i>ipv4_34</i>	(Optional) Enter an IPv4 address
<i>ipv4_36</i>	(Optional) Enter an IPv4 address
<i>ipv4_38</i>	(Optional) Enter an IPv4 address
<i>ipv4_40</i>	(Optional) Enter an IPv4 address
<i>ipv4_42</i>	Enter an IPv4 address
<i>ipv4_44</i>	(Optional) Enter an IPv4 address
<i>ipv4_46</i>	(Optional) Enter an IPv4 address
<i>ipv4_48</i>	(Optional) Enter an IPv4 address
<i>ipv4_50</i>	(Optional) Enter an IPv4 address
<i>ipv4_52</i>	(Optional) Enter an IPv4 address

**Command Mode**

- /exec/configure /exec/configure/vrf

# ip nat

[no] ip nat { inside | outside }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT interface commands
inside	Inside interface for address translation
outside	Outside interface for address translation

## Command Mode

- /exec/configure/if-port-channel /exec/configure/if-vlan /exec/configure/if-remote-ethernet /exec/configure/if-igp /exec/configure/if-routing

# ip nat inside source

```
[no] ip nat inside source { { static <insideLocalIP> <insideGlobalIP> [ vrf <vrf-name> [ match-in-vrf ] ] [
group <group-id> [ dynamic ] ] } | { static { tcp | udp } <insideLocalIP> <insideLocalPort> <insideGlobalIP>
<insideGlobalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ] } } { list <acl-name>
} { pool <pool-name> [ vrf <vrf-name> [ match-in-vrf ] ] [ overload ] | interface <globalAddrInterface> [ vrf
<vrf-name> [ match-in-vrf ] ] overload } [ group <group-id> dynamic ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
inside	Inside address translation
source	Source address translation
static	Specify static local->global mapping
tcp	Transmission Control Protocol
udp	User Datagram Protocol
list	Specify access list describing local addresses
pool	Name pool of global addresses
interface	Specify interface for global address
vrf	(Optional) Specify vrf
match-in-vrf	(Optional) Match incoming vrf
dynamic	(Optional) Dynamic twice NAT group
<i>insideLocalIP</i>	Inside local IP address
<i>insideLocalPort</i>	Local UDP/TCP port
<i>insideGlobalIP</i>	Inside global IP address
<i>insideGlobalPort</i>	Global UDP/TCP port
group	(Optional) Specify group for the twice NAT
<i>group-id</i>	(Optional) Group ID for the twice NAT
<i>acl-name</i>	Access-list-name
<i>pool-name</i>	Pool name for global addresses
<i>vrf-name</i>	(Optional) vrf name

<i>globalAddrInterface</i>	interface type and number in module/slot format
overload	(Optional) Overload an address translation

**Command Mode**

- /exec/configure

# ip nat outside source

```
[no] ip nat outside source { static <outsideGlobalIP> <outsideLocalIP> [ vrf <vrf-name> [ match-in-vrf ] ] [
group <group-id> [ dynamic ] ] | static { tcp | udp } <outsideGlobalIP> <outsideGlobalPort> <outsideLocalIP>
<outsideLocalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> [ dynamic ] ] | list <acl-name>
pool <pool-name> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id> dynamic ] } [ add-route ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
outside	Outside address translation
source	Source address translation
static	Specify static global->local mapping
tcp	Transmission Control Protocol
udp	User Datagram Protocol
list	Specify access list describing local addresses
pool	Name pool of global addresses
vrf	(Optional) Specify vrf
match-in-vrf	(Optional) Match incoming vrf
<i>outsideGlobalIP</i>	Outside global IP address
<i>outsideGlobalPort</i>	Outside Global UDP/TCP port
<i>outsideLocalIP</i>	Outside local IP address
<i>outsideLocalPort</i>	Outside Local UDP/TCP port
group	(Optional) Specify group for the twice NAT
dynamic	(Optional) Dynamic twice NAT group
<i>group-id</i>	(Optional) Group ID for the twice NAT
<i>acl-name</i>	Access-list-name
<i>vrf-name</i>	(Optional) vrf name
<i>pool-name</i>	Pool name for global addresses
add-route	(Optional) Add a static route for outside local address

**Command Mode**

- /exec/configure



# ip nat pool

```
ip nat pool <pool-name> { netmask <netmask> | prefix-length <prefix-length> } [ no-alias ]
```

## Syntax Description

ip	Configure IP features
nat	NAT configuration commands
pool	Define pool of addresses
netmask	Specify the network mask
prefix-length	Specify the prefix length
no-alias	(Optional) Do not create alias for these pool addresses
<i>pool-name</i>	Pool name
<i>netmask</i>	Network mask
<i>prefix-length</i>	Prefix length

## Command Mode

- /exec/configure

# ip nat pool

```
ip nat pool <pool-name> <start-ip> <end-ip> { netmask <netmask> | prefix-length <prefix-length> } [ no-alias ] | no ip nat pool <pool-name>
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
pool	Define pool of addresses
netmask	Specify the network mask
prefix-length	Specify the prefix length
no-alias	(Optional) Do not create alias for these pool addresses
<i>pool-name</i>	Pool name
<i>start-ip</i>	Start IP address
<i>end-ip</i>	End IP address
<i>netmask</i>	Network mask
<i>prefix-length</i>	Prefix length

## Command Mode

- /exec/configure

# ip nat translation

[no] ip nat translation { tcp-timeout | udp-timeout | timeout } <timeout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
translation	NAT translation entry configuration
tcp-timeout	Specify timeout for NAT TCP flows
udp-timeout	Specify timeout for NAT UDP flows
timeout	Specify timeout for dynamic NAT flows
<i>timeout</i>	Timeout in seconds (in addition to sampling-timeout)

## Command Mode

- /exec/configure

## ip nat translation max-entries

ip nat translation max-entries [ all-host ] <max> | no ip nat translation max-entries [ all-host ]

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
translation	NAT translation entry configuration
max-entries	Specify maximum number of NAT dynamic entries
all-host	(Optional) Specify maximum number of NAT entries for each host
<i>max</i>	Number of entries

### Command Mode

- /exec/configure

# ip nat translation sampling-timeout

[no] ip nat translation sampling-timeout <timeout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
translation	NAT translation entry configuration
sampling-timeout	Specify timeout after which the checking for activity is done
<i>timeout</i>	Timeout in seconds (max: 2days)

## Command Mode

- /exec/configure

# ip ospf advertise-subnet

[no] ip ospf advertise-subnet

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
advertise-subnet	Advertise loopback interface IP subnet in router LSA

## Command Mode

- /exec/configure/if-loopback

# ip ospf authentication-key

{ { ip ospf authentication-key <key> } | { no ip ospf authentication-key [ <key> ] } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
authentication-key	Configure the authentication key for the interface
<i>key</i>	Authentication key

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

## ip ospf authentication

[no] ip ospf authentication [ message-digest | null ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
authentication	Authentication on the interface
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

### Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config



# ip ospf authentication key-chain

{ ip ospf authentication key-chain <keychain> } | { no ip ospf authentication key-chain [ <keychain> ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
authentication	Authentication on the interface
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

## Command Mode

- /exec/configure/if-igmp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf bfd

[no] ip ospf bfd [ disable ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
bfd	Enable BFD on this interface
disable	(Optional) Disable BFD on this interface

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

# ip ospf cost

```
{ ip ospf cost <cost> } | { no ip ospf cost [ <cost> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
cost	Cost associated with interface
<i>cost</i>	Cost value

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf dead-interval

{ ip ospf dead-interval <interval> } | { no ip ospf dead-interval [ <interval> ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
dead-interval	Dead interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf flood-bw-percentage

[no] ip ospf flood-bw-percentage <percentage>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
flood-bw-percentage	Percentage of bandwidth used for flooding
<i>percentage</i>	Negate a command or set its defaults

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf hello-interval

```
{ ip ospf hello-interval <interval> } | { no ip ospf hello-interval [ <interval> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
hello-interval	Hello interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf message-digest-key

```
{ { ip ospf message-digest-key <keyid> md5 <key> } | { no ip ospf message-digest-key <keyid> [ md5 <key> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
message-digest-key	Message digest authentication password (key)
<i>keyid</i>	Key ID
md5	Use MD5 algorithm
<i>key</i>	The OSPF password (key)

## Command Mode

- /exec/configure/if-igmp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf mtu-ignore

[no] ip ospf mtu-ignore

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
mtu-ignore	Disable OSPF MTU mismatch detection

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config



# ip ospf network

{ ip ospf network { broadcast | point-to-point } } | { no ip ospf network [ { broadcast | point-to-point } ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
network	Network type
broadcast	Specify OSPF broadcast multi-access network
point-to-point	Specify OSPF point-to-point network

## Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

## ip ospf network point-to-point

{ ip ospf network point-to-point } | { no ip ospf network [ point-to-point ] }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
network	Network type
point-to-point	Specify OSPF point-to-point network

### Command Mode

- /exec/configure/if-loopback

# ip ospf passive-interface

[ default | no ] ip ospf passive-interface

## Syntax Description

default	(Optional) Undo a command
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
passive-interface	Suppress routing updates on the interface

## Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

# ip ospf priority

{ ip ospf priority <prio> } | { no ip ospf priority [ <prio> ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
priority	Router priority
<i>prio</i>	Router priority

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf retransmit-interval

{ ip ospf retransmit-interval <interval> } | { no ip ospf retransmit-interval [ <interval> ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip ospf shutdown

[no] ip ospf shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
shutdown	shutdown ospf on this interface

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

# ip ospf transmit-delay

{ ip ospf transmit-delay <delay> } | { no ip ospf transmit-delay [ <delay> ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip pim

```
{ { ip pim [ bsr ] bsr-candidate <interface> [ hash-len <hash-len> ] [ priority <priority> ] [ interval <interval> ] } | { no ip pim [ bsr ] bsr-candidate [ <interface> ] [ hash-len <hash-len> ] [ priority <priority> ] [ interval <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
bsr-candidate	Configure router as a Bootstrap Router candidate
<i>interface</i>	Use IP address of interface for Bootstrap messages
hash-len	(Optional) Hash mask length used in Bootstrap messages
<i>hash-len</i>	(Optional) Hash mask length value
priority	(Optional) BSR priority used in Bootstrap messages
<i>priority</i>	(Optional) BSR priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds

## Command Mode

- /exec/configure /exec/configure/vrf



# ip pim

```
{ { ip pim [ bsr ] rp-candidate <interface> { group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> } [ priority <priority> ] [ interval <interval> ] [ bidir ] } | { no ip pim [ bsr ] rp-candidate [ <interface> ] [ group-list <prefix> ] [ route-map <route-map-name> ] [ prefix-list <prefix-list-name> ] [ priority <priority> ] [ interval <interval> ] [ bidir ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
rp-candidate	Configure router as a Rendezvous Point (RP) candidate
<i>interface</i>	Use IP address of interface for Candidate-RP messages
group-list	Group range list
<i>prefix</i>	Prefix of group range
route-map	Group range policy for Candidate RP
<i>route-map-name</i>	route-map name
prefix-list	Prefix List policy for Candidate RP
<i>prefix-list-name</i>	prefix-list name
priority	(Optional) RP priority used in Candidate-RP messages
<i>priority</i>	(Optional) RP priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM bidirectional mode

## Command Mode

- /exec/configure /exec/configure/vrf

# ip pim

```
{ { ip pim { auto-rp rp-candidate | send-rp-announce } { <interface> | <ipaddr> } { group-list <prefix> |
route-map <route-map-name> | prefix-list <prefix-list-name> } { [ scope <ttl> ] | [ interval <interval> ] | [
bidir ] } } + } | { no ip pim { { auto-rp rp-candidate } | send-rp-announce } [ <interface> | <ipaddr> ] [ group-list
<prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] { [ scope <ttl> ] | [ interval <interval>
] | [ bidir ] } } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
send-rp-announce	Configures router to send Auto-RP Announce messages
rp-candidate	Configures router to be an Auto-RP candidate RP
<i>interface</i>	Use IP address of interface for Auto-RP Announce messages
<i>ipaddr</i>	IP address of RP for group
group-list	Group range list
<i>prefix</i>	Prefix of group range
route-map	Group range policy for Auto-RP Candidate RP
<i>route-map-name</i>	route-map name
prefix-list	Prefix List policy for Auto-RP Candidate RP
<i>prefix-list-name</i>	prefix-list name
scope	(Optional) Configure the scope of Auto-RP Announce messages
<i>ttl</i>	(Optional) TTL value for scope
interval	(Optional) Auto-RP Announce message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM bidirectional mode

## Command Mode

- /exec/configure /exec/configure/vrf

# ip pim

```
{ { ip pim { { auto-rp mapping-agent } | send-rp-discovery } <interface> [ scope <ttl> ] } | { no ip pim { { auto-rp mapping-agent } | send-rp-discovery } [ <interface> ] [ scope <ttl> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
send-rp-discovery	Configures router to send Auto-RP Discovery messages
mapping-agent	Configures router as an Auto-RP RP-mapping agent
<i>interface</i>	Use IP address of interface for Auto-RP Announce messages
scope	(Optional) Configure the scope of Auto-RP Discovery messages
<i>ttl</i>	(Optional) TTL value for scope

## Command Mode

- /exec/configure /exec/configure/vrf

# ip pim

[no] ip pim { use-shared-tree-only | spt-threshold infinity } group-list { <route-map-name> | prefix-list <prefix-list-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
use-shared-tree-only	Use (*,G) only state, no source state is created
spt-threshold	Source-tree switching threshold
infinity	Never switch to source-tree
group-list	Specify group ranges through policy
<i>route-map-name</i>	route-map name
prefix-list	Prefix List policy
<i>prefix-list-name</i>	prefix-list name

## Command Mode

- /exec/configure /exec/configure/vrf

# ip pim

```
{ { ip pim [ sparse ] sg-expiry-timer { <expiry-time> | infinity } [ sg-list <route-map-name> | prefix-list <prefix-list-name> ] } | { no ip pim [ sparse ] sg-expiry-timer { <expiry-time> | infinity } [ sg-list <route-map-name> | prefix-list <prefix-list-name> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
sparse	(Optional) PIM ASM
sg-expiry-timer	Adjust expiry time for PIM ASM (S,G) routes
<i>expiry-time</i>	Expiry timer interval in seconds
infinity	Never expire (S,G) route due to data inactivity
sg-list	(Optional) Specifies route-map for (S,G)s to apply the expiry timer
<i>route-map-name</i>	(Optional) Route-map name
prefix-list	(Optional) Specifies prefix-list for (S,G)s to apply the expiry timer
<i>prefix-list-name</i>	(Optional) prefix-list name

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim anycast-rp

[no] ip pim anycast-rp <anycast-rp> <rp-addr>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
anycast-rp	Configure an RP in an Anycast-RP set (using PIM)
<i>anycast-rp</i>	Address for the Anycast-RP address
<i>rp-addr</i>	Address of RP in the Anycast-RP set

### Command Mode

- /exec/configure /exec/configure/vrf

## ip pim assert-rate-limit

```
{ { ip pim assert-rate-limit <rate> } | { no ip pim assert-rate-limit [ <rate> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
assert-rate-limit	Rate limit for PIM Asserts
<i>rate</i>	Packets per second

### Command Mode

- /exec/configure /exec/configure/vrf

# ip pim auto-enable

{ { no ip pim auto-enable } | { ip pim auto-enable } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-enable	Auto-enable configure on the vrf

## Command Mode

- /exec/configure /exec/configure/vrf



## ip pim auto-rp

{ ip pim auto-rp { listen | forward } + } | { no ip pim auto-rp [ { listen | forward } + ] }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
listen	Listen to Auto-RP messages
forward	Forward Auto-RP messages

### Command Mode

- /exec/configure /exec/configure/vrf

## ip pim auto-rp mapping-agent-policy

```
{ ip pim auto-rp mapping-agent-policy { <route-map-name> | <rtr_pol_name> } | no ip pim auto-rp
mapping-agent-policy [ <route-map-name> | <rtr_pol_name> ] }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
mapping-agent-policy	Specify policy for filtering Mapping Agent messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	

### Command Mode

- /exec/configure /exec/configure/vrf

## ip pim auto-rp rp-candidate-policy

{ ip pim auto-rp rp-candidate-policy { <route-map-name> | <rtr\_pol\_name> } | no ip pim auto-rp rp-candidate-policy [ <route-map-name> | <rtr\_pol\_name> ] }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	

### Command Mode

- /exec/configure /exec/configure/vrf

## ip pim bfd-instance

[no] ip pim bfd-instance [ disable ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
bfd-instance	Configures BFD on interface
disable	(Optional) Disable BFD on interface

### Command Mode

- /exec/configure/if-igp

# ip pim bfd

[no] ip pim bfd

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bfd	Enable / Disable BFD for all PIM interfaces in the VRF

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim bidir-rp-limit

[no] ip pim bidir-rp-limit <limit>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bidir-rp-limit	Configures maximum Bidir RPs for IPv4 PIM in this VRF
<i>limit</i>	Set limit for Bidir RPs permitted in IPv4 PIM

### Command Mode

- /exec/configure /exec/configure/vrf

# ip pim border

[no] ip pim border

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
border	Configures interface to be a boundary of a PIM domain

## Command Mode

- /exec/configure/if-igp

# ip pim bsr

{ ip pim bsr { listen | forward } + } | { no ip pim bsr [ { listen | forward } + ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
listen	Listen to Bootstrap/Candidate-RP messages
forward	Forward Bootstrap/Candidate-RP messages

## Command Mode

- /exec/configure /exec/configure/vrf



# ip pim bsr bsr-policy

{ ip pim bsr bsr-policy { <route-map-name> | <rtr\_pol\_name> } | no ip pim bsr bsr-policy [ <route-map-name> | <rtr\_pol\_name> ] }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
bsr-policy	Specify policy for filtering BSR messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim bsr rp-candidate-policy

```
{ ip pim bsr rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ip pim bsr rp-candidate-policy
[ <route-map-name> | <rtr_pol_name> ] }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	

### Command Mode

- /exec/configure /exec/configure/vrf

# ip pim df-offer-burst-interval

[no] ip pim df-offer-burst-interval <burst-interval>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
df-offer-burst-interval	Interval between DF offer bursts
<i>burst-interval</i>	Interval in milliseconds

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim dr-delay

```
{ { ip pim dr-delay <delay> } | { no ip pim dr-delay [ <delay> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
dr-delay	Configures delay for PIM DR election on interface
<i>delay</i>	Delay value

### Command Mode

- /exec/configure/if-igp

# ip pim dr-delay

```
{ { ip pim dr-delay <delay> } | { no ip pim dr-delay [ <delay> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
dr-delay	Configures delay for PIM DR election on interface
<i>delay</i>	Delay value

## Command Mode

- /exec/configure/if-igp

# ip pim dr-priority

```
{ { ip pim dr-priority <priority> } | { no ip pim dr-priority [ <priority> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
dr-priority	Configures priority for PIM DR election on interface
<i>priority</i>	Priority value

## Command Mode

- /exec/configure/if-igp

## ip pim event-history assert-receive

```
[no] ip pim event-history assert-receive { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
assert-receive	Assert receive events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip pim event-history bidir

```
[no] ip pim event-history bidir { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
bidir	Bidir events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure



# ip pim event-history cli

[no] ip pim event-history cli { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
cli	CLI events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure

## ip pim event-history hello

```
[no] ip pim event-history hello { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
hello	Hello events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip pim event-history join-prune-summary

```
[no] ip pim event-history join-prune-summary { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
join-prune-summary	JoinPrune-Summary for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip pim event-history join-prune

```
[no] ip pim event-history join-prune { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
join-prune	Join Prune events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip pim event-history null-register

```
[no] ip pim event-history null-register { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
null-register	Null register events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip pim event-history packet

```
[no] ip pim event-history packet { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
packet	Packet events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

# ip pim event-history pim-internal

[no] ip pim event-history pim-internal { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
pim-internal	Internal events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure

## ip pim event-history rp

```
[no] ip pim event-history rp { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
rp	RP events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure



## ip pim event-history vpc

[no] ip pim event-history vpc { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	Configure PIM event history
event-history	Configure event-history buffer
vpc	vPC events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

## ip pim event-history vrf

```
[no] ip pim event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
vrf	VRF events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure

# ip pim flush-routes

[no] ip pim flush-routes

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
flush-routes	Remove routes when restarting PIM

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim hello-authentication ah-md5

```
{ ip pim hello-authentication ah-md5 <auth-key> | no ip pim hello-authentication ah-md5 [ <auth-key> ] }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
hello-authentication	Add AH header option to Hellos
ah-md5	Use MD5 HMAC
<i>auth-key</i>	MD5 authentication key

### Command Mode

- /exec/configure/if-igp

# ip pim hello-interval

```
{ { ip pim hello-interval <interval> } | { no ip pim hello-interval [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
hello-interval	Configures the Hello interval for interface
<i>interval</i>	Interval in milliseconds

## Command Mode

- /exec/configure/if-igp

## ip pim jp-delay

```
{ { ip pim jp-delay <delay> } | { no ip pim jp-delay [ <delay> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
jp-delay	Join-Prune message inter-packet delay
<i>delay</i>	Delay value in microseconds

### Command Mode

- /exec/configure /exec/configure/vrf

# ip pim jp-interval

[no] ip pim jp-interval <interval>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
jp-interval	Join-Prune interval used between peers
<i>interval</i>	Interval in seconds

## Command Mode

- /exec/configure/if-igp

# ip pim jp-policy

```
{ ip pim jp-policy { <route-map-name> | prefix-list <prefix-list-name> } [ in | out ] | no ip pim jp-policy { <route-map-name> | prefix-list <prefix-list-name> } [ in | out ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
jp-policy	Specify policy for receiving Join-Prune messages
<i>route-map-name</i>	route-map name
prefix-list	Prefix List policy for static RP
<i>prefix-list-name</i>	prefix-list name
in	(Optional) Inbound
out	(Optional) Outbound

## Command Mode

- /exec/configure/if-igp



# ip pim log-neighbor-changes

[no] ip pim log-neighbor-changes

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
log-neighbor-changes	Log up/down PIM neighbor transitions

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim mtu

[no] ip pim mtu <size>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
mtu	MTU for IP PIM packet
<i>size</i>	MTU

### Command Mode

- /exec/configure

# ip pim mtu

[no] ip pim mtu <size>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
mtu	MTU for IP PIM packet
<i>size</i>	MTU

## Command Mode

- /exec/configure

# ip pim neighbor-policy

```
{ { ip pim neighbor-policy { <route-map-name> | prefix-list <prefix-list-name> } } | { no ip pim neighbor-policy [ <route-map-name> | prefix-list <prefix-list-name> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
neighbor-policy	Configures a neighbor policy for filtering adjacencies
<i>route-map-name</i>	route-map name
prefix-list	Prefix List policy for neighbor
<i>prefix-list-name</i>	prefix-list name

## Command Mode

- /exec/configure/if-igp

# ip pim null-reg-delay

```
{ { ip pim null-reg-delay <delay> } | { no ip pim null-reg-delay [ <delay> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
null-reg-delay	Null registers inter-batch delay
<i>delay</i>	Delay value in microseconds

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim null-reg-routes

```
{ { ip pim null-reg-routes <num> } | { no ip pim null-reg-routes [ <num> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
null-reg-routes	Null registers number of routes
<i>num</i>	Numerical value

### Command Mode

- /exec/configure /exec/configure/vrf

# ip pim pre-build-spt

{ { ip pim pre-build-spt } | { no ip pim pre-build-spt } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
pre-build-spt	Pre construct PIM trees for all known (S,G)s

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim register-policy

{ ip pim register-policy { <route-map-name> | prefix-list <prefix-list-name> } | no ip pim register-policy [ <route-map-name> | prefix-list <prefix-list-name> ] }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-policy	Specify policy for receiving Register messages
<i>route-map-name</i>	A route-map name
prefix-list	Prefix List policy for Registers
<i>prefix-list-name</i>	prefix-list name

### Command Mode

- /exec/configure /exec/configure/vrf



# ip pim register-rate-limit

```
{ { ip pim register-rate-limit <rate> } | { no ip pim register-rate-limit [ <rate> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-rate-limit	Rate limit for PIM data registers
<i>rate</i>	Packets per second

## Command Mode

- /exec/configure /exec/configure/vrf

# ip pim register-replicate

[no] ip pim register-replicate

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-replicate	Enable software replication of decapsulated PIM Register packets

## Command Mode

- /exec/configure

# ip pim register-source

```
{ { ip pim register-source { <src-interface> } } | { no ip pim register-source [ <src-interface> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-source	Configure source address for Register messages
<i>src-interface</i>	Use IP address of this interface for Register messages

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim register-until-stop

[no] ip pim register-until-stop

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-until-stop	Send Data Registers till Register Stop is received

### Command Mode

- /exec/configure

# ip pim rp-address

```
{ { ip pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } | { no ip pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
rp-address	Configure static RP for group range
<i>rp-address</i>	IP address of router which is RP for group range
group-list	(Optional) Group range for static RP
<i>prefix</i>	(Optional) Group range prefix
route-map	(Optional) Route Map policy for static RP
<i>route-map-name</i>	(Optional) route-map name
prefix-list	(Optional) Prefix List policy for static RP
<i>prefix-list-name</i>	(Optional) prefix-list name
bidir	(Optional) Group range is treated in PIM bidirectional mode
override	(Optional) RP address will override the dynamically learnt RPs

## Command Mode

- /exec/configure /exec/configure/vrf

# ip pim sparse-mode

ip pim sparse-mode | no ip pim [ sparse-mode ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
sparse-mode	Configures sparse-mode PIM on interface
<i>pim</i>	

## Command Mode

- /exec/configure/if-igp

# ip pim ssm

```
{ ip pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } | { prefix-list <prefix-list-name> } } | no ip pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } | { prefix-list <prefix-list-name> } } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
ssm	Source Specific Multicast (SSM) groups
range	Configure explicit group ranges
<i>group</i>	List of group range prefixes
route-map	Group range route-map policy for SSM range
<i>route-map-name</i>	A route-map name
prefix-list	Group range prefix-list policy for SSM range
<i>prefix-list-name</i>	A prefix-list name
none	Remove all SSM group ranges

## Command Mode

- /exec/configure /exec/configure/vrf

## ip pim state-limit

```
{ { ip pim state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ip pim state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
state-limit	Configures State limit
<i>max-states</i>	Maximum (*,G)/(S,G) entries allowed in this VRF
reserved	(Optional) Configures Reserved limit
<i>route-map-name</i>	(Optional) Route-map name
<i>max-reserved</i>	(Optional) Maximum reserved (*,G)/(S,G) entries allowed in this VRF

### Command Mode

- /exec/configure /exec/configure/vrf



# ip ping source-interface

[no] ip ping source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ping	Configure ping client
source-interface	Configure source interface feature for ping client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec/configure

## ip policy match router-address

[no] ip policy match router-address

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
policy	Configure PBR feature
match	Match values
router-address	Router's IP address

### Command Mode

- /exec/configure

# ip policy route-map

ip policy route-map <route-map-name> | no ip policy route-map [ <route-map-name> | <route-map-name> ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
policy	Configure PBR feature
route-map	Route-map for PBR
<i>route-map-name</i>	
<i>route-map-name</i>	(Optional)
<i>route-map-name</i>	(Optional)

## Command Mode

- /exec/configure/if-igp

# ip port-unreachable

[no] ip port-unreachable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
port-unreachable	Enable sending ICMP port-unreachable

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

## ip port access-group

[no] ip port access-group <name> <inout>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
port	Port policy
access-group	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

### Command Mode

- /exec/configure/if-set-acl-l2

# ip prefix-list

```
{ ip prefix-list <ipv4-pfl-name> seq <seq> { permit | deny } <prefix> { [ eq <equal> ] [ ge <greater> ] [ le <lesser> ] } } | { no ip prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } seq <seq> [ { permit | deny } <prefix> { [ eq <equal> ] [ ge <greater> ] [ le <lesser> ] } ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length

## Command Mode

- /exec/configure

# ip prefix-list

```
{ ip prefix-list <ipv4-pfl-name> { permit | deny } <prefix> { [ eq <equal> ] [ ge <greater> ] [ le <lesser> ]
} } | { no ip prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } [ { permit | deny } <prefix> { [ eq <equal> ]
[ ge <greater> ] [ le <lesser> ] } } }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
permit	Specify routes to forward
deny	Specify routes to reject
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length

## Command Mode

- /exec/configure

# ip prefix-list

{ ip prefix-list <ipv4-pfl-name> description <line> } | { no ip prefix-list <ipv4-pfl-name> description }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
description	Description of the IP prefix list
<i>line</i>	IP prefix-list description string

## Command Mode

- /exec/configure



# ip proxy-arp

{ ip proxy-arp | no ip proxy-arp }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
proxy-arp	Configure proxy ARP

## Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

## ip radius source-interface

[no] ip radius source-interface | ip radius source-interface <interface>

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
radius	Radius server
source-interface	Source interface to be used to reach radius server
<i>interface</i>	Interface Description

### Command Mode

- /exec/configure

# ip redirects

ip redirects | no ip redirects

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
redirects	Send ICMP Redirect messages

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

# ip repopulate internal context array

ip repopulate internal context array

## Syntax Description

ip	Display IP information
repopulate	Repopulate internal data structure
internal	Commands for internal use
context	repopulate context related info
array	arrays which stores context ptrs

## Command Mode

- /exec

# ip rip authentication key-chain

```
{ ip rip authentication key-chain <keychain> | no ip rip authentication key-chain [ <keychain> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
rip	RIP configuration commands
authentication	Authentication control
key-chain	Set authentication key-chain
<i>keychain</i>	Name of key-chain

## Command Mode

- /exec/configure/if-igp

## ip rip authentication mode

{ ip rip authentication mode { text | md5 } | no ip rip authentication mode [ { text | md5 } ] }

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
rip	RIP configuration commands
authentication	RIP authentication control
mode	Set authentication mode
text	Clear text authentication
md5	Keyed message digest

### Command Mode

- /exec/configure/if-igp

# ip rip summary-address

[no] ip rip summary-address <ip-prefix> | no ipv6 rip summary-address <ipv6-prefix> | ipv6 rip summary-address <ipv6-prefix>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
rip	RIP configuration commands
summary-address	RIP summarization address
<i>ip-prefix</i>	Exact prefix

## Command Mode

- /exec/configure/if-igp

# ip route

```
[no] ip route { <ip-addr> <ip-mask> | <ip-prefix> } { <interface> | { { <pin-interface> <next-hop> } | { <next-hop> | <nh-prefix> } | { <vlan-interface> } } [ vrf { <vrf-name> | <vrf-known-name> } ] [ track <object-num> ] [ name <rt-name> ] [ tag <tag-value> | <pref> ] +
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
route	Route information
<i>ip-addr</i>	IP prefix in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
<i>ip-prefix</i>	IP prefix and network mask length in format x.x.x.x/m
<i>pin-interface</i>	Pin interface
<i>next-hop</i>	IP next-hop address in format i.i.i.i
<i>nh-prefix</i>	IP next-hop prefix in format i.i.i.i/m
<i>interface</i>	Interface for interface static routes
<i>vlan-interface</i>	vlan interface
track	(Optional) Specify the Object to be Tracked
<i>object-num</i>	(Optional) Track Object Number
name	(Optional) Specify name of the next hop
<i>rt-name</i>	(Optional) Name of next hop
<i>pref</i>	(Optional) Route preference
tag	(Optional) Supply tag value with static route
<i>tag-value</i>	(Optional) 32-bit value for tag
vrf	(Optional) VRF for next-hop if different from this vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf



## ip route static bfd

[no] ip route static bfd <pin-interface> <next-hop>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
route	Route information
static	Static route based configuration
bfd	Enable bfd detection on static route
<i>pin-interface</i>	Interface on which bfd has to be enabled
<i>next-hop</i>	IP next-hop address in format i.i.i.i

### Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

# ip router isis

[no] ip router isis <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
router	Enable a routing process
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Process tag

## Command Mode

- /exec/configure/if-igp

# ip router ospf

[no] ip router ospf <tag> area { <area-id-ip> | <area-id-int> } [ secondaries none ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
router	Enable a routing process
ospf	OSPF configuration commands
<i>tag</i>	Process tag
area	Area associated with interface
<i>area-id-ip</i>	OSPF area ID in IP address format
<i>area-id-int</i>	OSPF area ID as a decimal format
secondaries	(Optional) Do not include secondary IP addresses
none	(Optional) Do not include secondary IP addresses

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip router ospf

[no] ip router ospf <tag> multi-area <area-id-ip>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
router	Enable a routing process
ospf	OSPF configuration commands
<i>tag</i>	Process tag
multi-area	Multi area associated with interface
<i>area-id-ip</i>	Area Id as an integer or ip address

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ip routing event-history

```
[no] ip routing event-history { add-route | cli | delete-route | detail | errors | general | ha | loop-detection |
modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary } size {
<size_in_text> | <size_in_bytes> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
routing	Routing information
event-history	Configure routing event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
errors	Errors
general	General
ha	HA
loop-detection	Loop detection
modify-route	Modify route
notifications	Notification
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM
ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary
size	Size of buffer
<i>size_in_text</i>	Buffer size
<i>size_in_bytes</i>	Enter an integer value for the event history buffer

## Command Mode

- /exec/configure

# ip sla

[no] ip sla <index>

## Syntax Description

no	(Optional)
ip	
sla	Service Level Agreement (SLA)
<i>index</i>	Entry Number

## Command Mode

- /exec/configure

# ip sla group schedule

```
{ no ip sla group schedule <group-id> | ip sla group schedule <group-id> { { add <operation-ids> | delete
<operation-ids> } | { <operation-ids> schedule-period <schedule-period-seconds> { [ ageout <ageout-seconds>
] [ frequency { <frequency-seconds> | range <random-frequency-range> } ] [ life { forever | <life-seconds>
} ] [ start-time { <hhmm> [ { January | February | March | April | May | June | July | August | September |
October | November | December } <day> | <day> [ January | February | March | April | May | June | July |
August | September | October | November | December ] ] | pending | now | after <hhmm> } ] } + } | reschedule
} }
```

## Syntax Description

no	
add	delete
start-time	(Optional) January
October	(Optional) November
operation-ids	<schedule-period-seconds>
random-frequency-range	(Optional) <ageout-seconds>
ip	
sla	Service Level Agreement (SLA)
group	Group Configuration or Group Scheduling
schedule	Group scheduling
group-id	Group schedule entry number
delete	Delete probes from existing group
reschedule	Reschedule the group using previous config
operation-ids	Multiple probe ID's to be group scheduled
schedule-period	Group schedule period range
schedule-period-seconds	seconds
frequency	(Optional) Group operation frequency
range	(Optional) Group operation frequency-range for random scheduling
frequency-seconds	(Optional) Specify frequency in seconds
ageout	(Optional) How long to keep this Entry when inactive
ageout-seconds	(Optional) Ageout Seconds
life	(Optional) Length of time to execute in seconds

<i>life-seconds</i>	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
after	(Optional) Start after a certain amount of time from now
<i>hhmm</i>	(Optional) Start time (hh:mm)
January	(Optional) Month of year
February	(Optional) Month of year
March	(Optional) Month of year
April	(Optional) Month of year
May	(Optional) Month of year
June	(Optional) Month of year
July	(Optional) Month of year
August	(Optional) Month of year
September	(Optional) Month of year
October	(Optional) Month of year
November	(Optional) Month of year
December	(Optional) Month of year
<i>day</i>	(Optional) Day of month
now	(Optional) Start now
pending	(Optional) Start pending

### Command Mode

- /exec/configure



# ip sla logging traps

[no] ip sla logging traps

## Syntax Description

no	(Optional)
ip	
sla	Service Level Agreement (SLA)
logging	Enable Syslog
traps	Enable syslog traps

## Command Mode

- /exec/configure

# ip sla reaction-configuration

```
[no] ip sla reaction-configuration <react-cfg-entry-num> react <monitored-element> | ip sla
reaction-configuration <react-cfg-entry-num> react <monitored-element> { [ action-type <action> ] [
threshold-value <rising-value> <falling-value> ] [ threshold-type { <neverImmed> | <consecutive> [
<consecutive-occurrences> ] | <xOfy> [ <x-value> <y-value> ] | <average> [ <n-attempts> ] } } } +
```

## Syntax Description

no	
<i>action-type</i>	(Optional) threshold-value
<i>falling-value</i>	(Optional) <neverImmed>
<i>consecutive-occurrences</i>	(Optional) <x-value>
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction-Configuration
<i>react-cfg-entry-num</i>	Entry Number
react	Reaction variable to be configured
<i>monitored-element</i>	monitored element
<i>action</i>	(Optional)
threshold-value	(Optional) Threshold Value
<i>rising-value</i>	(Optional) Upper limit for Threshold
threshold-type	(Optional) Threshold Type
<i>neverImmed</i>	(Optional)
<i>consecutive</i>	(Optional)
<i>xOfy</i>	(Optional)
<i>average</i>	(Optional)
<i>x-value</i>	(Optional) X value
<i>y-value</i>	(Optional) Y value
<i>n-attempts</i>	(Optional) N Value

## Command Mode

- /exec/configure

# ip sla reaction-trigger

[no] ip sla reaction-trigger <entry-num> <target-entry>

## Syntax Description

no	(Optional)
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Trigger Assignment
<i>entry-num</i>	Entry Number
<i>target-entry</i>	Target entry Number

## Command Mode

- /exec/configure

# ip sla reset

ip sla reset

## Syntax Description

ip	
sla	Service Level Agreement (SLA)
reset	IP SLAs Reset

## Command Mode

- /exec/configure

# ip sla responder

```
[no] ip sla responder [ { tcp-connect [ ipaddress<tcp-ip> ] port <tcp-port> } | { udp-echo [ ipaddress <udp-ip> ] port <udp-port> } ]
```

## Syntax Description

<i>tcp-connect</i>	(Optional) ipaddress
no	(Optional)
ip	
sla	
responder	Enable IP SLAs Responder
ipaddress	(Optional) Permanent address
port	(Optional) Permanent port
<i>tcp-port</i>	(Optional) Port Number
udp-echo	(Optional) Setup udp-echo responder
<i>udp-ip</i>	(Optional) IP Address or IP HostName
<i>udp-port</i>	(Optional) Port Number

## Command Mode

- /exec/configure

# ip sla restart

ip sla restart <index>

## Syntax Description

ip	
sla	Service Level Agreement (SLA)
restart	Restart An Active Entry
<i>index</i>	Entry Number

## Command Mode

- /exec/configure

# ip sla schedule

```
{ no ip sla schedule <index> | ip sla schedule <index> { [ life { <life-seconds> | forever } ] [ start-time { <hhmm> [ { January | February | March | April | May | June | July | August | September | October | November | December } <day> | <day> [ January | February | March | April | May | June | July | August | September | October | November | December ] ] | pending | now | { after <hhmm> } } ] [ ageout <ageout-seconds> ] [ recurring ] } + }
```

## Syntax Description

no	
<i>life</i>	(Optional) forever
<i>August</i>	(Optional) September
<i>recurring</i>	(Optional) <life-seconds>
ip	
sla	Service Level Agreement (SLA)
schedule	Entry Scheduling
<i>index</i>	Entry Number
<i>life-seconds</i>	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
start-time	(Optional) When to start this entry
<i>hhmm</i>	(Optional) Start time (hh:mm)
January	(Optional) Month of year
February	(Optional) Month of year
March	(Optional) Month of year
April	(Optional) Month of year
May	(Optional) Month of year
June	(Optional) Month of year
July	(Optional) Month of year
August	(Optional) Month of year
September	(Optional) Month of year
October	(Optional) Month of year
November	(Optional) Month of year

December	(Optional) Month of year
<i>day</i>	(Optional) Day of month
now	(Optional) Start now
after	(Optional) Start after a certain amount of time from now
pending	(Optional) Start pending
ageout	(Optional) How long to keep this Entry when inactive
<i>ageout-seconds</i>	(Optional) Ageout Seconds

**Command Mode**

- /exec/configure



# ip source-route

[no] ip source-route

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
source-route	IP source routing option

## Command Mode

- /exec/configure

# ip source

[no] ip source <interface> icmp-errors

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
source	Configure source-address for applications
<i>interface</i>	Interface to pick source-address from
icmp-errors	ICMP unreachable/TTL-exceeded/param-prob messages

## Command Mode

- /exec/configure /exec/configure/vrf

# ip source binding

[no] ip source binding <ipaddr1> <macaddr> vlan <vlanid> interface <interface1>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
source	IP source
binding	Static binding
<i>ipaddr1</i>	IP address
<i>macaddr</i>	MAC address
vlan	VLAN
<i>vlanid</i>	VLAN id
interface	interface
<i>interface1</i>	interface

## Command Mode

- /exec/configure

## ip ssh source-interface

[no] ip ssh source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ssh	Configure ssh
source-interface	Configure source interface feature for domain-lookup
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec/configure

# ip sticky-arp

{ ip sticky-arp [ ignore ] | no ip sticky-arp ignore }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
sticky-arp	Configure sticky ARP
ignore	(Optional) Ignore previously configured sticky ARP

## Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

## ip summary-address eigrp

```
{ [ no ] ip summary-address eigrp <eigrp-ptag> { { <address> <mask> } | { <prefix> } } [ <distance> ] [
leak-map <leak-map> ] | [ no ] ipv6 summary-address eigrp <eigrp-ptag> <ipv6-prefix> [ <distance> ] [
leak-map <leak-map> ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
summary-address	Configures IP-EIGRP summary address on interface
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>address</i>	IP address
<i>mask</i>	IP network mask
<i>prefix</i>	IP prefix in slash format
<i>distance</i>	(Optional) Administrative distance
leak-map	(Optional) Allow dynamic prefixes based on the leak-map
<i>leak-map</i>	(Optional) leak-map name
<i>eigrp-ptag</i>	

### Command Mode

- /exec/configure/if-igp

# ip tacacs source-interface

[no] ip tacacs source-interface | ip tacacs source-interface <interface>

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
tacacs	Tacacs server
source-interface	Source interface to be used to reach tacacs server
<i>interface</i>	Interface Description

## Command Mode

- /exec/configure

# ip tcp path-mtu-discovery

{ { ip tcp path-mtu-discovery } | { no ip tcp path-mtu-discovery } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
tcp	Global TCP parameters
path-mtu-discovery	Enable path-MTU discovery on TCP

## Command Mode

- /exec/configure /exec/configure/config-mgmt



# ip tcp synwait-time

{ { no ip tcp synwait-time } | { ip tcp synwait-time <time> } }

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
tcp	Global TCP parameters
synwait-time	Set time to wait on new TCP connections
<i>time</i>	Wait time

## Command Mode

- /exec/configure /exec/configure/config-mgmt

## ip telnet source-interface

[no] ip telnet source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
telnet	Configure telnet
source-interface	Configure source interface feature for domain-lookup
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec/configure

## ip tftp source-interface

[no] ip tftp source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
tftp	Configure TFTP client
source-interface	Configure source interface feature for TFTP client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec/configure

## ip traceroute source-interface

[no] ip traceroute source-interface <ifnum> [ vrf { <vrf-name> | <vrf-known-name> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
traceroute	Configure traceroute client
source-interface	Configure source interface feature for traceroute
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec/configure

# ip unnumbered

ip unnumbered <interface> | no ip unnumbered [ <interface> ]

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
unnumbered	Configure interface as unnumbered
<i>interface</i>	Interface with IP address

## Command Mode

- /exec/configure/if-te

# ip unreachable

[no] ip unreachable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
unreachables	Enable sending ICMP unreachable (other than port-unreachable)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

# ip verify source dhcp-snooping-vlan

[no] ip verify source dhcp-snooping-vlan

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
verify	Configure Unicast Reverse Path Forwarding or IP Source Guard
source	IP Source Guard related commands
dhcp-snooping-vlan	Vlans on which snooping is enabled

## Command Mode

- /exec/configure/if-switching

# ip verify unicast source reachable-via

[no] ip verify unicast source reachable-via { rx | any [ allow-default ] } [ policy { <policy-name> | <acl\_pol\_name> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
verify	Configure Unicast Reverse Path Forwarding or IP Source Guard
unicast	Unicast Reverse Path Forwarding
source	Validation of source address
reachable-via	Specify reachability check to apply to the source address
rx	Source is reachable via interface on which packet was received
any	Source is reachable via any interface
allow-default	(Optional) Loose Default Route Unicast Reverse Path Forwarding
policy	(Optional) Unicast Reverse Path Forwarding fail policy
<i>policy-name</i>	(Optional) An uRPF fail policy name
<i>acl_pol_name</i>	(Optional)

## Command Mode

- /exec/configure/if-igp



# ipv6

[no] { ipv6 | ip } router rip <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
router	Enable a routing process
rip	Routing Information Protocol (RIP)
<i>tag</i>	Process tag

## Command Mode

- /exec/configure/if-igp

# ipv6

ipv6 [ nd ] redirects | no ipv6 [ nd ] redirects

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	(Optional) ICMPv6 Neighbor Discovery commands
redirects	Enable sending ICMPv6 Redirect messages

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

# ipv6

[no] ipv6 [ icmp ] unreachable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
unreachables	Enable sending ICMPv6 Unreachable messages (port-unreachables are always rate-limit enabled)

## Command Mode

- /exec/configure/if-igp

# ipv6

```
{ { ipv6 [ icmp ] adjacency-stale-timer <stale-time> } | { no ipv6 [ icmp ] adjacency-stale-timer [ <stale-time> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) Configure icmp parameters
adjacency-stale-timer	When probing for an adjacency begins
<i>stale-time</i>	Seconds after adjacency uptime

## Command Mode

- /exec/configure

# ipv6

[no] { ipv6 | ip } rip poison-reverse

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
poison-reverse	RIP poison reverse (default split-horizon)

## Command Mode

- /exec/configure/if-igp

# ipv6

[no] { ipv6 | ip } rip passive-interface

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
passive-interface	RIP passive interface

## Command Mode

- /exec/configure/if-igp

# ipv6

{ ipv6 | ip } rip { metric-offset | offset-list } <metric> | no { ipv6 | ip } rip { metric-offset | offset-list } [ <metric> ]

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
metric-offset	RIP metric for interface
offset-list	RIP metric for interface
<i>metric</i>	RIP metric value

## Command Mode

- /exec/configure/if-igp

# ipv6

[no] { ipv6 | ip } rip route-filter { route-map <map> | prefix-list <list> } { in | out }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
route-filter	RIP route filtering
route-map	route-map policy to constrain route filtering
prefix-list	prefix-list policy to constrain route filtering
<i>map</i>	Route-map name
<i>list</i>	prefix-list name
in	inbound
out	outbound

### Command Mode

- /exec/configure/if-igp



# ipv6 access-class

[no] ipv6 access-class <name> <inout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
access-class	Specify IPv6 access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

## Command Mode

- /exec/configure/line

# ipv6 access-list

[no] ipv6 access-list <name> [ client <clienttype> <clientID> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

## Command Mode

- /exec/configure

# ipv6 access-list match-local-traffic

[no] ipv6 access-list match-local-traffic | ipv6 access-list match-local-traffic

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
access-list	Configure access list
match-local-traffic	Enable access-list matching for locally generated traffic

## Command Mode

- /exec/configure

# ipv6 address

[no] ipv6 address [ <ipv6-prefix> [ eui64 ] [ route-preference <pref> ] [ tag <tag> ] [ anycast ] ] | ipv6 address <ipv6-prefix> [ eui64 ] [ route-preference <pref> ] [ tag <tag> ] [ anycast ]

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
eui64	(Optional) Configure Extended Unique Identifier for the low-order 64 bits
anycast	(Optional) Configure IPv6 anycast address on interface
route-preference	(Optional) U6RIB route preference for local/direct routes
<i>pref</i>	(Optional) Local/direct route preference
tag	(Optional) U6RIB route tag value for local/direct routes
<i>tag</i>	(Optional) Local/direct tag value

### Command Mode

- /exec/configure/if-igp /exec/configure/if-any-tunnel /exec/configure/if-vsant /exec/configure/if-mgmt-config

# ipv6 address

ipv6 address <ipv6-prefix> [ eui64 ] secondary

## Syntax Description

ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
eui64	(Optional) Configure Extended Unique Identifier for the low-order 64 bits
secondary	Configures additional addresses on interface

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsan

# ipv6 adjacency

```
[no] ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * }
peer-gmac
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
*	for all adjacencies in this context
peer-gmac	Set/clear the peer-gmac bit

## Command Mode

- /exec/configure

# ipv6 adjacency

```
[no] ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * }
remote-adj
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
*	for all adjacencies in this context
remote-adj	Set/clear the remote-adj bit

## Command Mode

- /exec/configure

# ipv6 adjacency

ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { \* | <ipv6-addr> } | \* } forcedownload

## Syntax Description

ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
*	for all adjacencies in this context
forcedownload	Create consistency in UFDM

## Command Mode

- /exec/configure



## ipv6 adjacency l2fm-reg

[no] ipv6 adjacency l2fm-reg { [ vrf <vrf-known-name> ] | <interface> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
l2fm-reg	Register with l2fm
vrf	(Optional) vrf name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Interface name

### Command Mode

- /exec/configure

## ipv6 adjacency route distance

{ ipv6 adjacency route distance <pref> } | { no ipv6 adjacency route distance }

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
route	route
distance	admin-distance
<i>pref</i>	preference

### Command Mode

- /exec/configure

# ipv6 amt gateway

[no] ipv6 amt gateway

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
gateway	Configures IPv6 AMT gateway functionality

## Command Mode

- /exec/configure /exec/configure/vrf

# ipv6 amt gateway send-discovery

[no] ipv6 amt gateway send-discovery

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
gateway	Configures IPv6 AMT gateway functionality
send-discovery	Trigger a Discovery message to the Anycast address

## Command Mode

- /exec/configure /exec/configure/vrf

# ipv6 amt relay

[no] ipv6 amt relay

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
relay	Configures IPv6 AMT relay functionality

## Command Mode

- /exec/configure /exec/configure/vrf

# ipv6 cache disable

[no] ipv6 cache disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
cache	Disable cache
disable	Disable cache

## Command Mode

- /exec/configure

# ipv6 dad

ipv6 dad { skip-results | force-dad | address <ipv6-prefix> } | no ipv6 dad skip-results

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
dad	Duplicate Address Detection
skip-results	Skip DAD results
force-dad	Does force DAD on given interface
address	Address to verify duplicate address in LAN

## Command Mode

- /exec/configure/if-igp

# ipv6 dhcp relay

[no] ipv6 dhcp relay

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent

## Command Mode

- /exec/configure



# ipv6 dhcp relay address

ipv6 dhcp relay address <ip-addr-val> [ use-vrf <vrf-name> ] [ interface <interface-name> ] | ipv6 dhcp relay address <ip-addr-val> [ interface <interface-name> ] [ use-vrf <vrf-name> ]

## Syntax Description

ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
address	Configure DHCPv6 server relay address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the relay address
<i>interface-name</i>	(Optional) Destination interface

## Command Mode

- /exec/configure/if-igp

## ipv6 dhcp relay address

[no] ipv6 dhcp relay address [ <ip-addr-val> [ use-vrf <vrf-name> ] [ interface <interface-name> ] ] | no ipv6 dhcp relay address [ <ip-addr-val> [ interface <interface-name> ] [ use-vrf <vrf-name> ] ]

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
address	Configure DHCPv6 server relay address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the relay address
<i>interface-name</i>	(Optional) Destination interface

### Command Mode

- /exec/configure/if-igp

# ipv6 dhcp relay option type cisco

[no] ipv6 dhcp relay option type cisco

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	DHCPv6 relay agent parameters
option	Relay agent option
type	Relay agent option type
cisco	Use Cisco proprietary options

## Command Mode

- /exec/configure

## ipv6 dhcp relay option vpn

[no] ipv6 dhcp relay option vpn

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	DHCPv6 relay agent parameters
option	Insert DHCPv6 relay information in Relay forward
vpn	Enable DHCPv6 relay support across VRFs

### Command Mode

- /exec/configure

# ipv6 dhcp relay source-interface

ipv6 dhcp relay source-interface <interface-name>

## Syntax Description

ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
source-interface	Configure source interface for DHCPv6 relay
<i>interface-name</i>	Source interface

## Command Mode

- /exec/configure /exec/configure/if-igp

# ipv6 dhcp relay source-interface

[no] ipv6 dhcp relay source-interface

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
source-interface	Configure source interface for DHCPv6 relay

## Command Mode

- /exec/configure /exec/configure/if-igp

# ipv6 flood unknown ucast

[no] ipv6 flood unknown ucast

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
flood	Enable flood unknown ucast
unknown	Enable flood unknown ucast
uicast	Enable flood unknown ucast

## Command Mode

- /exec/configure

## ipv6 flow monitor

```
[no] ipv6 flow monitor <monitorname> { input | output } [ sampler <samplername> ]
```

### Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

### Command Mode

- /exec/configure/if-routing /exec/configure/if-mgmt-ether /exec/configure/if-any-tunnel  
/exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p



# ipv6 flow monitor

[no] ipv6 flow monitor <monitorname> { input | output } [ sampler <samplername> ]

## Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/vlan

## ipv6 flow monitor

[no] ipv6 flow monitor <monitorname> input [ sampler <samplername> ]

### Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

### Command Mode

- /exec/configure/vlan-config

# ipv6 flow monitor

ipv6 flow monitor <monitorname> output [ sampler <samplername> ]

## Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/vlan-config

# ipv6 flow monitor

[no] ipv6 flow monitor <monitorname> output [ sampler <samplername> ]

## Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/vlan-config

# ipv6 flow monitor

[no] ipv6 flow monitor <monitorname> { input | output } [ sampler <samplername> ]

## Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
output	Apply Flow Monitor on output traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/if-vlan-common

# ipv6 forward

ipv6 forward | no ipv6 forward

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
forward	Enable ipv6 forwarding on interface

## Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range

# ipv6 host

[no] ipv6 host <s0> <ipv6\_0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
host	Add an entry to the ip hostname table
s0	Name of Host

## Command Mode

- /exec/configure

## ipv6 icmp vip

[no] ipv6 icmp vip <ipv6-addr> vmac <mac-addr> protocol <prot> group <id>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	ICMPv6 commands
vip	Virtual IPv6 address
vmac	Virtual MAC address
<i>mac-addr</i>	Layer-2 MAC address
protocol	FHRP protocol
<i>prot</i>	HSRP VRRP GLBP
group	Group id
<i>id</i>	Group id

### Command Mode

- /exec/configure/if-igp



# ipv6 nd cache limit

```
{ { ipv6 nd cache limit <max> } | { no ipv6 nd cache limit } } [ syslog <rate> ]
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
cache	ND cache parameters
limit	Limit size of ND adjacencies cache
<i>max</i>	Max no of ND adjacencies configured
syslog	(Optional) Syslog messages
<i>rate</i>	(Optional) Syslogs per second

## Command Mode

- /exec/configure

## ipv6 nd dad attempts

ipv6 nd dad attempts <attempt> | no ipv6 nd dad attempts

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
dad	Duplicate Address Detection
attempts	Set IPv6 Duplicate Address Detection Transmits
<i>attempt</i>	Number of attempts

### Command Mode

- /exec/configure/if-igp

## ipv6 nd hop-limit

```
{ { ipv6 nd hop-limit <hop-limit> } | { no ipv6 nd hop-limit [ <hop-limit> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
hop-limit	Sent in RA messages, tells hosts what hop-limit to use when originating IPv6 packets
<i>hop-limit</i>	Hop limit in IPv6 header

### Command Mode

- /exec/configure/if-igp

## ipv6 nd limit-incomplete-adjacency

```
{ { ipv6 nd limit-incomplete-adjacency <count> } | { no ipv6 nd limit-incomplete-adjacency [ <count> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
limit-incomplete-adjacency	Number of incomplete adjacencies
<i>count</i>	Count

### Command Mode

- /exec/configure

## ipv6 nd limit\_threshold\_am\_queue

```
{ { ipv6 nd limit_threshold_am_queue <count> } | { no ipv6 nd limit_threshold_am_queue [ <count> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
limit_threshold_am_queue	Threshold AM queue
<i>count</i>	Count

### Command Mode

- /exec/configure

## ipv6 nd mac-extract

[no] ipv6 nd mac-extract [ exclude nud-phase ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
mac-extract	Extract next hop MAC address embedded in IPV6 address
exclude	(Optional) Exclude
nud-phase	(Optional) during NUD phase

### Command Mode

- /exec/configure/if-igp

# ipv6 nd managed-config-flag

[no] ipv6 nd managed-config-flag

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
managed-config-flag	Sent in RA messages, tells hosts to use stateful address auto-configuration to obtain address information

## Command Mode

- /exec/configure/if-igp

# ipv6 nd mtu

```
{ { ipv6 nd mtu <mtu> } | { no ipv6 nd mtu [ <mtu> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
mtu	Sent in RA messages, tells hosts what MTU to use on this link
<i>mtu</i>	MTU in bytes

## Command Mode

- /exec/configure/if-igp



## ipv6 nd ns-interval

```
{ { ipv6 nd ns-interval <interval> [ <retry-count> ] } | { no ipv6 nd ns-interval [ <interval> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ns-interval	Retransmission interval between sending Neighbor-Solicitation messages
<i>interval</i>	Interval in milliseconds
<i>retry-count</i>	(Optional) NS Retry count

### Command Mode

- /exec/configure/if-igp

## ipv6 nd off-list timeout

{ ipv6 nd off-list timeout <time> } | { no ipv6 nd off-list timeout }

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	Display Neighbor Discovery interface information
off-list	off-list
timeout	Expire time
<i>time</i>	Expire time value in seconds

### Command Mode

- /exec/configure

# ipv6 nd other-config-flag

[no] ipv6 nd other-config-flag

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
other-config-flag	Sent in RA messages, tells hosts to use stateful auto-configuration to obtain non-address related information

## Command Mode

- /exec/configure/if-igp

# ipv6 nd prefix

```
{ { ipv6 nd prefix <prefix> [ { <val-life> | infinite } { <perf-life> | infinite } [ [ no-autoconfig ] [ no-onlink ] [ no-rtr-address ] [ off-link ] ] | no-advertise ] } | { no ipv6 nd prefix <prefix> } }
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
prefix	IPv6 Prefix to advertise in RA
<i>val-life</i>	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
<i>perf-life</i>	(Optional) Preferred Lifetime (secs)
infinite	(Optional) Infinite Preferred Lifetime
no-autoconfig	(Optional) Do not use prefix for autoconfiguration
no-onlink	(Optional) Do not use prefix for onlink determination
no-rtr-address	(Optional) Do not send full router address in prefix advert
off-link	(Optional) Prefix is offlink

## Command Mode

- /exec/configure/if-igp

# ipv6 nd prefix default

```
{ { ipv6 nd prefix default [ { <val-life> | infinite } { <perf-life> | infinite } [ [ no-autoconfig ] [ no-onlink ] [ no-rtr-address ] [ off-link ] ] | no-advertise ] } | { no ipv6 nd prefix default } }
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
prefix	IPv6 Prefix to advertise in RA
default	Specify prefix default parameters
<i>val-life</i>	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
<i>perf-life</i>	(Optional) Preferred Lifetime (secs)
infinite	(Optional) Infinite Preferred Lifetime
no-autoconfig	(Optional) Do not use prefix for autoconfiguration
no-onlink	(Optional) Do not use prefix for onlink determination
no-rtr-address	(Optional) Do not send full router address in prefix advert
off-link	(Optional) Prefix is offlink

## Command Mode

- /exec/configure/if-igp

## ipv6 nd process adjacency statistics

[no] ipv6 nd process adjacency statistics

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
process	Process Adjacency Statistics
adjacency	Adjacency
statistics	Statistics

### Command Mode

- /exec/configure

# ipv6 nd ra-interval

ipv6 nd ra-interval <interval> [ min <min-interval> ] | no ipv6 nd ra-interval [ <interval> ] [ min <min-interval> ]

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra-interval	Interval between sending Router-Advertisement messages
<i>interval</i>	Interval in seconds
min	(Optional) Minimum interval between sending RA messages
<i>min-interval</i>	(Optional) Interval in seconds

## Command Mode

- /exec/configure/if-igp

## ipv6 nd ra-lifetime

```
{ { ipv6 nd ra-lifetime <lifetime> } | { no ipv6 nd ra-lifetime [ <lifetime> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra-lifetime	Sent in RA messages, Router Lifetime of a default router, 0 means this router will not be the default router
<i>lifetime</i>	Lifetime in seconds

### Command Mode

- /exec/configure/if-igp



# ipv6 nd ra dns search-list

[no] ipv6 nd ra dns search-list <dnssl> [ { <dnssl\_life> | infinite } ] sequence <seqno>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
<i>dnssl</i>	Configure DNS Search List to advertise in RA
<i>dnssl_life</i>	(Optional) Configure IPv6 DNS Search list life time
infinite	(Optional) Configure IPv6 DNS Search list life time with infinite
sequence	Sequence of Search List
<i>seqno</i>	Sequence number

## Command Mode

- /exec/configure/if-igp

# ipv6 nd ra dns search-list suppress

[no] ipv6 nd ra dns search-list suppress

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
suppress	Disable sending DNSSL in Router-Advertisement messages

## Command Mode

- /exec/configure/if-igp

# ipv6 nd ra dns server

[no] ipv6 nd ra dns server <ipv6\_addr> [ { <rdnss\_life> | infinite } ] sequence <seqno>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
<i>rdnss_life</i>	(Optional) Configure IPv6 DNS Server life time
infinite	(Optional) Configure IPv6 DNS Server life time with infinite
sequence	Sequence of Server
<i>seqno</i>	Sequence number

## Command Mode

- /exec/configure/if-igp

## ipv6 nd ra dns server suppress

[no] ipv6 nd ra dns server suppress

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
suppress	Disable sending RDNSS in Router-Advertisement messages

### Command Mode

- /exec/configure/if-igp

# ipv6 nd reachable-time

```
{ { ipv6 nd reachable-time <time> } | { no ipv6 nd reachable-time [ <time> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
reachable-time	Sent in RA messages, advertised time when a node considers a neighbor up after receiving a reachability confirmation
<i>time</i>	Time in milliseconds

## Command Mode

- /exec/configure/if-igp

## ipv6 nd retrans-timer

```
{ { ipv6 nd retrans-timer <time> } | { no ipv6 nd retrans-timer [ <time> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
retrans-timer	Sent in RA messages, advertised time between NS messages
<i>time</i>	Time in milliseconds

### Command Mode

- /exec/configure/if-igp

# ipv6 nd solicit-na

```
{ ipv6 nd solicit-na { { accept [ no-probe | <interval> ] | [ no-accept ] } | { accept1 [ no-probe1 | <interval1> ] | [ no-accept1 ] } } } | { no ipv6 nd solicit-na }
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
solicit-na	Solicited Neighbor Advertisemen
accept	Accept Solicit NA without incomplete entry
no-probe	(Optional) Do not probe, create a Reachable Entry
<i>interval</i>	(Optional) Probe Interval in Seconds
no-accept	(Optional) Do not accept Solicit NA without incomplete entry
accept1	Accept Solicit NA without incomplete entry
no-probe1	(Optional) Do not probe, create a Reachable Entry
<i>interval1</i>	(Optional) Probe Interval in Seconds
no-accept1	(Optional) Do not accept Solicit NA without incomplete entry

## Command Mode

- /exec/configure

## ipv6 nd suppress-ra

[no] ipv6 nd suppress-ra [ mtu ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
suppress-ra	Disable sending Router-Advertisement messages
mtu	(Optional) Disable sending MTU in Router-Advertisement messages

### Command Mode

- /exec/configure/if-igp



# ipv6 nd synchronize

ipv6 nd synchronize [ pull | push ]

## Syntax Description

ipv6	Configure IPv6 features
nd	Display Neighbor Discovery interface information
synchronize	CFS synchronize
pull	(Optional) Initiate CFS pull request
push	(Optional) Initiate CFS push message

## Command Mode

- /exec

## ipv6 policy route-map

```
ipv6 policy route-map <route-map-name> | no ipv6 policy route-map [ <route-map-name> | <route-map-name> ]
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
policy	Configure PBR feature
route-map	Route-map for PBR
<i>route-map-name</i>	
<i>route-map-name</i>	(Optional)
<i>route-map-name</i>	(Optional)

### Command Mode

- /exec/configure/if-igp

# ipv6 port traffic-filter

[no] ipv6 port traffic-filter <name> <inout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
port	Port policy
traffic-filter	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

## Command Mode

- /exec/configure/if-set-acl-l2

## ipv6 prefix-list

```
{ ipv6 prefix-list <ipv6-pfl-name> seq <seq> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } } | { no ipv6 prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } seq <seq> [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } } }
```

### Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
prefix-list	Build a prefix list
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length

### Command Mode

- /exec/configure

# ipv6 prefix-list

```
{ ipv6 prefix-list <ipv6-pfl-name> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } } | { no ipv6 prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } } }
```

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
prefix-list	Build a prefix list
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
permit	Specify routes to forward
deny	Specify routes to reject
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length

## Command Mode

- /exec/configure

# ipv6 prefix-list

{ ipv6 prefix-list <ipv6-pfl-name> description <line> } | { no ipv6 prefix-list <ipv6-pfl-name> description }

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
prefix-list	Build a prefix list
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
description	Description of the IPv6 prefix list
<i>line</i>	IPv6 prefix-list description string

## Command Mode

- /exec/configure

# ipv6 queue-packets-limit

[no] ipv6 queue-packets-limit [ <limit> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
queue-packets-limit	Maximum number of queue packets for unresolved NDS
<i>limit</i>	(Optional) Unresolved ND queue packet limit

## Command Mode

- /exec/configure

# ipv6 queue-packets

[no] ipv6 queue-packets

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
queue-packets	Queue 1 packet when triggered NS is sent

## Command Mode

- /exec/configure



# ipv6 repopulate internal context array

ipv6 repopulate internal context array

## Syntax Description

ipv6	Configure IPv6 features
repopulate	Repopulate internal data structure
internal	Commands for internal use
context	repopulate context related info
array	arrays which stores context ptrs

## Command Mode

- /exec

# ipv6 route

```
[no] ipv6 route <ipv6-prefix> { <interface> | { { <link-local> <interface-link-local> } | { <pin-interface>
<next-hop> } | { <next-hop> | <nh-prefix> } | { <vlan-interface> } } [ vrf { <vrf-name> | <vrf-known-name>
} ] ] [ track <object-num> ] [ name <rt-name> ] [ <pref> | tag <tag-value> ] +
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
route	Configure IPv6 unicast static route
<i>interface</i>	Interface for interface static routes
<i>vlan-interface</i>	vlan interface
name	(Optional) Specify name of the next hop
<i>rt-name</i>	(Optional) Name of next hop
<i>pin-interface</i>	Pin interface
<i>interface-link-local</i>	Interface for interface static routes
track	(Optional) Specify the Object to be Tracked
<i>object-num</i>	(Optional) Track Object Number
vrf	(Optional) VRF for next-hop if different from this vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>pref</i>	(Optional) Route preference
tag	(Optional) Supply tag value with static route
<i>tag-value</i>	(Optional) 32-bit value for tag

## Command Mode

- /exec/configure /exec/configure/vrf

## ipv6 route static bfd

[no] ipv6 route static bfd <pin-interface> <next-hop>

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IP features
route	Route information
static	Static route based configuration
bfd	Enable bfd detection on static route
<i>pin-interface</i>	Interface on which bfd has to be enabled

### Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

# ipv6 router isis

[no] ipv6 router isis <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
router	Enable a routing process
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Process tag

## Command Mode

- /exec/configure/if-igp

## ipv6 router ospfv3

[no] ipv6 router ospfv3 <tag> area { <area-id-ip> | <area-id-int> } [ secondaries none ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
router	Enable a routing process
ospfv3	OSPFv3 configuration commands
<i>tag</i>	Process tag
area	Area associated with interface
<i>area-id-ip</i>	OSPFv3 area ID in IP address format
<i>area-id-int</i>	OSPFv3 area ID as a decimal format
secondaries	(Optional) Do not include secondary IPv6 addresses
none	(Optional) Do not include secondary IPv6 addresses

### Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ipv6 router ospfv3

[no] ipv6 router ospfv3 <tag> multi-area <area-id-ip>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
router	Enable a routing process
ospfv3	OSPFv3 configuration commands
<i>tag</i>	Process tag
multi-area	Multi-Area associated with interface
<i>area-id-ip</i>	Area Id as an integer or ip address

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ipv6 routing event-history

[no] ipv6 routing event-history { <u6rib-event-hist> | <u6rib-event-hist-hid> } size { <size\_in\_text> | <size\_in\_bytes> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
routing	Routing information
event-history	Configure routing event log
<i>u6rib-event-hist</i>	Configure routing event log
<i>u6rib-event-hist-hid</i>	Configure routing event log
size	Size of buffer
<i>size_in_text</i>	Buffer size
<i>size_in_bytes</i>	Enter an integer value for the event history buffer

## Command Mode

- /exec/configure

# ipv6 routing multicast software-replication

[no] ipv6 routing multicast software-replication

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
routing	Routing information
multicast	Configure multicast
software-replication	Enable software replication of PIM ASM leak packets

## Command Mode

- /exec/configure



# ipv6 source-route

[no] ipv6 source-route [ rh0 ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
source-route	Process IPv6 Routing Header
rh0	(Optional) Process IPv6 Routing Header - Type 0 (RH0)

## Command Mode

- /exec/configure

# ipv6 switch-packets

[no] ipv6 switch-packets [ lla ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
switch-packets	Switch ND packets received on core ports
lla	(Optional) Switch ND packets targeted to Link local address on core ports

## Command Mode

- /exec/configure

# ipv6 traffic-filter

[no] ipv6 traffic-filter <name> <inout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
traffic-filter	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

## Command Mode

- /exec/configure/if-set-acl-l3

## ipv6 verify unicast source reachable-via

[no] ipv6 verify unicast source reachable-via { rx | any [ allow-default ] }

### Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
verify	Unicast Reverse Path Forwarding
unicast	Unicast Reverse Path Forwarding
source	Validation of source address
reachable-via	Specify reachability check to apply to the source address
rx	Source is reachable via interface on which packet was received
any	Source is reachable via any interface
allow-default	(Optional) Loose Default Route Unicast Reverse Path Forwarding

### Command Mode

- /exec/configure/if-igp

# ipv6 vip

[no] ipv6 vip <ipv6-addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
vip	Virtual IPv6 address

## Command Mode

- /exec/configure/if-igp

# is-type

is-type <is-type> | no is-type [ <is-type> ]

## Syntax Description

no	Negate a command or set its defaults
is-type	IS type for this IS-IS process
<i>is-type</i>	IS-IS IS type

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# ishow cli find nodes

ishow cli find nodes [ <component> ] [ recurse ]

## Syntax Description

ishow	Show internal information
cli	Show CLI information
find	
nodes	display
<i>component</i>	(Optional) display
recurse	(Optional) go

## Command Mode

- /exec

# ishow cli modes

ishow cli modes

## Syntax Description

ishow	Show internal information
cli	Show CLI information
modes	show

## Command Mode

- /exec



# ishow cli nodes

ishow cli nodes [ <mode> ]

## Syntax Description

ishow	Show internal information
cli	Show CLI information
nodes	show
<i>mode</i>	(Optional) mode

## Command Mode

- /exec

# ishow cli paths

ishow cli paths <component> [ <type> ]

## Syntax Description

ishow	Show internal information
cli	Show CLI information
paths	show
<i>component</i>	component
<i>type</i>	(Optional)

## Command Mode

- /exec

# ishow cli tags

ishow cli tags

## Syntax Description

ishow	Show internal information
cli	Show CLI information
tags	

## Command Mode

- /exec

# ishow core

ishow core <pid> backtrace

## Syntax Description

ishow	Show internal information
core	display info from core file
<i>pid</i>	PID from 'show cores
backtrace	display backtrace -- needs enough space to unzip the core file!

## Command Mode

- /exec

# isis authentication-check

[no] isis authentication-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos

## Command Mode

- /exec/configure/if-p2p

# isis authentication-check level-1

[no] isis authentication-check level-1

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos
level-1	Configure authentication check for level-1 IIHs

## Command Mode

- /exec/configure/if-ma

## isis authentication-check level-2

[no] isis authentication-check level-2

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos
level-2	Configure authentication check for level-2 IIHs

### Command Mode

- /exec/configure/if-ma

# isis authentication-type

```
{ isis authentication-type { cleartext | md5 } | no isis authentication-type [ { cleartext | md5 } ] }
```

## Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-type	Set hello authentication type
cleartext	Cleartext
md5	HMAC-MD5

## Command Mode

- /exec/configure/if-p2p



# isis authentication-type

```
{ isis authentication-type { cleartext | md5 } <level> | no isis authentication-type [ { cleartext | md5 } ] <level>
}
```

## Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-type	Set hello authentication type
cleartext	Cleartext
md5	HMAC-MD5
<i>level</i>	IS-IS level

## Command Mode

- /exec/configure/if-ma

## isis authentication key-chain

```
{ isis authentication key-chain <auth-keychain> | no isis authentication key-chain [ <auth-keychain> ] }
```

### Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication	Set hello authentication keychain
key-chain	Set hello authentication keychain
<i>auth-keychain</i>	authentication keychain

### Command Mode

- /exec/configure/if-p2p

# isis authentication key-chain

```
{ isis authentication key-chain <auth-keychain> <level> | no isis authentication key-chain [ <auth-keychain> ] <level> }
```

## Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication	Set hello authentication keychain
key-chain	Set hello authentication keychain
<i>auth-keychain</i>	authentication keychain
<i>level</i>	IS-IS level

## Command Mode

- /exec/configure/if-ma

# isis bfd

[no] isis bfd [ disable ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
bfd	Interface BFD configuration
disable	(Optional) Disable BFD on interface

## Command Mode

- /exec/configure/if-igp

# isis circuit-type

isis circuit-type <circuit-type> | no isis circuit-type [ <circuit-type> ]

## Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
circuit-type	Configure circuit type for interface
<i>circuit-type</i>	IS-IS circuit type

## Command Mode

- /exec/configure/if-igp

# isis csnp-interval

[no] isis csnp-interval <sec> { level-1 | level-2 }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
csnp-interval	Set CSNP interval in seconds
<i>sec</i>	CSNP interval value
level-1	Specify interval for level-1 CSNPs
level-2	Specify interval for level-2 CSNPs

## Command Mode

- /exec/configure/if-igp

## isis event-history adjacency

[no] isis event-history adjacency { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
adjacency	Adjacency events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history cli

```
[no] isis event-history cli { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
cli	CLI events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common



## isis event-history csnp

[no] isis event-history csnp { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
csnp	CSNP events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history dis

[no] isis event-history dis { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
dis	Dis events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# isis event-history events

[no] isis event-history events { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
events	Events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# isis event-history graceful

[no] isis event-history graceful { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
graceful	Graceful Restart events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history ha

[no] isis event-history ha { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
ha	HA events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history iih

[no] isis event-history iih { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
iih	IIH events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history lsp-flood

[no] isis event-history lsp-flood { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
lsp-flood	LSP-flood events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# isis event-history lsp-gen

[no] isis event-history lsp-gen { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
lsp-gen	LSP-Gen events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common



## isis event-history mtr

[no] isis event-history mtr { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
mtr	MTR events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history psnp

[no] isis event-history psnp { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
psnp	PSNP events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# isis event-history redist

[no] isis event-history redist { size { <size\_in\_text> | <size\_in\_kbytes> } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
redist	Redist events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history spf-leaf

[no] isis event-history spf-leaf { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
spf-leaf	Shortest path first events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history spf-tree

```
[no] isis event-history spf-tree { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
spf-tree	SPF-Tree events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history tlv

```
[no] isis event-history tlv { size { <size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
tlv	TLV events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## isis event-history urib

[no] isis event-history urib { size { <size\_in\_text> | <size\_in\_kbytes> } }

### Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
urib	URIB events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# isis hello-interval

[no] isis hello-interval <sec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-interval	Set Hello interval in seconds
<i>sec</i>	Hello interval value

## Command Mode

- /exec/configure/if-p2p



# isis hello-interval

[no] isis hello-interval <sec> { level-1 | level-2 }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-interval	Set Hello interval in seconds
<i>sec</i>	Hello interval value
level-1	Specify hello-interval for level-1 IIHs
level-2	Specify hello-interval for level-2 IIHs

## Command Mode

- /exec/configure/if-ma

# isis hello-multiplier

[no] isis hello-multiplier <multi>

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-multiplier	Set multiplier for Hello holding time
<i>multi</i>	Hello multiplier value

## Command Mode

- /exec/configure/if-p2p

# isis hello-multiplier

[no] isis hello-multiplier <multi> { level-1 | level-2 }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-multiplier	Set multiplier for Hello holding time
<i>multi</i>	Hello multiplier value
level-1	Specify hello multiplier for level-1 IIHs
level-2	Specify hello multiplier for level-2 IIHs

## Command Mode

- /exec/configure/if-ma

# isis hello-padding

```
{ isis hello-padding | no isis hello-padding [ always ] }
```

## Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
hello-padding	Pad IS-IS hello PDUs to full MTU
always	(Optional) Pad every hello

## Command Mode

- /exec/configure/if-igp

# isis hello-padding always

isis hello-padding always

## Syntax Description

isis	IS-IS configuration commands
hello-padding	Pad IS-IS hello PDUs to full MTU
always	Pad every hello

## Command Mode

- /exec/configure/if-igp

# isis ipv6 bfd

[no] isis ipv6 bfd [ disable ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
ipv6	Enable BFD for ipv6
bfd	Interface BFD configuration
disable	(Optional) Disable BFD on interface

## Command Mode

- /exec/configure/if-igp

# isis ipv6 metric

[no] isis ipv6 metric <metric> <level>

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
metric	Configure metric for IPV6 topology
ipv6	Configure metric for IPV6 topology
<i>metric</i>	Default metric
<i>level</i>	IS-IS level

## Command Mode

- /exec/configure/if-igp /exec/configure/router-isis/router-isis-af-ipv6

# isis lsp-interval

[no] isis lsp-interval <msec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
lsp-interval	Set LSP transmission interval
<i>msec</i>	LSP transmission interval (milliseconds)

## Command Mode

- /exec/configure/if-igp



# isis mesh-group

```
{ isis mesh-group { blocked | <mesh-id> } | no isis mesh-group [ { blocked | <mesh-id> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
mesh-group	Set IS-IS mesh group
<i>mesh-id</i>	Mesh group number
blocked	Block LSPs on this interface

## Command Mode

- /exec/configure/if-igp

# isis metric

[no] isis metric <metric> <level>

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
metric	Configure the metric for interface
<i>metric</i>	Default metric
<i>level</i>	IS-IS level

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

# isis network point-to-point

[no] isis network point-to-point

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
network	Change interface medium to p2p
point-to-point	Change interface medium to p2p

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

# isis passive-interface

isis passive-interface <level> | no isis passive-interface [ <level> ] | default isis passive-interface [ <level> ]

## Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
passive-interface	Suppress IS-IS PDU
default	Undo a command
<i>level</i>	Level to suppress

## Command Mode

- /exec/configure/if-igp

# isis priority

[no] isis priority <priority> { level-1 | level-2 }

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
priority	Set priority for DIS election
<i>priority</i>	Priority value
level-1	Specify priority for level-1 routing
level-2	Specify priority for level-2 routing

## Command Mode

- /exec/configure/if-ma

# isis retransmit-interval

[no] isis retransmit-interval <sec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
retransmit-interval	Set per-LSP retransmission interval
<i>sec</i>	Interval between retransmissions of the same LSP (seconds)

## Command Mode

- /exec/configure/if-p2p

# isis retransmit-throttle-interval

[no] isis retransmit-throttle-interval <msec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
retransmit-throttle-interval	Set interface LSP retransmission interval
<i>msec</i>	Delay between retransmitted LSPs (milliseconds)

## Command Mode

- /exec/configure/if-p2p

# isis shutdown

[no] isis shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
shutdown	Graceful shutdown IS-IS functionality on the interface

## Command Mode

- /exec/configure/if-igp



# isolate

[no] isolate

## Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from RIP perspective

## Command Mode

- /exec/configure/router-rip

# isolate

[no] isolate

## Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from OSPFV3 perspective

## Command Mode

- /exec/configure/router-ospf3

# isolate

[no] isolate

## Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from BGP perspective

## Command Mode

- /exec/configure/router-bgp

# isolate

[no] isolate

## Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from EIGRP perspective

## Command Mode

- /exec/configure/router-eigrp

# isolate

[no] isolate

## Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from OSPF perspective

## Command Mode

- /exec/configure/router-ospf

# isolate

[no] isolate

## Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from ISIS perspective

## Command Mode

- /exec/configure/router-isis

# itd

{ itd <service-name> } | { no itd <service-name> }

## Syntax Description

no	Negate a command or set its defaults
itd	ITD service
<i>service-name</i>	ITD service-name

## Command Mode

- /exec/configure

# itd device-group

{ itd device-group <svc-name> } | { no itd device-group <svc-name> }

## Syntax Description

no	Negate a command or set its defaults
itd	ITD service
device-group	ITD device group
<i>svc-name</i>	service-name

## Command Mode

- /exec/configure



# itd statistics

```
{ itd statistics <service-name> } | { no itd statistics <service-name> }
```

## Syntax Description

no	Negate a command or set its defaults
itd	ITD service
statistics	ITD statistics
<i>service-name</i>	ITD service-name

## Command Mode

- /exec/configure





## J Commands

---

- [job name](#), on page 1848
- [json-pretty](#), on page 1849
- [json](#), on page 1850

# job name

[no] job name <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
job	Assign a job to the schedule
name	Assign a job to the schedule
s0	Specify the job name

## Command Mode

- /exec/configure/schedule

# json-pretty

json-pretty

## Syntax Description

	Pipe command output to filter
json-pretty	output in json pretty print format

## Command Mode

- /output

# json

json

## Syntax Description

	Pipe command output to filter
json	output in json format

## Command Mode

- /output



## K Commands

---

- [key-string](#), on page 1852
- [key-string 7](#), on page 1853
- [key](#), on page 1854
- [key chain](#), on page 1855
- [key config-key](#), on page 1856
- [kill-everyone](#), on page 1857
- [kill background](#), on page 1858

# key-string

{ key-string [ 0 ] <keystring> | no key-string }

## Syntax Description

no	Negate a command or set its defaults
key-string	Set key string
0	(Optional) Encryption Type - No Encryption(default)
<i>keystring</i>	key string

## Command Mode

- /exec/configure/keychain-key



# key-string 7

```
{ key-string 7 <keystring> }
```

## Syntax Description

key-string	Set key string
7	Encryption Type - Proprietary
<i>keystring</i>	key string

## Command Mode

- /exec/configure/keychain-key

# key

[no] key <keyid>

## Syntax Description

no	(Optional) Negate a command or set its defaults
key	Configure a key
<i>keyid</i>	Key identifier

## Command Mode

- /exec/configure/keychain

# key chain

[no] key chain <keychain>

## Syntax Description

no	(Optional) Negate a command or set its defaults
key	Key Management
chain	Keychain Management
<i>keychain</i>	key-chain name

## Command Mode

- /exec/configure

# key config-key

[no] key config-key { hex | ascii } [ <master-key> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
key	Encryption key for strong encryption
config-key	Master-key for strong encryption of secrets in config
hex	Key followed should be in hex format
ascii	Key followed should be in ascii format
<i>master-key</i>	(Optional) Enter the Master-key

## Command Mode

- /exec

# kill-everyone

no ] [ eigrp ] kill-everyone

## Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
kill-everyone	Kill all adjacencies on SIA

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# kill background

kill background <pid>

## Syntax Description

kill	terminate processes
background	kill background processes (started with 'source background <file>' command)
<i>pid</i>	background script to terminate, by process-id or just a regex matching any line from 'show background' command

## Command Mode

- /exec



## L Commands

---

- [l2rib dup-host-mac-detection](#), on page 1862
- [l2rib dup-host-mac-recovery](#), on page 1863
- [l2rib event-history](#), on page 1864
- [label allocate global](#), on page 1865
- [lacp fast-select-hot-standby](#), on page 1866
- [lacp port-priority](#), on page 1867
- [lacp rapid-transition](#), on page 1868
- [lacp rate](#), on page 1869
- [lacp rate](#), on page 1870
- [lacp system-priority](#), on page 1871
- [last](#), on page 1872
- [layer2-switched flow monitor](#), on page 1873
- [layer3 peer](#), on page 1874
- [ldap-search-map](#), on page 1875
- [ldap-search-map](#), on page 1876
- [ldap-server deadtime](#), on page 1877
- [ldap-server host](#), on page 1878
- [ldap-server port](#), on page 1880
- [ldap-server timeout](#), on page 1881
- [ldap search-map](#), on page 1882
- [license expiry check\\_interval](#), on page 1883
- [license grace-period](#), on page 1884
- [license grace-period days](#), on page 1885
- [license grace-period seconds](#), on page 1886
- [license grace period](#), on page 1887
- [license reserve count](#), on page 1888
- [limit-resource m4route-mem](#), on page 1889
- [limit-resource m6route-mem](#), on page 1890
- [limit-resource module-type](#), on page 1891
- [limit-resource monitor-session-erspan-dst minimum](#), on page 1892
- [limit-resource monitor-session-inband-src minimum](#), on page 1893
- [limit-resource monitor-session minimum](#), on page 1894
- [limit-resource port-channel minimum](#), on page 1895

- [limit-resource u4route-mem](#), on page 1896
- [limit-resource u6route-mem](#), on page 1897
- [limit-resource vlan minimum](#), on page 1898
- [limit-resource vrf minimum](#), on page 1899
- [line console](#), on page 1900
- [line console](#), on page 1901
- [line vty](#), on page 1902
- [line vty](#), on page 1903
- [link-management timers](#), on page 1904
- [link debounce](#), on page 1905
- [lisp-rig](#), on page 1906
- [list](#), on page 1907
- [list](#), on page 1908
- [listobject-boolean](#), on page 1909
- [listobject-weight](#), on page 1910
- [listobject](#), on page 1911
- [lldp](#), on page 1912
- [lldp eee](#), on page 1913
- [lldp receive](#), on page 1914
- [lldp tlv-select eee](#), on page 1915
- [lldp tlv-select management-address](#), on page 1916
- [lldp tlv-set management-address](#), on page 1917
- [lldp tlv-set management-address](#), on page 1918
- [lldp tlv-set vlan](#), on page 1919
- [lldp transmit](#), on page 1920
- [load-balance](#), on page 1921
- [load-balancing](#), on page 1922
- [load-interval](#), on page 1923
- [load-interval](#), on page 1924
- [load-interval counter](#), on page 1925
- [load](#), on page 1926
- [load](#), on page 1927
- [load](#), on page 1928
- [local-as](#), on page 1929
- [local-as](#), on page 1930
- [locator-led](#), on page 1931
- [lockdown](#), on page 1932
- [log-adjacency-changes](#), on page 1933
- [log-adjacency-changes](#), on page 1934
- [log-adjacency-changes](#), on page 1935
- [log-adjacency-changes](#), on page 1936
- [log-adjacency-changes](#), on page 1937
- [log-event-type](#), on page 1938
- [log-neighbor-changes](#), on page 1939
- [log-neighbor-changes](#), on page 1940
- [log-neighbor-warnings](#), on page 1941



- logging, on page 1942
- logging, on page 1943
- logging abort, on page 1944
- logging clear\_console, on page 1945
- logging distribute, on page 1946
- logging drop threshold, on page 1947
- logging event, on page 1948
- logging event port link-status, on page 1949
- logging event port link-status, on page 1950
- logging event port link-status, on page 1951
- logging event port link-status default, on page 1952
- logging event port trunk-status, on page 1953
- logging event port trunk-status, on page 1954
- logging event port trunk-status default, on page 1955
- logging flush, on page 1956
- logging invalid-username, on page 1957
- logging level, on page 1958
- logging level ethpm, on page 1959
- logging max\_messages, on page 1960
- logging message interface type ethernet, on page 1961
- logging reconcile, on page 1962
- logging source-interface, on page 1963
- logging timestamp, on page 1964
- login block-for, on page 1965
- login block-for, on page 1966
- login quiet-mode, on page 1967
- login quiet-mode access-class, on page 1968
- logit, on page 1969
- logout-warning, on page 1970
- low-memory exempt, on page 1971
- lshow, on page 1972
- lshow, on page 1973
- lsp-gen-interval, on page 1974
- lsp-mtu, on page 1975
- lsp-mtu, on page 1976
- lsp attributes, on page 1977

## l2rib dup-host-mac-detection

```
l2rib dup-host-mac-detection { default | <num-of-moves> <duration> }
```

### Syntax Description

l2rib	Layer 2 routing information base
dup-host-mac-detection	Set Duplicate-Host-MAC-Detection parameters
default	Default parameters (5 moves in 180 secs)
<i>num-of-moves</i>	Number of host moves to be allowed
<i>duration</i>	Duplicate detection timeout in secs for host moves

### Command Mode

- /exec/configure

## l2rib dup-host-mac-recovery

l2rib dup-host-mac-recovery { default | <timeout> <retry-count> | disable }

### Syntax Description

l2rib	Layer 2 routing information base
dup-host-mac-recovery	Set Duplicate-Host-MAC-Recovery (Unfreeze) parameters
default	Default parameters (30 secs unfreeze time and 3 retries)
<i>timeout</i>	Unfreeze timeout (secs)
<i>retry-count</i>	Unfreeze retry count
disable	Disable duplicate host MAC recovery (is enabled by default)

### Command Mode

- /exec/configure

## l2rib event-history

l2rib event-history { client-tbl | ead-pl | errors | mac | mac-ip | misc-obj | rmac | topology | tx-infra } size { default | medium | high | very-high }

### Syntax Description

l2rib	Layer 2 routing information base
event-history	Set event-history size for L2RIB
client-tbl	L2RIB Client, Producer, Consumer Tables Event Logs
ead-pl	L2RIB EAD, Path-List Objects Event Logs
errors	L2RIB Error Logs
mac	L2RIB MAC Object Event Logs
mac-ip	L2RIB MAC Object Event Logs
misc-obj	L2RIB IMET, Flood-List, ARP-Signal, Peer ID, Startup-Routes Objects Event Logs
rmac	L2RIB Router MAC Object Event Logs
topology	L2RIB Topology Object Event Logs
tx-infra	L2RIB TxList, TxSend, TxThread Event Logs
size	Size
default	Default (Low)
medium	Medium
high	High
very-high	Very High

### Command Mode

- /exec/configure

# label allocate global

[no] label allocate global { all-routes | host-routes | prefix-list <pfx-list> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
label	LDP label configuration
allocate	Allocate local labels
global	Specify default VPN Routing/Forwarding instance
all-routes	Allocate local labels for all routes
host-routes	Allocate local labels for host routes only (default)
prefix-list	Specify a prefix-list for local label filtering
<i>pfx-list</i>	IP prefix-list for destination prefixes

## Command Mode

- /exec/configure/ldp

# lacp fast-select-hot-standby

lacp fast-select-hot-standby | no lacp fast-select-hot-standby

## Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
fast-select-hot-standby	Configure fast select for hot standby ports. Enabling this feature will allow fast selection of hot standby port when last active port in the port-channel is going down.

## Command Mode

- /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

# lacp port-priority

lacp port-priority <port-pri> | no lacp port-priority

## Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
port-priority	Set LACP port priority
<i>port-pri</i>	Enter port priority

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# lacp rapid-transition

lacp rapid-transition | no lacp rapid-transition

## Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
rapid-transition	Optimizes LACP timers for rapid transition from P->I, I->P state

## Command Mode

- /exec/configure



# lACP rate

lACP rate <rate\_type>

## Syntax Description

lACP	Set LACP parameters for the interface
rate	Configure rate at which PDUs are sent by LACP
<i>rate_type</i>	Rate type

## Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

# lacp rate

[no] lacp rate

## Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
rate	Configure rate at which PDUs are sent by LACP

## Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

# lacp system-priority

lacp system-priority <sys-pri> | no lacp system-priority

## Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
system-priority	Set LACP system priority
<i>sys-pri</i>	Enter System Priority

## Command Mode

- /exec/configure

# last

last [ <lines> ]

## Syntax Description

	Pipe command output to filter
last	Display last lines
<i>lines</i>	(Optional) number of lines to print

## Command Mode

- /output

# layer2-switched flow monitor

[no] layer2-switched flow monitor <monitorname> input [ sampler <samplername> ]

## Syntax Description

layer2-switched	Configure L2 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic
sampler	(Optional) Optional Sampler to apply to this Flow Monitor
<i>samplername</i>	(Optional) Name of Sampler

## Command Mode

- /exec/configure/if-switching

# layer3 peer

layer3 peer | no layer3 peer

## Syntax Description

no	Negate a command or set its defaults
layer3	Enable layer 3 functionality
peer	no change for TTL of packets destined to the peer

## Command Mode

- /exec/configure/vpc-domain

# ldap-search-map

[no] ldap-search-map

## Syntax Description

no	Negate a command or set its defaults
ldap-search-map	Set one of the configured search-map as active

## Command Mode

- /exec/configure/ldap

# ldap-search-map

ldap-search-map <*s0*>

## Syntax Description

ldap-search-map	Set one of the configured search-map as active
<i>s0</i>	Name of the search-map

## Command Mode

- /exec/configure/ldap



# ldap-server deadtime

[no] ldap-server deadtime <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
deadtime	Global LDAP server deadtime period in seconds
<i>i0</i>	LDAP server deadtime period in minutes (default 0 mins -disabled)

## Command Mode

- /exec/configure

# ldap-server host

```
[no] ldap-server host { <hostipname> } [ { enable-ssl | port <i1> [ timeout <i2> ] | rootDN <s0> [ password
{ 7 <s1> { { [ port1 <i3> [ timeout1 <i4> ] } ] | [ timeout5 <i9> ] } } | <s2> { { [ port2 <i5> [ timeout2 <i6>
] ] } | [ timeout4 <i8> ] } } } ] | timeout3 <i7> } ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
host	LDAP server's DNS name or IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
enable-ssl	(Optional) LDAP server enable ssl
port	(Optional) LDAP server's port (default: global config)
<i>i1</i>	(Optional) port number
timeout	(Optional) LDAP server timeout period in seconds
<i>i2</i>	(Optional) LDAP server timeout in seconds (default: global config)
rootDN	(Optional) LDAP server root DN
<i>s0</i>	(Optional) root DN
password	(Optional) LDAP server root password
7	(Optional) LDAP root password (encrypted)
<i>s1</i>	(Optional) password (encrypted)
port1	(Optional) LDAP server's port (default: global config)
<i>i3</i>	(Optional) port number
timeout1	(Optional) LDAP server timeout period in seconds
<i>i4</i>	(Optional) LDAP server timeout in seconds (default: global config)
<i>s2</i>	(Optional) password (clear text)
port2	(Optional) LDAP server's port (default: global config)
<i>i5</i>	(Optional) port number
timeout2	(Optional) LDAP server timeout period in seconds
<i>i6</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout3	(Optional) LDAP server timeout period in seconds

<i>i7</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout4	(Optional) LDAP server timeout period in seconds
<i>i8</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout5	(Optional) LDAP server timeout period in seconds
<i>i9</i>	(Optional) LDAP server timeout in seconds (default: global config)

**Command Mode**

- /exec/configure

# ldap-server port

[no] ldap-server port <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
port	Global LDAP server's port (default 389)
<i>i0</i>	port number

## Command Mode

- /exec/configure

# ldap-server timeout

[no] ldap-server timeout <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
timeout	Global LDAP server timeout period in seconds
<i>i0</i>	LDAP server timeout period in seconds (default 5 sec)

## Command Mode

- /exec/configure

# ldap search-map

[no] ldap search-map <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ldap	Configure information about ldap
search-map	Configure the search-map
s0	Search Map Name

## Command Mode

- /exec/configure

# license expiry check\_interval

license expiry check\_interval <i0>

## Syntax Description

license	Enter the license configuration mode
expiry	Configure the expiry check interval
check_interval	Configure the expiry check interval
<i>i0</i>	Specify the license expiry check interval in seconds

## Command Mode

- /exec

# license grace-period

[no] license grace-period

## Syntax Description

no	(Optional) Negate a command or set its defaults
license	Modify license features
grace-period	Configure grace period support for licenses

## Command Mode

- /exec/configure



# license grace-period days

license grace-period days <i0>

## Syntax Description

license	Enter the license configuration mode
grace-period	Configure the grace period
days	Configure the grace period in days
<i>i0</i>	Number of days

## Command Mode

- /exec

# license grace-period seconds

license grace-period seconds <i0>

## Syntax Description

license	Enter license configuration mode
grace-period	Configure the grace period
seconds	Configure the grace period in seconds
<i>i0</i>	Specify the grace period in seconds

## Command Mode

- /exec

# license grace period

license grace period <*i0*>

## Syntax Description

license	Enter the license configuration mode
grace	Configure the grace period
period	Specify the grace period in days
<i>i0</i>	

## Command Mode

- /exec

## license reserve count

[no] license reserve count <i0> package <license-feature> module <i1>

### Syntax Description

no	(Optional) Negate a command or set its defaults
license	Display licensing information
reserve	Reserve the licenses for the specified module
count	Count of licenses to reserve
<i>i0</i>	Count of licenses
package	Name of the license package to reserve
<i>license-feature</i>	Name of the license package
module	Module number
<i>i1</i>	Module number

### Command Mode

- /exec/configure

## limit-resource m4route-mem

```
{ limit-resource m4route-mem [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi>
| equal-to-min } } | { no limit-resource m4route-mem [ [ minimum { <min> | <min-hi> } ] maximum {
<max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

### Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
m4route-mem	set ipv4 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

## limit-resource m6route-mem

```
{ limit-resource m6route-mem [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi>
} } | { no limit-resource m6route-mem [ [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max>
| <max-hi> } ] }
```

### Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
m6route-mem	set ipv6 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

# limit-resource module-type

{ limit-resource module-type <card-type> + } | { no limit-resource module-type }

## Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
module-type	Controls which type of modules are allowed in this vdc
<i>card-type</i>	Allowed module types

## Command Mode

- /exec/configure/vdc

## limit-resource monitor-session-erspan-dst minimum

```
{ limit-resource monitor-session-erspan-dst minimum <min-val> maximum { <max-val> | equal-to-min } }
| { no limit-resource monitor-session-erspan-dst [ minimum <min-val> maximum { <max-val> | equal-to-min
} ] }
```

### Syntax Description

limit-resource	Resource configuration
monitor-session-erspan-dst	Monitor erspan destination session
minimum	minimum monitor erspan-dst session to allocate
<i>min-val</i>	minimum monitor erspan-dst session value
maximum	maximum monitor erspan-dst session to allocate
<i>max-val</i>	maximum monitor erspan-dst session value
equal-to-min	set maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc



## limit-resource monitor-session-inband-src minimum

```
{ limit-resource monitor-session-inband-src minimum <min-val> maximum { <max-val> | equal-to-min } }
| { no limit-resource monitor-session-inband-src [ minimum <min-val> maximum { <max-val> | equal-to-min
} ] }
```

### Syntax Description

limit-resource	Resource configuration
monitor-session-inband-src	Monitor inband source
minimum	minimum monitor inband source to allocate
<i>min-val</i>	minimum monitor inband source value
maximum	maximum monitor inband source to allocate
<i>max-val</i>	maximum monitor inband source value
equal-to-min	set maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

## limit-resource monitor-session minimum

```
{ limit-resource monitor-session minimum <min-val> maximum { <max-val> | equal-to-min } } | { no
limit-resource monitor-session [ minimum <min-val> maximum { <max-val> | equal-to-min } ] }
```

### Syntax Description

limit-resource	Resource configuration
monitor-session	Monitor local/erspan-source session
minimum	minimum monitor local session to allocate
<i>min-val</i>	minimum monitor local session value
maximum	maximum monitor local session to allocate
<i>max-val</i>	maximum monitor local session value
equal-to-min	set maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

# limit-resource port-channel minimum

limit-resource port-channel minimum <min-val> maximum { <max-val> | equal-to-min } | no limit-resource port-channel [ minimum <min-val> maximum { <max-val> | equal-to-min } ]

## Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
port-channel	set port-channel limits
minimum	minimum port-channels to allocate
<i>min-val</i>	
maximum	maximum port-channels to allocate
<i>max-val</i>	
equal-to-min	set maximum value equal to min

## Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

## limit-resource u4route-mem

```
{ limit-resource u4route-mem [ minimum { <min-lo> | <min> | <min-hi> } ] maximum { <max-lo> | <max>
| <max-hi> | equal-to-min } } | { no limit-resource u4route-mem [ [ minimum { <min-lo> | <min> | <min-hi>
} ] maximum { <max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

### Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
u4route-mem	set ipv4 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min-lo</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

## limit-resource u6route-mem

```
{ limit-resource u6route-mem [ minimum { <min-lo> | <min> | <min-hi> } ] maximum { <max-lo> | <max>
| <max-hi> | equal-to-min } } | { no limit-resource u6route-mem [ [ minimum { <min-lo> | <min> | <min-hi>
} ] maximum { <max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

### Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
u6route-mem	set ipv6 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min-lo</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

## limit-resource vlan minimum

{ limit-resource vlan minimum <min-val> maximum { <max-val> | equal-to-min } } | { no limit-resource vlan [ minimum <min-val> maximum { <max-val> | equal-to-min } ] }

### Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
vlan	set VLAN limits
minimum	minimum VLANs to allocate
<i>min-val</i>	minimum VLANs value
maximum	maximum VLANs to allocate
<i>max-val</i>	maximum VLANs value
equal-to-min	set maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

## limit-resource vrf minimum

{ limit-resource vrf minimum <number1> maximum { <number2> | equal-to-min } } | { no limit-resource vrf [ minimum <number1> maximum { <number2> | equal-to-min } ] }

### Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
vrf	set vrf resource limits
minimum	minimum vrf resources to allocate
<i>number1</i>	minimum vrf resource value
maximum	maximum vrf resources to allocate
<i>number2</i>	maximum vrf resource value
equal-to-min	set maximum value equal to min

### Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

# line console

[no] line console

## Syntax Description

no	(Optional) Negate a command or set its defaults
line	Configure a terminal line
console	Primary terminal line

## Command Mode

- /exec/configure



# line console

[no] line console

## Syntax Description

no	(Optional) Negate a command or set its defaults
line	Configure a terminal line
console	Primary terminal line

## Command Mode

- /exec/configure

# line vty

line vty

## Syntax Description

line	Configure a terminal line
vty	Virtual terminal line

## Command Mode

- /exec/configure

# line vty

[no] line vty

## Syntax Description

no	Negate a command or set its defaults
line	Configure a terminal line
vty	Virtual terminal line

## Command Mode

- /exec/configure

## link-management timers

[no] link-management timers { bandwidth-hold | periodic-flooding } | link-management timers { bandwidth-hold <bw\_seconds> | periodic-flooding <flood\_seconds> }

### Syntax Description

no	Negate a command or set its defaults
link-management	Link Management configuration
timers	Link Management timers configuration
bandwidth-hold	Link Management bandwidth hold timer
<i>bw_seconds</i>	seconds
periodic-flooding	Link Management periodic flooding interval
<i>flood_seconds</i>	seconds [0 to disable, minimum set to 30]

### Command Mode

- /exec/configure/te

# link debounce

link debounce [ time <time\_val> ] | no link debounce [ time <time\_val> ]

## Syntax Description

no	Negate a command or set its defaults
link	Configure link
debounce	Configure link debounce timer
time	(Optional) Link debounce time
<i>time_val</i>	(Optional) Timer value (in milliseconds)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-sub

# lisp-rig

```
{ lisp-rig | rig } [ instance-id <iid> ] { <hostname> | { <eid> | <eid6> } } to { <ddt-hostname> | { <ddt> | <ddt6> } }
```

## Syntax Description

lisp-rig	LISP-DDT Referral Internet Groper
rig	LISP-DDT Referral Internet Groper
instance-id	(Optional) Instance-ID of VPN EID resides in
<i>iid</i>	(Optional) 24-bit instance-ID value
<i>eid</i>	RIG on a IPv4 Endpoint ID (EID)
<i>hostname</i>	DNS name for Endpoint ID (EID)
to	Where to send the Map-Request
<i>ddt-hostname</i>	DNS name for DDT-node
<i>ddt</i>	DDT-node IPv4 address to send Map-Request to

## Command Mode

- /exec

# list

list [ <index> ]

## Syntax Description

list	Re-list all or part of the explicit path entries
<i>index</i>	(Optional) List starting at entry index number

## Command Mode

- /exec/configure/te/expl-path

# list

list

## Syntax Description

list	Re-list all of the attribute list entries
------	-------------------------------------------

## Command Mode

- /exec/configure/te/lsp-attr



# listobject-boolean

listobject-boolean <object-id> not

## Syntax Description

listobject-boolean	Configure Object as member of tracking list
<i>object-id</i>	Tracked object
not	Negate Up status

## Command Mode

- /exec/configure/tr-list-bool

# listobject-weight

```
listobject-weight { <object-id> weight <weight-val> } | threshold-weight { weight-thresh { weightup
<up-weight> [ weightdown <down-weight> ] | weightdown <down-weight> [ weightup <up-weight> ] } } |
no threshold-weight weight-thresh
```

## Syntax Description

no	Negate a command or set its defaults
listobject-weight	Configure Object as member of tracking list
<i>object-id</i>	Tracked Object
weight	Assign a weight to object
<i>weight-val</i>	Assign a weight to object
threshold-weight	Threshold parameters
weight-thresh	Weight threshold
weightup	Up threshold
<i>up-weight</i>	Up threshold weight
weightdown	(Optional) Down threshold
<i>down-weight</i>	(Optional) Down threshold weight

## Command Mode

- /exec/configure/tr-list-thrw

# listobject

[no] listobject <object-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
listobject	Configure Object as member of tracking list
<i>object-id</i>	Tracked Object

## Command Mode

- /exec/configure/tr-list-thrw /exec/configure/tr-list-thrp /exec/configure/tr-list-bool

# lldp

[no] lldp { holdtime <i0> | reinit <i1> | timer <i2> | portid-subtype <i3> | tlv-select { management-address | port-description | port-vlan | system-capabilities | system-description | system-name | dcbxp } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure global LLDP parameters
holdtime	Specify the holdtime (in sec) to be sent in packets
<i>i0</i>	holdtime in sec
reinit	Delay (in sec) for LLDP initialisation on any interface
<i>i1</i>	reinit in sec
timer	Specify the rate at which LLDP packets are sent (in sec)
<i>i2</i>	rate of packets in sec
portid-subtype	config portid subtype for LLDP TLV and SNMP MIBs
<i>i3</i>	0: long interface name (default), 1: short interface name
tlv-select	Selection of LLDP to send
management-address	Management Address TLV
port-description	Port Description TLV
port-vlan	Port Vlan ID TLV
system-capabilities	System Capabilities TLV
system-description	System Description TLV
system-name	System Name TLV
dcbxp	DCBXP TLVs

## Command Mode

- /exec/configure

# lldp eee

```
[no] lldp eee { rx_wake_time <i0> | tx_wake_time <i1> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure LLDP parameters
eee	Configure LLDP EEE parameters
rx_wake_time	Specify the EEE rx wake time
<i>i0</i>	EEE rx wake time
tx_wake_time	Specify the EEE tx wake time
<i>i1</i>	EEE tx wake time

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

# lldp receive

[no] lldp receive

## Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
receive	Enable LLDP reception on interface

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

# lldp tlv-select eee

[no] lldp tlv-select eee

## Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-select	Configure EEE parameter
eee	Enable/Disable LLDP EEE TLV

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

## lldp tlv-select management-address

[no] lldp tlv-select management-address { v4 | v6 }

### Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure global LLDP parameters
tlv-select	Selection of LLDP to send
management-address	Management Address TLV
v4	Management Address TLV v4
v6	Management Address TLV v6

### Command Mode

- /exec/configure



# lldp tlv-set management-address

[no] lldp tlv-set management-address <ip-addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-set	LLDP TLV configuration for interface
management-address	Management address to be sent in management-tlv of LLDPDU.
<i>ip-addr</i>	IP address in dotted decimal format i.i.i.i

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

## lldp tlv-set management-address

[no] lldp tlv-set management-address <ipv6-addr> ipv6

### Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-set	LLDP TLV configuration for interface
management-address	Management address to be sent in management-tlv of LLDPDU.
ipv6	IPV6

### Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

# lldp tlv-set vlan

[no] lldp tlv-set vlan [ <vlan-id> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-set	LLDP TLV configuration for interface
vlan	VLAN-id whose SVI IP address should be used as management address in management-tlv of LLDPDU. Default is native VLAN.
<i>vlan-id</i>	(Optional) vlan-id within range of 1-4094

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

# lldp transmit

[no] lldp transmit

## Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
transmit	Enable LLDP transmission on interface

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

# load-balance

```
[no] load-balance { [ method { src { ip | ip-l4port <src-protocol> range <src-x> <src-y> } | dst { ip-dst | ip-l4port <dst-protocol> range <dst-x> <dst-y> } } | buckets <num> | mask-position <mask> ] + }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	ITD Loadbalance
method	(Optional) ITD Loadbalance method
src	(Optional) Source based parameters
dst	(Optional) Destination based parameters
ip	(Optional) IP
ip-l4port	(Optional) IP and L4 port
<i>src-protocol</i>	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
<i>src-x</i>	(Optional)
<i>src-y</i>	(Optional)
ip-dst	(Optional) IP
<i>dst-protocol</i>	(Optional) Protocol
<i>dst-x</i>	(Optional)
<i>dst-y</i>	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
<i>num</i>	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
<i>mask</i>	(Optional) Loadbalance mask position number range 0-31 for IPv4

## Command Mode

- /exec/configure/itd

# load-balancing

load-balancing <load-bal> | no load-balancing [ <load-bal> ]

## Syntax Description

no	Negate a command or set its defaults
load-balancing	Load balancing method
<i>load-bal</i>	Load balancing method

## Command Mode

- /exec/configure/if-eth-any/glbp

# load-interval

load-interval <interval> | no load-interval [ <interval1> ]

## Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
<i>interval</i>	Load interval delay in seconds
<i>interval1</i>	(Optional) Load interval delay in seconds

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# load-interval

```
load-interval [ counter <counter_val> ] <interval> | no load-interval [ counter <counter_val> ] [ <interval1> ]
```

## Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
counter	(Optional) Specify counter for this load interval
<i>interval</i>	Load interval delay in seconds
<i>counter_val</i>	(Optional) Specify counter for this load interval
<i>interval1</i>	(Optional) Load interval delay in seconds

## Command Mode

- /exec/configure/if-vlan-common



# load-interval counter

load-interval counter <counter\_val> <interval> | no load-interval counter <counter\_val> [ <interval1> ]

## Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
counter	Specify counter for this load interval
<i>counter_val</i>	Specify counter for this load interval
<i>interval</i>	Load interval delay in seconds
<i>interval1</i>	(Optional) Load interval delay in seconds

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# load

load <uri0> [ <s0> ]

## Syntax Description

load	Load system image
<i>uri0</i>	Enter image URI
<i>s0</i>	(Optional) Options

## Command Mode

- /exec

# load

load <uri0>

## Syntax Description

load	Load system image
<i>uri0</i>	Enter image URI

## Command Mode

- /exec

# load

load <uri0> [ <s0> ]

## Syntax Description

load	Load system image
<i>uri0</i>	Enter image URI
<i>s0</i>	(Optional) Options

## Command Mode

- /exec

# local-as

local-as <asn> | no local-as [ <asn> ]

## Syntax Description

no	Negate a command or set its defaults
local-as	Specify the local-as for this vrf
<i>asn</i>	AS number

## Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

# local-as

```
{ local-as <asn> [ no-prepend [ replace-as [ dual-as ] ] ] } | { { no | default } local-as [ <asn> ] }
```

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
local-as	Specify the local-as number for the eBGP neighbor
<i>asn</i>	Autonomous System Number
no-prepend	(Optional) Do not prepend the local-as number to updates from the eBGP neighbor
replace-as	(Optional) Prepend only the local-as number to updates to eBGP neighbor
dual-as	(Optional) Connect using either the local-as number or the real as

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# locator-led

[no] locator-led { chassis | module <module> | fan <fan\_num> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
locator-led	blink locator led on device
chassis	blink chassis led
module	blink module led
<i>module</i>	please enter the module number
fan	blink Fan led
<i>fan_num</i>	fan number

## Command Mode

- /exec

# lockdown

[no] lockdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
lockdown	Lockdown the LSP--disable reoptimization

## Command Mode

- /exec/configure/te/lsp-attr



# log-adjacency-changes

[no] log-adjacency-changes [ detail ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state
detail	(Optional) Notify all state changes

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# log-adjacency-changes

[no] log-adjacency-changes [ detail ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state
detail	(Optional) Notify all state changes

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# log-adjacency-changes

{ [ no ] log-adjacency-changes } | { [ no ] [ eigrp ] log-neighbor-changes }

## Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
log-adjacency-changes	Log changes in adjacency state
log-neighbor-changes	Enable/Disable IP-EIGRP neighbor logging

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# log-adjacency-changes

[no] log-adjacency-changes

## Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# log-adjacency-changes

[no] log-adjacency-changes

## Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# log-event-type

no ] [ eigrp ] log-event-type [ dual ] [ xmit ] [ transport ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
log-event-type	Set event types logged
dual	(Optional) Log DUAL events
xmit	(Optional) Log transmission events
transport	(Optional) Log transport events

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# log-neighbor-changes

[no] log-neighbor-changes

## Syntax Description

no	(Optional) Negate a command or set its defaults
log-neighbor-changes	Log a message for neighbor up/down event

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# log-neighbor-changes

no | default ] log-neighbor-changes [ disable ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
log-neighbor-changes	Log message for neighbor up/down event
disable	(Optional) Disable logging of neighbor up/down event

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess



# log-neighbor-warnings

```
{ { [ eigrp ] log-neighbor-warnings [ <interval> ] } | { no [ eigrp ] log-neighbor-warnings [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
log-neighbor-warnings	Enable/Disable IP-EIGRP neighbor warnings
<i>interval</i>	(Optional) Neighbor warning interval in seconds

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# logging

```
[no] logging { lsp { path-errors | preemption | reservation-errors | setups | teardowns } | tunnel { lsp-selection | path change } } | logging { lsp { path-errors | preemption | reservation-errors | setups | teardowns } | tunnel { lsp-selection | path change } }
```

## Syntax Description

no	Negate a command or set its defaults
logging	Trap logging configuration
lsp	LSP-specific traps logging configuration
path-errors	Log LSP Path Error traps
preemption	Log LSP Preemption traps
reservation-errors	Log LSP Reservation Error traps
setups	Log LSP Establishment Traps
teardowns	Log LSP Teardown Traps
tunnel	Tunnel-specific traps logging configuration
lsp-selection	Log Tunnel LSP Selection traps
path	Log Tunnel Path-related traps
change	Log Tunnel Path change traps

## Command Mode

- /exec/configure/te

# logging

[no] logging { neighbor-changes |

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Enable LDP logging
neighbor-changes	Log LDP neighbor state changes

## Command Mode

- /exec/configure/ldp

# logging abort

logging abort

## Syntax Description

logging	Modify message logging facilities
abort	Flushes cached data without committing and releases the lock

## Command Mode

- /exec/configure

# logging clear\_console

logging clear\_console

## Syntax Description

logging	Exec logging commands
clear_console	Clear Console

## Command Mode

- /exec

# logging distribute

[no] logging distribute

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
distribute	Enables/disables fabric distribution using cfs.

## Command Mode

- /exec/configure

# logging drop threshold

```
logging drop threshold <threshold-in-packets> [ level <level-value> ] | [ no ] logging drop threshold [ <threshold-in-packets> [ level <level-value> ] ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	set logging for copp class
drop	logging for dropped packets
threshold	threshold value for dropped packets
level	(Optional) syslog level
<i>level-value</i>	(Optional) specify the logging level between 1-7

## Command Mode

- /exec/configure/pmap/class

# logging event

[no] logging event { link-status | trunk-status } { enable | default }

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
link-status	UPDOWN and CHANGE messages
trunk-status	TRUNK status messages
enable	To enable logging overriding port level configuration
default	default logging configuration used by interfaces not explicitly configured

## Command Mode

- /exec/configure



# logging event port link-status

logging event port link-status

## Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

# logging event port link-status

[no] logging event port link-status

## Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

# logging event port link-status

logging event port link-status [ default ] | no logging event port link-status

## Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages
default	(Optional) Use the global default value

## Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub /exec/configure/if-gig-ether-sub /exec/configure/if-loopback /exec/configure/if-remote-ethernet-sub /exec/configure/if-ether-sub-p2p

# logging event port link-status default

logging event port link-status default

## Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages
default	Use the global default value

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

# logging event port trunk-status

logging event port trunk-status

## Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
trunk-status	TRUNK status messages

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

# logging event port trunk-status

[no] logging event port trunk-status

## Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
port	Port level events
trunk-status	TRUNK status messages

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

# logging event port trunk-status default

logging event port trunk-status default

## Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
trunk-status	TRUNK status messages
default	Use the global default value

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

# logging flush

logging flush

## Syntax Description

logging	Exec logging commands
flush	Flushing logging

## Command Mode

- /exec



# logging invalid-username

[no] logging invalid-username

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	One Platform logging
invalid-username	Display invalid usernames in ONE-P log messages

## Command Mode

- /exec/configure/onep

# logging level

logging level { keystore | sksd } <i0> | no logging level { keystore | sksd } [ <i0> ]

## Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
keystore	Keystore syslog level
sksd	Keystore/sksd syslog level
<i>i0</i>	

## Command Mode

- /exec/configure

# logging level ethpm

[no] logging level ethpm { link-up | link-down } <level>

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ethpm	Set level for ethpm syslog messages
link-up	Configure logging level for link up syslog messages
link-down	Configure logging level for link down syslog messages
<i>level</i>	Logging Level

## Command Mode

- /exec/configure

# logging max\_messages

logging max\_messages <i0>

## Syntax Description

logging	Exec logging commands
max_messages	Increase maximum syslogd message buffer size
<i>i0</i>	

## Command Mode

- /exec

# logging message interface type ethernet

logging message interface type ethernet <info> | no logging message interface type ethernet <info>

## Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
message	Interface events
interface	Interface level events
type	Interface type
ethernet	Ethernet interfaces
<i>info</i>	Field Names to be added to interface syslog

## Command Mode

- /exec/configure

# logging reconcile

```
logging reconcile { all [ force ] | files <i0> | vtys <i1> | dev <s0> }
```

## Syntax Description

logging	Modify message logging facilities
reconcile	Reconcile the internal data structures in syslogd, only use in console connection when all VTYs are closed
all	Reconcile all VTY elements in Files array and VTY list - only supported in console
force	(Optional) Reconcile all VTY elements in Files array and VTY list - force to run in VTYs or console
files	Reconcile specific element in Files array
<i>i0</i>	Enter Files array index to reconcile
vtys	Reconcile specific element in VTY list
<i>i1</i>	Enter VTY list index to reconcile
dev	Reconcile specific dev elements in Files array and VTY list
<i>s0</i>	Enter the dev name to reconcile

## Command Mode

- /exec/configure

# logging source-interface

{ logging source-interface <interface> | no logging source-interface }

## Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
source-interface	Enable Source-Interface for Remote Syslog Server
<i>interface</i>	Source interface name

## Command Mode

- /exec/configure

# logging timestamp

[no] logging timestamp { microseconds | milliseconds | seconds }

## Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
timestamp	Set logging timestamp granularity
microseconds	Timestamp in micro-seconds
milliseconds	Timestamp in milli-seconds
seconds	Timestamp in seconds (Default)

## Command Mode

- /exec/configure



# login block-for

login block-for <i1> attempts <i2> within <i3>

## Syntax Description

login	Enable secure login checking
block-for	Set quiet-mode active time period
<i>i1</i>	Time period in seconds
attempts	Set max number of fail attempts
<i>i2</i>	Fail attempts max value
within	Watch period for fail attempts
<i>i3</i>	Time period in seconds

## Command Mode

- /exec/configure

# login block-for

[no] login block-for

## Syntax Description

no	Negate a command or set its defaults
login	Enable secure login checking
block-for	Set quiet-mode active time period

## Command Mode

- /exec/configure

# login quiet-mode

[no] login quiet-mode

## Syntax Description

no	Negate a command or set its defaults
login	Enable secure login checking
quiet-mode	Set quiet-mode options

## Command Mode

- /exec/configure

# login quiet-mode access-class

login quiet-mode access-class <access-list>

## Syntax Description

login	Enable secure login checking
quiet-mode	Set quiet-mode options
access-class	Set access class
<i>access-list</i>	Access-list name

## Command Mode

- /exec/configure

# logit

logit <log>

## Syntax Description

logit	Add
<i>log</i>	Specify

## Command Mode

- /exec

# logout-warning

{ logout-warning <i0> | no logout-warning [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
logout-warning	Configure logout warning
<i>i0</i>	Enter logout warning time in seconds

## Command Mode

- /exec/configure/line

# low-memory exempt

[ no | default ] low-memory exempt

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
low-memory	Behaviour
exempt	Do

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# Ishow

Ishow

## Syntax Description

Ishow	display this instance of credential
-------	-------------------------------------

## Command Mode

- /exec/configure/dot1x-cred



# Ishow

Ishow

## Syntax Description

Ishow	local show: displays config of current interface
-------	--------------------------------------------------

## Command Mode

- /exec/configure/if-igp

# lsp-gen-interval

lsp-gen-interval <level> <max-wait> [ <initial-wait> <second-wait> ] | no lsp-gen-interval <level> <max-wait> [ <initial-wait> <second-wait> ]

## Syntax Description

no	Negate a command or set its defaults
lsp-gen-interval	Configure LSP generation interval
<i>level</i>	IS-IS level
<i>max-wait</i>	Maximum wait between trigger and LSP generation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and LSP generation (milli-secs)
<i>second-wait</i>	(Optional) Second wait used in LSP generation (milli-secs) during backoff

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# lsp-mtu

lsp-mtu <mtu> | no lsp-mtu [ <mtu> ]

## Syntax Description

no	Negate a command or set its defaults
lsp-mtu	Set LSP MTU
<i>mtu</i>	Maximum LSP size in bytes

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# lsp-mtu

lsp-mtu <mtu> | no lsp-mtu [ <mtu> ]

## Syntax Description

no	Negate a command or set its defaults
lsp-mtu	Set LSP MTU
<i>mtu</i>	Maximum LSP size in bytes

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# Isp attributes

[no] lsp attributes <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
lsp	Configure LSP parameters
attributes	Configure LSP attributes
<i>name</i>	Name of LSP attribute list

## Command Mode

- /exec/configure/te





## M Commands

---

- [mac-address](#), on page 1982
- [mac-address](#), on page 1983
- [mac-address](#), on page 1984
- [mac-address](#), on page 1985
- [mac-address ipv6-extract](#), on page 1986
- [mac-list](#), on page 1987
- [mac access-list](#), on page 1988
- [mac address](#), on page 1989
- [mac address inherit](#), on page 1990
- [mac advert interval](#), on page 1991
- [mac packet-classify](#), on page 1992
- [mac port access-group](#), on page 1993
- [management](#), on page 1994
- [map-notify-group](#), on page 1995
- [map-server](#), on page 1996
- [match-address](#), on page 1997
- [match](#), on page 1998
- [match](#), on page 2002
- [match](#), on page 2003
- [match](#), on page 2004
- [match access-group name](#), on page 2006
- [match as-number](#), on page 2007
- [match as-number as-path-list](#), on page 2008
- [match as-path](#), on page 2009
- [match class-map](#), on page 2010
- [match community](#), on page 2011
- [match cos](#), on page 2012
- [match cos](#), on page 2013
- [match datalink](#), on page 2014
- [match dscp](#), on page 2015
- [match dscp](#), on page 2016
- [match exception](#), on page 2017
- [match extcommunity](#), on page 2018

- [match interface](#), on page 2019
- [match ip](#), on page 2020
- [match ip address](#), on page 2021
- [match ip address prefix-list](#), on page 2022
- [match ip multicast](#), on page 2023
- [match ip next-hop prefix-list](#), on page 2024
- [match ip route-source prefix-list](#), on page 2025
- [match ipv4](#), on page 2026
- [match ipv6](#), on page 2027
- [match ipv6 address](#), on page 2028
- [match ipv6 address prefix-list](#), on page 2029
- [match ipv6 multicast](#), on page 2030
- [match ipv6 next-hop prefix-list](#), on page 2031
- [match ipv6 route-source prefix-list](#), on page 2032
- [match metric](#), on page 2033
- [match protocol](#), on page 2034
- [match protocol](#), on page 2035
- [match qos-group](#), on page 2036
- [match qos-group](#), on page 2037
- [match qos-group2 \(queuing\)](#), on page 2038
- [match qos-group2 \(uf\)](#), on page 2039
- [match redirect](#), on page 2040
- [match route-type](#), on page 2041
- [match source-protocol](#), on page 2042
- [match tag](#), on page 2043
- [match transport](#), on page 2044
- [max-lsa](#), on page 2045
- [max-lsa](#), on page 2046
- [max-lsp-lifetime](#), on page 2047
- [max-lsp-lifetime](#), on page 2048
- [max-metric router-lsa](#), on page 2049
- [max-metric router-lsa](#), on page 2050
- [max-ports](#), on page 2051
- [max-ports](#), on page 2052
- [maxas-limit](#), on page 2053
- [maximum-paths](#), on page 2054
- [maximum-paths \(router-ospf3-af-ipv6\)](#), on page 2055
- [maximum-paths \(router-bgp-af\)](#), on page 2056
- [maximum-paths \(router-eigrp-af-common\)](#), on page 2057
- [maximum-paths \(vrf\)](#), on page 2058
- [maximum-paths \(router-isis-af-ipv6\)](#), on page 2059
- [maximum-paths eibgp](#), on page 2060
- [maximum-peers](#), on page 2061
- [maximum-prefix](#), on page 2062
- [maximum-prefix \(router-eigrp\)](#), on page 2063
- [maximum-prefix](#), on page 2064



- maximum routes, on page 2065
- mcast-group, on page 2066
- mdix auto, on page 2067
- medium, on page 2068
- medium, on page 2069
- medium broadcast, on page 2070
- medium p2p, on page 2071
- member vni, on page 2072
- member vni, on page 2073
- member vni, on page 2074
- merge config, on page 2075
- message-digest-key, on page 2076
- message-digest-key (router-ospf-slink), on page 2077
- metric-style, on page 2078
- metric direct 0, on page 2079
- metric maximum-hops, on page 2080
- metric rib-scale, on page 2081
- metric version 64bit, on page 2082
- metric weights, on page 2083
- mgmt-policy, on page 2084
- mkdir, on page 2085
- mode, on page 2086
- mode, on page 2087
- mode, on page 2088
- mode openflow, on page 2089
- mode tap-aggregation, on page 2090
- monitor erspan granularity, on page 2091
- monitor erspan origin ip-address, on page 2092
- monitor erspan switch-id, on page 2093
- move, on page 2094
- mping, on page 2095
- mpls traffic-eng tunnels, on page 2096
- mst, on page 2097
- mst, on page 2098
- mtu, on page 2099
- mtu1, on page 2100
- mtu, on page 2101
- mtu, on page 2102
- mtu, on page 2103
- multi-topology, on page 2104

# mac-address

mac-address <macaddress> | no mac-address [ <macaddress> ]

## Syntax Description

no	Negate a command or set its defaults
mac-address	Virtual MAC address
<i>macaddress</i>	MAC address(FORMAT:xxxx.xxxx.xxxx)

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# mac-address

mac-address <mac\_address\_val> | no mac-address [ <mac\_address\_val> ]

## Syntax Description

no	Negate a command or set its defaults
mac-address	Configure interface mac address

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub

# mac-address

mac-address { <mac\_address\_val> | ipv6-extract } | no mac-address [ <mac\_address\_val> | ipv6-extract ]

## Syntax Description

no	Negate a command or set its defaults
mac-address	Configure interface mac address
ipv6-extract	Extract mac-address from the IPv6 address configured on the interface

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel /exec/configure/if-port-channel-sub /exec/configure/if-remote-ethernet-sub

# mac-address

mac-address <mac-addr> | no mac-address

## Syntax Description

no	Negate a command or set its defaults
mac-address	Manually set interface MAC address
<i>mac-addr</i>	MAC address

## Command Mode

- /exec/configure/if-vlan-common

# mac-address ipv6-extract

mac-address ipv6-extract | no mac-address ipv6-extract

## Syntax Description

no	Negate a command or set its defaults
mac-address	Configure interface mac address
ipv6-extract	Extract mac-address from the IPv6 address configured on the interface

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub

# mac-list

```
{ mac-list <name> [ seq <seq> ] { permit | deny } <mac-addr> [ <mac-mask> ] } | { no mac-list <name> [ seq <seq> ] [ { permit | deny } <mac-addr> [ <mac-mask> ] ] }
```

## Syntax Description

no	Negate a command or set its defaults
mac-list	Build a mac list
<i>name</i>	Name of prefix list
seq	(Optional) Sequence number of an entry
<i>seq</i>	(Optional) Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
<i>mac-addr</i>	MAC address
<i>mac-mask</i>	(Optional) MAC Mask. Default Mask is ffff.ffff.ffff

## Command Mode

- /exec/configure

## mac access-list

[no] mac access-list <name> [ client <clienttype> <clientID> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

### Command Mode

- /exec/configure



# mac address

[no] mac address { <macaddr> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
mac	Configure vMAC address options for Pathway
address	Pathway will use a specified vMAC address
<i>macaddr</i>	48-bit MAC address in HEX

## Command Mode

- /exec/configure/if-eth-any/vrrs

# mac address inherit

mac address inherit

## Syntax Description

mac	Configure vMAC address options for Pathway
address	Pathway will use a specified vMAC address
inherit	Pathway will inherit vMAC

## Command Mode

- /exec/configure/if-eth-any/vrrs

# mac advert interval

[no] mac advert interval | mac advert interval <macint>

## Syntax Description

no	Negate a command or set its defaults
mac	Configure vMAC address options for Pathway
advert	Specify vMAC unsolicited advertisements
interval	Specify interval between vMAC unsolicited advertisements
<i>macint</i>	Advertisement Interval in seconds

## Command Mode

- /exec/configure/if-eth-any/vrrs

# mac packet-classify

[no] mac packet-classify

## Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
packet-classify	Force mac classification of packets

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-remote-ethernet-switch  
/exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-all

# mac port access-group

[no] mac port access-group <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
port	Port policy
access-group	Specify access control for packets
<i>name</i>	List name

## Command Mode

- /exec/configure/if-set-acl-l2

# management

[no] management

## Syntax Description

no	(Optional) Negate a command or set its defaults
management	Allow in-band management access to VLAN Interface IP address

## Command Mode

- /exec/configure/if-vlan-common

# map-notify-group

```
{ [ no ] map-notify-group { <addr> | <addr6> } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
map-notify-group	Group address to send and receive site specific Map-Notify messages
<i>addr</i>	IPv4 group address

## Command Mode

- /exec/configure/lisp-dynamic-oid /exec/configure/vrf/lisp-dynamic-oid

## map-server

```
{ { [ no ] map-server { <ms> | <ms6> } [ key-type { sha1 | sha2 } ] key <key> } | { [ no ] map-server { <ms> | <ms6> } proxy-reply } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
map-server	To interact with Map-Server
<i>ms</i>	Address of IPv4 map-server
key-type	(Optional) Authentication key type, either sha1 or sha2
sha1	(Optional) Use sha1 authentication in Map-Register messages
sha2	(Optional) Use sha2 authentication in Map-Register messages
key	Authentication key used with Map-Server
<i>key</i>	SHA-1 password key
proxy-reply	Request Map-Server to send Map-Replies on behalf of dynamic-EID

### Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid



# match-address

[no] match-address

## Syntax Description

no	(Optional) Negate a command or set its defaults
match-address	Match addresses in advertisement packets

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# match

```
[no] match { { access-group name <acl-name> } | [ not ] { { cos <cos-value> } | any | { eth-src <mac_src>
<mac_src_wild> } | { eth-dest <mac_dest> <mac_dest_wild> } | { eth-type <eth-value> } | { vlan
<vlan-number> } | { ip-tos <tos-value> <tos-mask> } | { ip-protocol <ip-protocol-value> } | { ip-src-addr
<ip-s-addr> <ip-s-mask> } | { ip-dst-addr <ip-d-addr> <ip-d-mask> } | { tcp-src-port <tcp-src-port-addr> } |
{ tcp-dst-port <tcp-dst-port-addr> } | { udp-src-port <udp-src-port-addr> } | { udp-dst-port
<udp-dst-port-addr> } | { input-interface <ifnum> } | { ipv6-src-addr <ipv6-s-addr> <ipv6-s-mask> } | {
ipv6-dst-addr <ipv6-d-addr> <ipv6-d-mask> } | { ipv6-protocol <ipv6-protocol-value> } | { ipv6-flowlabel
<ipv6-flowlabel-value> } | { icmpv6-type <icmpv6-type-value> } | { icmpv6-code <icmpv6-code-value> } |
{ ipv4-dscp <ipv4-dscp-list> } | { ipv6-dscp <ipv6-dscp-list> } | { dscp { <dscp-list> | <dscp-enum> } + } |
{ precedence { <precedence-list> | <prec-enum> } + } | { discard-class <discard-class-list> } | { qos-group
<qos-group-list> } | { class-map <cmap-name-plc> } | { protocol <protocol-enum> } | { packet length <len-list>
} | { ip rtp <port-list> } | { mpls experimental topmost <exp-list> } } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
access-group	Access group
name	Named Access List
<i>acl-name</i>	Access List name
cos	IEEE 802.1Q class of service
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-list</i>	List of DSCP values
<i>dscp-enum</i>	
precedence	Precedence in IP(v4) and IPv6 packets
<i>precedence-list</i>	List of precedence values
<i>prec-enum</i>	
discard-class	Discard class
<i>discard-class-list</i>	List of discard-class values
qos-group	Qos-group
<i>qos-group-list</i>	List of qos-group values
class-map	Class map
<i>cmap-name-plc</i>	Match class-map name

protocol	Protocol
<i>protocol-enum</i>	
packet	Packet
length	Length of IP datagram
<i>len-list</i>	list of IP packet length
ip	IP
rtp	Real Time Protocol
<i>port-list</i>	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
<i>exp-list</i>	List of MPLS exp values
any	Match on Any Filter
eth-dest	Match on Layer 2 destination MAC address
eth-src	Match on Layer 2 source MAC address
eth-type	Match on Ether type
vlan	Match on 802.1Q vlan
ip-tos	Match on IPv4 TOS
ip-protocol	Match on IP protocol
ip-src-addr	Match on IPv4 source address
ip-dst-addr	Match on IPv4 destination address
ipv6-src-addr	Match on IPv6 source address
ipv6-dst-addr	Match on IPv6 destination address
tcp-src-port	Match on TCP source port
tcp-dst-port	Match on TCP source port
udp-src-port	Match on UDP source port
udp-dst-port	Match on UDP source port
input-interface	Match on physical input interface
ipv6-protocol	Match on IPv6 Protocol Value

<i>ipv6-flowlabel</i>	Match on IPv6 Flowlabel
<i>icmpv6-type</i>	Match on ICMPv6 Message Type
<i>icmpv6-code</i>	Match on ICMPv6 Message Code
<i>ipv4-dscp</i>	Match on DSCP for IPV4 Packets
<i>ipv6-dscp</i>	Match on DSCP for IPV6 Packets
<i>cos-value</i>	class of service Value
<i>mac_src</i>	Source MAC address
<i>mac_src_wild</i>	Source MAC mask
<i>mac_dest</i>	Destination MAC address
<i>mac_dest_wild</i>	Destination MAC mask
<i>eth-value</i>	Ethernet type
<i>vlan-number</i>	Vlan number
<i>tos-value</i>	IPv4 TOS
<i>tos-mask</i>	IPv4 TOS Mask for DSCP
<i>ip-protocol-value</i>	IPV4 protocol
<i>ip-s-addr</i>	IPV4 address in format a.b.c.d
<i>ip-d-addr</i>	IPV4 address in format a.b.c.d
<i>ip-s-mask</i>	IPV4 address Mask in format a.b.c.d
<i>ip-d-mask</i>	IPV4 address Mask in format a.b.c.d
<i>tcp-src-port-addr</i>	Transport layer port number
<i>tcp-dest-port-addr</i>	Transport layer port number
<i>udp-src-port-addr</i>	Transport layer port number
<i>udp-dest-port-addr</i>	Transport layer port number
<i>ifnum</i>	Physical interface Name and Number
<i>ipv6-protocol-value</i>	IPv6 Protocol Value
<i>ipv6-flowlabel-value</i>	IPv6 Flowlabel
<i>icmpv6-type-value</i>	ICMPv6 Message Type
<i>icmpv6-code-value</i>	ICMPv6 Message Code
<i>ipv4-dscp-list</i>	List of IPV4 DSCP values

<i>ipv6-dscp-list</i>	List of IPV6 DSCP values
-----------------------	--------------------------

**Command Mode**

- /exec/configure/class-map/type/plc

# match

[no] match <ip\_ipv6\_mac> address <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Specify the match clause
<i>ip_ipv6_mac</i>	IP/IPv6/MAC
address	Match an access list
<i>name</i>	List name

## Command Mode

- /exec/configure/vacl

# match

```
[no] match { { access-group name <acl-name> } | [ not ] { dscp { <dscp-list> | <dscp-enum> } + } | { qos-group <qos-group-list> } }
```

## Syntax Description

<i>dscp-list</i>	<dscp-enum>
no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
access-group	Access group
name	Named Access List
<i>acl-name</i>	Access List name
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	
qos-group	Qos-group
<i>qos-group-list</i>	List of qos-group values

## Command Mode

- /exec/configure/class-map

# match

```
[no] match { [ not ] { { cos <cos-list> } | { precedence { <precedence-list> | <prec-enum> } + } | { discard-class
<discard-class-list> } | { class-map <cmap-name> } | { protocol <protocol-enum> } | { packet length <len-list>
} | { ip rtp <port-list> } | { mpls experimental topmost <exp-list> } } }
```

## Syntax Description

<i>cos-list</i>	<precedence-list>
no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
cos	IEEE 802.1Q class of service
precedence	Precedence in IP(v4) and IPv6 packets
<i>precedence-list</i>	List of precedence values
<i>prec-enum</i>	
discard-class	Discard class
<i>discard-class-list</i>	List of discard-class values
class-map	Class map
<i>cmap-name</i>	Match class-map name
protocol	Protocol
<i>protocol-enum</i>	
packet	Packet
length	Length of IP datagram
<i>len-list</i>	list of IP packet length
ip	IP
rtp	Real Time Protocol
<i>port-list</i>	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
<i>exp-list</i>	List of MPLS exp values



**Command Mode**

- /exec/configure/class-map

## match access-group name

[no] match access-group name <acs-grp-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
access-group	Match with given access group
name	Name of the access group
<i>acs-grp-name</i>	Match parameter for class-map

### Command Mode

- /exec/configure/cmap

# match as-number

[no] match as-number [ { <asnum> | <asnum\_range> } + ] { <asnum\_trail> | <asnum\_range\_trail> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
as-number	Match BGP peer AS number
<i>asnum</i>	(Optional) <AA4> ,
<i>asnum_range</i>	(Optional) <AA4>-<AA4> ,
<i>asnum_trail</i>	<AA4> ,
<i>asnum_range_trail</i>	<AA4>-<AA4> ,

## Command Mode

- /exec/configure/route-map

## match as-number as-path-list

match as-number as-path-list <aspl-name> + | no match as-number as-path-list { <aspl-name> | <aspl-name> } +

### Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
as-number	Match BGP peer AS number
as-path-list	AS-path access-list
<i>aspl-name</i>	
<i>aspl-name</i>	
<i>aspl-name</i>	

### Command Mode

- /exec/configure/route-map

# match as-path

match as-path <aspl-name> + | no match as-path { <aspl-name> | <aspl-name> } +

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
as-path	Match BGP AS path list
<i>aspl-name</i>	
<i>aspl-name</i>	
<i>aspl-name</i>	

## Command Mode

- /exec/configure/route-map

# match class-map

[no] match class-map < cmap-name >

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
class-map	Class map
<i>cmap-name</i>	class map name

## Command Mode

- /exec/configure/class-map/type/queuing

# match community

[no] match community <name> + [ exact-match ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
community	Match BGP community list
<i>name</i>	Community list name
exact-match	(Optional) Do exact matching of communities

## Command Mode

- /exec/configure/route-map

# match cos

[no] match cos <cos-list>

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
cos	IEEE 802.1Q class of service
<i>cos-list</i>	List of class-of-service values

## Command Mode

- /exec/configure/class-map/type/queuing



# match cos

[no] match cos <cos-list>

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
cos	IEEE 802.1Q class of service
<i>cos-list</i>	List of class-of-service values

## Command Mode

- /exec/configure/class-map/type/uf

# match datalink

[no] match datalink { mac source-address | mac destination-address | ethertype | vlan }

## Syntax Description

match	Specify a key field
datalink	datalink (Layer 2) attributes
mac	MAC Address
source-address	Source MAC Address
destination-address	Destination MAC Address
ethertype	Ethertype
vlan	VLAN ID

## Command Mode

- /exec/configure/nfm-record

# match dscp

[no] match dscp { <dscp-list> | <dscp-enum> } +

## Syntax Description

<i>dscp-list</i>	<dscp-enum>
no	(Optional) Negate a command or set its defaults
match	Classification criteria
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	

## Command Mode

- /exec/configure/color-cmap

# match dscp

[no] match dscp { <dscp-list> } +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
dscp	DSCP in IP(v4) packets
<i>dscp-list</i>	List of DSCP values

## Command Mode

- /exec/configure/class-map/type/queuing

# match exception

[no] match exception { { ip | ipv6 } { option | { icmp { redirect | unreachable } } | multicast } } | ttl-failure | glean | mtu-failure | nat-flow | { multicast { rpf-failure | sg-rpf-failure | dest-miss } } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
exception	Match exception packets
ip	ipv4 match criteria
ipv6	ipv6 match criteria
option	Match ip/ipv6 option exception packets
icmp	Icmp redirect packets
redirect	Send redirected packets back to sender
unreachable	Send unreachable packets back to sender
municast	IP unicast packets with multicast MAC
ttl-failure	Failed in ttl
mtu-failure	mtu-failure
glean	Glean packets
multicast	multicast packets
rpf-failure	multicast rpf check failure
sg-rpf-failure	multicast sg rpf check failure
dest-miss	L3 multicast destination lookup failure
nat-flow	ipv4 software nat flow packets

## Command Mode

- /exec/configure/cmap

# match extcommunity

[no] match extcommunity <name> + [ exact-match ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
extcommunity	Match BGP community list
<i>name</i>	Extended Community list name
exact-match	(Optional) Do exact matching of extended communities

## Command Mode

- /exec/configure/route-map

# match interface

[no] match interface <name> +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
interface	Match first hop interface of route
<i>name</i>	Interface name

## Command Mode

- /exec/configure/route-map

# match ip

[no] match ip { protocol | tos }

## Syntax Description

match	Specify a key field
ip	IP attributes
protocol	Protocol
tos	TOS

## Command Mode

- /exec/configure/nfm-record



# match ip address

[no] match ip address <name> +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
address	Match address of route or match packet
<i>name</i>	IP access-list name (for use in route-maps for PBR only)

## Command Mode

- /exec/configure/route-map

# match ip address prefix-list

match ip address prefix-list <ipv4-pfl-name> + | no match ip address prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
address	Match address of route or match packet
prefix-list	Match entries of prefix-lists
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	

## Command Mode

- /exec/configure/route-map

# match ip multicast

```
{ match ip multicast { { rp <i>iprp</i> [ rp-type <i>iprptype</i> ] } | { group <gprefix> } | { source <ipsrc> } } + } |
{ match ip multicast { { rp <i>iprp</i> [ rp-type <i>iprptype</i> ] } | { group-range <gaddr_start> to <gaddr_end> }
| { source <ipsrc> } } + } | { no match ip multicast }
```

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
multicast	Match multicast attributes
rp	Rendezvous point
<i>iprp</i>	IPv4 rendezvous prefix
rp-type	(Optional) Multicast rendezvous point type
<i>iprptype</i>	(Optional) IPv4 rendezvous point type
group	Multicast Group prefix
<i>gprefix</i>	IPv4 group prefix
group-range	Multicast Group address range
<i>gaddr_start</i>	First Group address
to	Range
<i>gaddr_end</i>	Last Group address
source	Multicast source address
<i>ipsrc</i>	IPv4 source prefix

## Command Mode

- /exec/configure/route-map

# match ip next-hop prefix-list

match ip next-hop prefix-list <ipv4-pfl-name> + | no match ip next-hop prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
next-hop	Match next-hop address of route
prefix-list	Match entries of prefix-lists
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	

## Command Mode

- /exec/configure/route-map

# match ip route-source prefix-list

match ip route-source prefix-list <ipv4-pfl-name> + | no match ip route-source prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
route-source	Match advertising source address of route
prefix-list	Match entries of prefix-lists
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	
<i>ipv4-pfl-name</i>	

## Command Mode

- /exec/configure/route-map

# match ipv4

[no] match ipv4 { source | destination } address

## Syntax Description

match	Specify a key field
ipv4	IPv4 attributes
source	Source Address
destination	Destination Address
address	Address

## Command Mode

- /exec/configure/nfm-record

# match ipv6

```
[no] match ipv6 { { { source | destination } address } | { flow-label | options } }
```

## Syntax Description

match	Specify a key field
ipv6	IPv6 attributes
source	Source Address
destination	Destination Address
address	Address
flow-label	Flow label
options	Options

## Command Mode

- /exec/configure/nfm-record

# match ipv6 address

[no] match ipv6 address <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
address	Match address of route or match packet
<i>name</i>	IPv6 access-list name (for use in route-maps for PBR only)

## Command Mode

- /exec/configure/route-map



# match ipv6 address prefix-list

match ipv6 address prefix-list <ipv6-pfl-name> + | no match ipv6 address prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
address	Match address of route or match packet
prefix-list	Match entries of prefix-lists
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	

## Command Mode

- /exec/configure/route-map

## match ipv6 multicast

```
{ match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group <gprefix> } | { source <ipv6src> } } + } | { match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group-range <gaddr_start> to <gaddr_end> } | { source <ipv6src> } } + } | { no match ipv6 multicast }
```

### Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
multicast	Match multicast attributes
rp	Rendezvous point
rp-type	(Optional) Multicast rendezvous point type
<i>ipv6rptype</i>	(Optional) IPv6 rendezvous point type
group	Multicast group address
group-range	Multicast Group address range
to	Range
source	Multicast source address

### Command Mode

- /exec/configure/route-map

# match ipv6 next-hop prefix-list

match ipv6 next-hop prefix-list <ipv6-pfl-name> + | no match ipv6 next-hop prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +

## Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
next-hop	Match next-hop address of route
prefix-list	Match entries of prefix-lists
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	

## Command Mode

- /exec/configure/route-map

## match ipv6 route-source prefix-list

```
match ipv6 route-source prefix-list <ipv6-pfl-name> + | no match ipv6 route-source prefix-list {
<ipv6-pfl-name> | <ipv6-pfl-name> } +
```

### Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
route-source	Match advertising source address of route
prefix-list	Match entries of prefix-lists
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	
<i>ipv6-pfl-name</i>	

### Command Mode

- /exec/configure/route-map

# match metric

[no] match metric { <measure> [ <plus-minus> <deviation> ] } +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
metric	Match metric of route
<i>plus-minus</i>	(Optional) +/-
<i>measure</i>	Metric value
<i>deviation</i>	(Optional) Deviation value

## Command Mode

- /exec/configure/route-map

# match protocol

```
[no] match protocol { arp | mpls [ router-alert | exp <exp_value> ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
protocol	Protocol
arp	IP ARP
mpls	Multi-protocol Label Switching
router-alert	(Optional) Match packets with router-alert label set to 1 for OTV Overlay frames
exp	(Optional) Match packets on MPLS exp bits
<i>exp_value</i>	(Optional) Exp bits value

## Command Mode

- /exec/configure/cmap

# match protocol

[no] match protocol { fcoe | iscsi | tcp }

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
protocol	Protocol
fcoe	FCoE
iscsi	ISCSI
tcp	TCP

## Command Mode

- /exec/configure/class-map/type/uf

# match qos-group

[no] match qos-group { <qos-group-list> } +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group	QoS Group
<i>qos-group-list</i>	List of qos-group values

## Command Mode

- /exec/configure/class-map/type/queuing



# match qos-group

[no] match qos-group <qos-group-list>

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group	QoS Group
<i>qos-group-list</i>	List of qos-group values

## Command Mode

- /exec/configure/class-map/type/uf

## match qos-group2 (queuing)

[no] match qos-group2 { <qos-group-list> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group2	QoS Group
<i>qos-group-list</i>	List of qos-group values

### Command Mode

- /exec/configure/class-map/type/queuing

## match qos-group2 (uf)

[no] match qos-group2 <qos-group-list>

### Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group2	QoS Group
<i>qos-group-list</i>	Qos-group value

### Command Mode

- /exec/configure/class-map/type/uf

# match redirect

[no] match redirect <opt\_match\_redirect>

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
redirect	Match redirected packets
<i>opt_match_redirect</i>	Match criteria for redirected packets

## Command Mode

- /exec/configure/cmap

# match route-type

[no] match route-type { external | internal | level-1 | level-2 | local | nssa-external | type-1 | type-2 | inter-area | intra-area } +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
route-type	Match route-type of route
external	external route (BGP, EIGRP and OSPF type 1/2)
internal	internal route (including OSPF intra/inter area)
level-1	IS-IS level-1 route
level-2	IS-IS level-2 route
local	locally generated route
nssa-external	nssa-external route (OSPF type 1/2)
type-1	OSPF external type 1 route
type-2	OSPF external type 2 route
inter-area	OSPF inter area route
intra-area	OSPF intra area route

## Command Mode

- /exec/configure/route-map

# match source-protocol

[no] match source-protocol <src\_prot> +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
source-protocol	Match source protocol
<i>src_prot</i>	Protocol instance name

## Command Mode

- /exec/configure/route-map

# match tag

[no] match tag <tagid> +

## Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
tag	Match tag of route
<i>tagid</i>	Tag value

## Command Mode

- /exec/configure/route-map

# match transport

[no] match transport { destination-port | source-port }

## Syntax Description

match	Specify a key field
transport	Transport layer fields
destination-port	Transport destination port
source-port	Transport source port

## Command Mode

- /exec/configure/nfm-record



# max-lsa

[no] max-lsa <maximum-number> [ <threshold> ] [ warning-only | [ ignore-time <ignore-time-minutes> ] [ ignore-count <ignore-count-number> ] [ reset-time <reset-time-minutes> ] ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
max-lsa	Feature to limit the number of non-self-originated LSAs
<i>maximum-number</i>	Set maximum number of non self-generated LSAs
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
ignore-time	(Optional) Set time during which all adjacencies are suppressed
<i>ignore-time-minutes</i>	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
<i>ignore-count-number</i>	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
<i>reset-time-minutes</i>	(Optional) reset-time in minutes

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# max-lsa

[no] max-lsa <maximum-number> [ <threshold> ] [ warning-only | [ ignore-time <ignore-time-minutes> ] [ ignore-count <ignore-count-number> ] [ reset-time <reset-time-minutes> ] ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
max-lsa	Feature to limit the number of non-self-originated LSAs
<i>maximum-number</i>	Set maximum number of non self-generated LSAs
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
ignore-time	(Optional) Set time during which all adjacencies are suppressed
<i>ignore-time-minutes</i>	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
<i>ignore-count-number</i>	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
<i>reset-time-minutes</i>	(Optional) reset-time in minutes

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [ <lifetime> ]

## Syntax Description

no	Negate a command or set its defaults
max-lsp-lifetime	Set maximum LSP lifetime
<i>lifetime</i>	Maximum LSP lifetime in seconds

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [ <lifetime> ]

## Syntax Description

no	Negate a command or set its defaults
max-lsp-lifetime	Set maximum LSP lifetime
<i>lifetime</i>	Maximum LSP lifetime in seconds

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ include-stub ] [ on-startup [ <timeout> ]
[ wait-for bgp <tag> ] ] [ summary-lsa [ <max-metric-sumlsa> ] ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
max-metric	Maximize the cost metric
external-lsa	(Optional) External LSAs
<i>max-metric-extlsa</i>	(Optional) Max metric value for external LSAs
include-stub	(Optional) Advertise Max metric for Stub links as well
on-startup	(Optional) Effective only at startup
<i>timeout</i>	(Optional) Wait period in seconds after startup
wait-for	(Optional) Wait for an event to advertise normal metric
bgp	(Optional) BGP Convergence
<i>tag</i>	(Optional) Tag of BGP to wait for
summary-lsa	(Optional) Summary LSAs
<i>max-metric-sumlsa</i>	(Optional) Max metric value for summary LSAs

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ stub-prefix-lsa ] [ on-startup [ <timeout> ] ] [ wait-for bgp <tag> ] ] [ inter-area-prefix-lsa [ <max-metric-sumlsa> ] ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
max-metric	Maximize the cost metric
external-lsa	(Optional) External LSAs
<i>max-metric-extlsa</i>	(Optional) Max metric value for external LSAs
stub-prefix-lsa	(Optional) Advertise Max metric for Stub links as well
on-startup	(Optional) Effective only at startup
<i>timeout</i>	(Optional) Wait period in seconds after startup
wait-for	(Optional) Wait for an event to advertise normal metric
bgp	(Optional) BGP Convergence
<i>tag</i>	(Optional) Tag of BGP to wait for
inter-area-prefix-lsa	(Optional) Inter-area-prefix LSAs
<i>max-metric-sumlsa</i>	(Optional) Max metric value for summary LSAs

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# max-ports

[ vmware ] max-ports <i0>

## Syntax Description

vmware	(Optional) VMware configuration
max-ports	Max ports on which this profile can be inherited
<i>i0</i>	Enter the max-number of ports

## Command Mode

- /exec/configure/port-profile

# max-ports

[no] [ vmware ] max-ports

## Syntax Description

no	Negate a command or set its defaults
vmware	(Optional) VMware configuration
max-ports	Max ports on which this profile can be inherited

## Command Mode

- /exec/configure/port-profile



# maxas-limit

maxas-limit <as-limit> | no maxas-limit [ <as-limit> ]

## Syntax Description

no	Negate a command or set its defaults
maxas-limit	Allow AS-PATH attribute from EBGP neighbor imposing a limit on number of ASes
<i>as-limit</i>	Number of ASes in the AS-PATH attribute

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# maximum-paths

maximum-paths <max-paths> | no maximum-paths [ <max-paths> ]

## Syntax Description

no	Negate a command or set its defaults
maximum-paths	RIP set maximum paths per route
<i>max-paths</i>	Maximum paths per prefix

## Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

## maximum-paths (router-ospf3-af-ipv6)

maximum-paths <max-paths> | no maximum-paths [ <max-paths> ]

### Syntax Description

no	Negate a command or set its defaults
maximum-paths	Maximum paths per destination
<i>max-paths</i>	Maximum paths per destination

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## maximum-paths (router-bgp-af)

maximum-paths [ *ibgp* ] <mpath-count> | no maximum-paths [ *ibgp* ] [ <mpath-count> ]

### Syntax Description

no	Negate a command or set its defaults
maximum-paths	Forward packets over multipath paths
<i>ibgp</i>	(Optional) Configure multipath for IBGP paths
<i>mpath-count</i>	Number of parallel paths

### Command Mode

- /exec/configure/router-bgp/router-bgp-af

## maximum-paths (router-igrp-af-common)

{ { maximum-paths <num-paths> } | { no maximum-paths [ <num-paths> ] } }

### Syntax Description

no	Negate a command or set its defaults
maximum-paths	Forward packets over multiple paths
<i>num-paths</i>	Number of paths

### Command Mode

- /exec/configure/router-igrp/router-igrp-vrf-common /exec/configure/router-igrp/router-igrp-af-common

## maximum-paths (vrf)

maximum-paths <max-paths> | no maximum-paths [ <max-paths> ]

### Syntax Description

no	Negate a command or set its defaults
maximum-paths	Maximum paths per destination
<i>max-paths</i>	Maximum paths per destination

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## maximum-paths (router-isis-af-ipv6)

maximum-paths <max-paths> | no maximum-paths [ <max-paths> ]

### Syntax Description

no	Negate a command or set its defaults
maximum-paths	Set maximum paths per destination
<i>max-paths</i>	Maximum paths per destination

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv6

# maximum-paths eibgp

maximum-paths eibgp <mpath-count> | no maximum-paths eibgp [ <mpath-count> ]

## Syntax Description

no	Negate a command or set its defaults
maximum-paths	Forward packets over multipath paths
eibgp	Configure multipath for both EBGP and IBGP paths
<i>mpath-count</i>	Number of parallel paths

## Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6



# maximum-peers

{ maximum-peers <limit> | no maximum-peers [ <limit> ] }

## Syntax Description

no	Negate a command or set its defaults
maximum-peers	Maximum number of peers for this prefix
<i>limit</i>	Max. peers limit

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-prefix

# maximum-prefix

maximum-prefix <limit> [ <percent> ] [ restart <restart-time> | warning-only ] | { no | default } maximum-prefix [ <limit> [ <percent> ] [ restart <restart-time> | warning-only ] ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
maximum-prefix	Maximum number of prefixes from this neighbor
<i>limit</i>	Max. prefix limit
<i>percent</i>	(Optional) Threshold percentage at which to generate a warning
restart	(Optional) Restart bgp connection after limit is exceeded
<i>restart-time</i>	(Optional) Restart interval in minutes
warning-only	(Optional) Only give a warning message when limit is exceeded

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

## maximum-prefix (router-eigrp)

```
{ { maximum-prefix <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [
reset-time <time2> ] [ dampened ] } | { no maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart
<time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened ] ] } }
```

### Syntax Description

no	Negate a command or set its defaults
maximum-prefix	Maximum number of IP prefixes acceptable in aggregate
<i>value</i>	Number of IP prefixes for maximum-prefix limit
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Only give warning message when limit is exceeded
restart	(Optional) Duration for which a prefix source is ignored
<i>time1</i>	(Optional) Restart interval in minutes
restart-count	(Optional) Number of times sessions are auto-restarted
<i>count</i>	(Optional) Number of times
reset-time	(Optional) Duration after which restart history is cleared
<i>time2</i>	(Optional) Reset time in minutes
dampened	(Optional) Exponentially increase restart time interval

### Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common
- /exec/configure/router-eigrp/router-eigrp-af-common

# maximum-prefix

maximum-prefix <limit> [ <percent> ] [ restart <restart-time> | warning-only ] | { no | default } maximum-prefix [ <limit> [ <percent> ] [ restart <restart-time> | warning-only ] ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
maximum-prefix	Maximum number of prefixes from this neighbor
<i>limit</i>	Max. prefix limit
<i>percent</i>	(Optional) Threshold percentage at which to generate a warning
restart	(Optional) Restart bgp connection after limit is exceeded
<i>restart-time</i>	(Optional) Restart interval in minutes
warning-only	(Optional) Only give a warning message when limit is exceeded

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

## maximum routes

[no] maximum routes <limit> [ { <warnlevel> [ reinstall <threshold> ] } | warning-only ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
maximum	Set a limit
routes	Maximum number of routes allowed in this routing table
<i>limit</i>	Maximum number of routes allowed
<i>warnlevel</i>	(Optional) Threshold value (%) at which to generate a warning msg
reinstall	(Optional) Reinstall previous rejected route due to over maximum route limit
<i>threshold</i>	(Optional) Threshold value (%) at which to reinstall routes back to VRF
warning-only	(Optional) Only give a warning message if limit is exceeded

### Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

# mcast-group

mcast-group <maddr1> [ <maddr2> ] | no mcast-group

## Syntax Description

no	Negate a command or set its defaults
mcast-group	NVE Multicast Group
<i>maddr1</i>	Multicast IP Prefix
<i>maddr2</i>	(Optional) Multicast IP Prefix

## Command Mode

- /exec/configure/if-nve/vni

# mdix auto

{ mdix auto | no mdix [ auto ] }

## Syntax Description

no	Negate a command or set its defaults
mdix	Enable auto mdix mode
auto	Enable auto mdix mode

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# medium

{ medium { broadcast | p2p } | no medium { broadcast | p2p } }

## Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
broadcast	Broadcast medium
p2p	Point-to-Point medium

## Command Mode

- /exec/configure/if-ethernet-p2p-switch /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-l3-non-member /exec/configure/if-port-channel /exec/configure/if-remote-ethernet-sub /exec/configure/if-eth-port-channel-p2p /exec/configure/if-ethernet-p2p-m



# medium

medium <medium-type> | no medium <medium-type>

## Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
<i>medium-type</i>	

## Command Mode

- /exec/configure/if-vlan-common

# medium broadcast

{ medium broadcast | no medium broadcast }

## Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
broadcast	Broadcast medium

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p

# medium p2p

{ medium p2p | no medium p2p }

## Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
p2p	Point-to-Point medium

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub

# member vni

[no] member vni <vni-range> mcast-group <maddr1> [ <maddr2> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
member	NVE VN-Segment Membership
vni	Virtual Network Identifier
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008
mcast-group	NVE Multicast Group
<i>maddr1</i>	Multicast IP Prefix
<i>maddr2</i>	(Optional) Multicast IP Prefix

## Command Mode

- /exec/configure/if-nve

# member vni

[no] member vni <vni-range>

## Syntax Description

no	(Optional) Negate a command or set its defaults
member	NVE VN-Segment Membership
vni	Virtual Network Identifier
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008

## Command Mode

- /exec/configure/if-nve

# member vni

[no] member vni <vni-range> associate-vrf

## Syntax Description

no	(Optional) Negate a command or set its defaults
member	NVE VN-Segment Membership
vni	Virtual Network Identifier
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008
associate-vrf	Associate vni with a vrf

## Command Mode

- /exec/configure/if-nve

# merge config

merge config <from-file> [ show-only ]

## Syntax Description

merge	merge
config	merge configuration (to running-config)
<i>from-file</i>	the file containing the destination configuration, a patch will be created and applied to the running-config's matching section (format according to 'show run section' command output)
show-only	(Optional) only show the patch, don't execute it

## Command Mode

- /exec

# message-digest-key

```
{ { message-digest-key <keyid> md5 <key> } | { no message-digest-key [ <keyid> md5 <key> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
message-digest-key	Message digest authentication password (key)
<i>keyid</i>	Key ID
md5	Use MD5 algorithm
<i>key</i>	The OSPF password (key)

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink



## message-digest-key (router-ospf-slink)

```
{ { message-digest-key <keyid> md5 <key> } | { no message-digest-key [ <keyid> md5 <key> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
message-digest-key	Message digest authentication password (key)
<i>keyid</i>	Key ID
md5	Use MD5 algorithm
<i>key</i>	OSPF password (key)

### Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

# metric-style

[no] metric-style { transition }

## Syntax Description

no	(Optional) Negate a command or set its defaults
metric-style	Configure metric style used in advertised LSPs
transition	Use both narrow and wide metric style

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# metric direct 0

[no] metric direct 0

## Syntax Description

no	(Optional) Negate a command or set its defaults
metric	Cost of direct routes
direct	Cost of direct routes
0	direct route cost is zero to be compatible with IOS

## Command Mode

- /exec/configure/router-rip

# metric maximum-hops

```
{ { metric maximum-hops <hops> } | { no metric maximum-hops [ <hops> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
maximum-hops	Advertise EIGRP routes greater than <hops> as unreachable
<i>hops</i>	Hop count

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# metric rib-scale

{ { metric rib-scale <rib-scale> } | { no metric rib-scale [ <rib-scale> ] } }

## Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
rib-scale	Defines RIB scaling value
<i>rib-scale</i>	Rib scale

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# metric version 64bit

{ { metric version 64bit } | { no metric version [ 64bit ] } }

## Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
version	Modify EIGRP metric version
64bit	64 bit metric version

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# metric weights

```
{ { metric weights <tos> <k1> <k2> <k3> <k4> <k5> [ <k6> ] } | { no metric weights [ <tos> <k1> <k2> <k3> <k4> <k5> [ <k6> ] ] } }
```

## Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
weights	Modify EIGRP metric coefficients
<i>tos</i>	Type Of Service (Only TOS 0 supported)
<i>k1</i>	K1
<i>k2</i>	K2
<i>k3</i>	K3
<i>k4</i>	K4
<i>k5</i>	K5
<i>k6</i>	(Optional) K6

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# mgmt-policy

```
{ no mgmt-policy <policy-name> } | { mgmt-policy <policy-name> { permit | deny } [ [ ip { <ip-addr> [ <ip-mask> ] } ] | [ ip6 <ipv6-prefix> ] ] [ protocol { tcp | udp | icmp } ] [ src-port <srcport> [ <srcport-end> ] ] [ dest-port <dstport> [ <dstport-end> ] ] }
```

## Syntax Description

no	Negate a command or set its defaults
mgmt-policy	PM Management Policy
<i>policy-name</i>	Name of the policy
permit	Permit access
deny	Deny access
ip	(Optional) IPV4 address
<i>ip-addr</i>	(Optional) IPV4 source address/subnet
<i>ip-mask</i>	(Optional) IPV4 mask
ip6	(Optional) IPV6 Address
protocol	(Optional) Protocol
tcp	(Optional) TCP protocol
udp	(Optional) UDP protocol
icmp	(Optional) ICMP protocol
src-port	(Optional) Source port
<i>srcport</i>	(Optional) Source port
<i>srcport-end</i>	(Optional) Source Port end
dest-port	(Optional) Destination port
<i>dstport</i>	(Optional) Destination port
<i>dstport-end</i>	(Optional) Destination Port end

## Command Mode

- /exec/configure



# mkdir

mkdir <uri0>

## Syntax Description

mkdir	Create new directory
<i>uri0</i>	Directory name

## Command Mode

- /exec

# mode

[no] mode <mode-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Hot-standby mode
<i>mode-id</i>	Node Mode

## Command Mode

- /exec/configure/itd-dg-node

# mode

[no] mode <numsample> every <period>

## Syntax Description

mode	Define the Sampler mode
<i>numsample</i>	Number of samples per sampling - 64 max
every	Time-based sampling
<i>period</i>	Sampling Time Period in milliseconds - 64000 max

## Command Mode

- /exec/configure/nfm-sampler

# mode

[no] mode <numsample> out-of <samples> | no mode

## Syntax Description

mode	Define the Sampler mode
<i>numsample</i>	Number of samples per sampling - 63 max
out-of	M out of N packets
<i>samples</i>	Number of packets in each sampling - 8191 max

## Command Mode

- /exec/configure/nfm-sampler

# mode openflow

[no] mode openflow

## Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Configure the interface operational mode
openflow	Disable/Enable openflow on the interface

## Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-eth-non-member

# mode tap-aggregation

[no] mode tap-aggregation

## Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Configure the interface operational mode
tap-aggregation	Disable/Enable tap aggregation on the interface

## Command Mode

- /exec/configure/if-switching

# monitor erspan granularity

[no] monitor erspan granularity { 100\_ms | 100\_ns | 1588 | ns }

## Syntax Description

no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
granularity	Configure granularity for ERSPAN Type III sessions
100_ms	100 microseconds
100_ns	100 nanoseconds
1588	1588 in seconds/nanoseconds
ns	nanoseconds

## Command Mode

- /exec/configure

## monitor erspan origin ip-address

[no] monitor erspan origin ip-address <ip> [ global ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
origin	Configure the erspan origin ip address
ip-address	Configure global origin IP address
<i>ip</i>	
global	(Optional) Configure in default VDC across all VDCs

### Command Mode

- /exec/configure



# monitor erspan switch-id

[no] monitor erspan switch-id <switch\_id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
switch-id	Configure the erspan switch-id
<i>switch_id</i>	erspan-switch-id

## Command Mode

- /exec/configure

# move

move <uri0> <uri1>

## Syntax Description

move	Move files
<i>uri0</i>	Source file path
<i>uri1</i>	Destination file path

## Command Mode

- /exec

# mping

mping [ { broadcast | lc module <i0> | sup module <i1> } ]

## Syntax Description

mping	run mping
broadcast	(Optional) mping broadcast
lc	(Optional) mping line-cards
module	(Optional) slot information
<i>i0</i>	(Optional)
sup	(Optional) mping supervisor
module	(Optional) slot information
<i>i1</i>	(Optional)

## Command Mode

- /exec

# mpls traffic-eng tunnels

[no] mpls traffic-eng tunnels

## Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
tunnels	enable MPLS Traffic Engineering tunnels

## Command Mode

- /exec/configure/if-igp /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

# mst

mst <mst-id> designated priority <prio> | no mst <mst-id> designated priority [ <prio> ]

## Syntax Description

no	Negate a command or set its defaults
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
designated	Set the designated bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

## Command Mode

- /exec/configure/spanning-tree/pseudo

# mst

mst <mst-id> root priority <prio> | no mst <mst-id> root priority [ <prio> ]

## Syntax Description

no	Negate a command or set its defaults
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
root	Set the root bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

## Command Mode

- /exec/configure/spanning-tree/pseudo

# mtu

[no] mtu [ <mtu-val> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
mtu	Configure MTU
<i>mtu-val</i>	(Optional) Bytes

## Command Mode

- /exec/configure/if-any-tunnel

# mtu1

[no] mtu1 <value>

## Syntax Description

no	(Optional) Negate a command or set its defaults
mtu1	MTU for the CoS
<i>value</i>	MTU value

## Command Mode

- /exec/configure/policy-map/type/uf/class



# mtu

mtu <mtu\_val> | no mtu [ <mtu\_val> ]

## Syntax Description

no	Negate a command or set its defaults
mtu	Configure mtu for the port
<i>mtu_val</i>	

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub /exec/configure/if-sub /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# mtu

[no] mtu <value>

## Syntax Description

no	(Optional) Negate a command or set its defaults
mtu	MTU for the CoS
<i>value</i>	MTU value

## Command Mode

- /exec/configure/policy-map/type/uf/class

# mtu

mtu <mtu\_val> | no mtu

## Syntax Description

no	Negate a command or set its defaults
mtu	Set the interface Maximum Transmission Unit (MTU)
<i>mtu_val</i>	MTU size in bytes

## Command Mode

- /exec/configure/if-vlan-common

# multi-topology

[no] multi-topology [ transition ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
multi-topology	Enable multitopology for IPV6
transition	(Optional) Configure multitopology transition mode

## Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6



## N Commands

---

- [name-lookup](#), on page 2107
- [name-lookup](#), on page 2108
- [name](#), on page 2109
- [name \(hsrp\\_ipv6\)](#), on page 2110
- [name \(glbp\)](#), on page 2111
- [nat destination](#), on page 2112
- [negotiate auto](#), on page 2113
- [neighbor-down fib-accelerate](#), on page 2114
- [neighbor](#), on page 2115
- [neighbor \(router-bgp-vrf\)](#), on page 2116
- [neighbor \(router-bgp\)](#), on page 2117
- [neighbor \(router-bgp-vrf\)](#), on page 2118
- [neighbor \(router-eigrp-af-common\)](#), on page 2119
- [neighbor \(ldp\)](#), on page 2120
- [net](#), on page 2121
- [net](#), on page 2122
- [network](#), on page 2123
- [network \(router-bgp-vrf-af-ipv4\)](#), on page 2124
- [network \(router-bgp-vrf-af-ipv6\)](#), on page 2125
- [network \(router-eigrp-af-ipv4\)](#), on page 2126
- [network \(vrf\)](#), on page 2127
- [next-hop-self](#), on page 2128
- [next-hop-self \(router-bgp-neighbor-af-ipv4-mdt\)](#), on page 2129
- [next-hop-third-party](#), on page 2130
- [next-hop](#), on page 2131
- [next-hop out-label](#), on page 2132
- [nexthop route-map](#), on page 2133
- [nexthop trigger-delay critical](#), on page 2134
- [no-more](#), on page 2135
- [no](#), on page 2136
- [no \(router-bgp-prefixneighbor\)](#), on page 2137
- [no \(router-bgp-prefixneighbor\)](#), on page 2138
- [no address-family ipv6 mvpn](#), on page 2139

- [no ip address](#), on page 2140
- [no ip address](#), on page 2141
- [no ipv6 address use-link-local-only](#), on page 2142
- [no ipv6 link-local](#), on page 2143
- [no ipv6 neighbor](#), on page 2144
- [no snmp-server enable traps ospf](#), on page 2145
- [no snmp-server enable traps ospfv3 rate-limit](#), on page 2146
- [no system default switchport](#), on page 2147
- [no system default switchport shutdown](#), on page 2148
- [node](#), on page 2149
- [nsf await-redis proto-convergence](#), on page 2150
- [ntp access-group](#), on page 2151
- [ntp authenticate](#), on page 2152
- [ntp authentication-key](#), on page 2153
- [ntp drop-aged-packet](#), on page 2154
- [ntp logging](#), on page 2155
- [ntp master](#), on page 2156
- [ntp peer](#), on page 2157
- [ntp rts-update](#), on page 2158
- [ntp server](#), on page 2159
- [ntp source-interface](#), on page 2160
- [ntp source](#), on page 2161
- [ntp sync-retry](#), on page 2162
- [ntp trusted-key](#), on page 2163
- [nv overlay evpn](#), on page 2164
- [nve interface](#), on page 2165
- [nve interface](#), on page 2166
- [nxapi](#), on page 2167
- [nxapi certificate](#), on page 2168
- [nxapi use-vrf](#), on page 2169

# name-lookup

[no] name-lookup

## Syntax Description

no	(Optional) Negate a command or set its defaults
name-lookup	Display OSPF router ids as DNS names

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# name-lookup

[no] name-lookup

## Syntax Description

no	(Optional) Negate a command or set its defaults
name-lookup	Enable Name Lookup for OSPF Neighbors

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf



# name

name <name-val> | no name [ <name-val> ]

## Syntax Description

no	Negate a command or set its defaults
name	Set configuration name
<i>name-val</i>	Configuration name

## Command Mode

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

## name (hsrp\_ipv6)

name [ <name> ] | no name

### Syntax Description

no	Negate a command or set its defaults
name	Redundancy name string
<i>name</i>	(Optional) name string

### Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

## name (glbp)

name <redundancy-name> | no name [ <redundancy-name> ]

### Syntax Description

no	Negate a command or set its defaults
name	Redundancy name
<i>redundancy-name</i>	Name String

### Command Mode

- /exec/configure/if-eth-any/glbp

# nat destination

{ nat destination } | { no nat destination }

## Syntax Description

no	Negate a command or set its defaults
nat	Network Address Translation
destination	Destination NAT

## Command Mode

- /exec/configure/itd

# negotiate auto

negotiate auto | no negotiate auto

## Syntax Description

no	Negate a command or set its defaults
negotiate	Configure link negotiation parameters
auto	Configure auto-negotiation

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# neighbor-down fib-accelerate

[no] neighbor-down fib-accelerate

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor-down	Handle BGP neighbor down event, due to various reasons
fib-accelerate	Accelerate the hardware updates for IP/IPv6 adjacencies for neighbor

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# neighbor

[no] neighbor { <neighbor-id> | <ipv6-neighbor-id> } [ remote-as <asn> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

## Command Mode

- /exec/configure/router-bgp

## neighbor (router-bgp-vrf)

[no] neighbor { <neighbor-id> | <ipv6-neighbor-id> } [ remote-as <asn> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

### Command Mode

- /exec/configure/router-bgp/router-bgp-vrf



## neighbor (router-bgp)

```
[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [ remote-as [ <asn> | route-map <rmap-name> ] ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-prefix</i>	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional) Route-map name

### Command Mode

- /exec/configure/router-bgp

## neighbor (router-bgp-vrf)

```
[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [ remote-as [ <asn> | route-map <rmap-name> ] ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-prefix</i>	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional) Route-map name

### Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

## neighbor (router-eigrp-af-common)

```
{ { neighbor <address> { <interface> | maximum-prefix <value> [ warning-only ] } } | { no neighbor <address>
[ <interface> | maximum-prefix <value> [ warning-only ] ] } } | { { neighbor maximum-prefix <value> [
<threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened
] } | { no neighbor maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count
<count> ] ] } }
```

### Syntax Description

no	Negate a command or set its defaults
neighbor	Specify a neighbor router
<i>interface</i>	Interface
<i>address</i>	Neighbor address
maximum-prefix	Maximum number of IP prefixes acceptable from a neighbor
<i>value</i>	Number of IP prefixes for maximum-prefix limit
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Only give warning message when limit is exceeded
restart	(Optional) Duration for which a prefix source is ignored
<i>time1</i>	(Optional) Restart interval in minutes
restart-count	(Optional) Number of times sessions are auto-restarted
<i>count</i>	(Optional) Number of times
reset-time	(Optional) Duration after which restart history is cleared
<i>time2</i>	(Optional) Reset time in minutes
dampened	(Optional) Exponentially increase restart time interval

### Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

## neighbor (ldp)

```
neighbor [ vrf { <vrf-name> | <vrf-known-name> } ] <ipaddr> { implicit-withdraw | labels accept <pfx-list>
| targeted } | no neighbor [ vrf { <vrf-name> | <vrf-known-name> } ] <ipaddr> [ implicit-withdraw | labels
accept | targeted ]
```

### Syntax Description

no	Negate a command or set its defaults
neighbor	Configure neighbor parameters
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ipaddr</i>	IP address for LDP neighbor
implicit-withdraw	Enable LDP Implicit Withdraw Label
labels	Configure label binding exchange controls
accept	Specify label bindings to accept
<i>pfx-list</i>	Name of prefix list
targeted	Establish targeted session

### Command Mode

- /exec/configure/ldp

# net

[no] net <net>

## Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
<i>net</i>	NET in form of XX.XXXX. ... .XXXX.XX

## Command Mode

- /exec/configure/otv-isis

# net

[no] net <net>

## Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
<i>net</i>	NET in form of XX.XXXX. ... .XXXX.XX

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# network

[no] network { <ip-dest> <ip-mask> | <ip-prefix> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
network	RIP IP network
<i>ip-dest</i>	IP addr format
<i>ip-mask</i>	IP network mask format
<i>ip-prefix</i>	Exact prefix

## Command Mode

- /exec/configure/router-rip/router-rip-af-ipv4 /exec/configure/router-rip/router-rip-vrf-af-ipv4

## network (router-bgp-vrf-af-ipv4)

[no] network { <ip-addr> mask <ip-mask> | <ip-prefix> } [ route-map <rmap-name> | summarize ] +

### Syntax Description

no	(Optional) Negate a command or set its defaults
network	Configure an IP prefix to advertise
<i>ip-addr</i>	IP network to advertise
mask	Configure the mask of the IP prefix to advertise
<i>ip-mask</i>	Dotted 4-octet mask
<i>ip-prefix</i>	IP prefix in CIDR format
route-map	(Optional) Apply route-map to modify attributes
<i>rmap-name</i>	(Optional) Route-map name
summarize	(Optional) Summarize more specific prefixes from routing table

### Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4



## network (router-bgp-vrf-af-ipv6)

[no] network <ipv6-prefix> [ route-map <rmap-name> | summarize ] +

### Syntax Description

no	(Optional) Negate a command or set its defaults
network	Configure an IPv6 prefix to advertise
route-map	(Optional) Apply route-map to modify attributes
<i>rmap-name</i>	(Optional) Route-map name
summarize	(Optional) Summarize more specific prefixes from routing table

### Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

## network (router-eigrp-af-ipv4)

[no] network { { <address> <mask> } | <prefix> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
network	Enable routing on an IP network
<i>address</i>	Network number
<i>mask</i>	EIGRP wild card bits
<i>prefix</i>	IP prefix in slash format

### Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-ipv4

## network (vrf)

[no] network { <ip-dest> <ip-mask> | <ip-prefix> } area { <area-id-ip> | <area-id-int> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
network	Enable routing on an IP network
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
area	Configure area properties
<i>area-id-ip</i>	OSPF area ID in IP address format
<i>area-id-int</i>	OSPF area ID as a decimal format

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# next-hop-self

[ no | default ] next-hop-self

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

## next-hop-self (router-bgp-neighbor-af-ipv4-mdt)

[ no | default ] next-hop-self

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

# next-hop-third-party

[ no | default ] next-hop-third-party

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-third-party	Compute a third-party nexthop if possible

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

# next-hop

```
[no] { next-hop [ backup <interface> ] <next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
next-hop	Nexthop
<i>next-hop</i>	Destination IPv4 next hop
<i>static-outlabel</i>	Label Value
<i>interface</i>	(Optional) Back up interface
out-label	Output label
explicit-null	IETF MPLS IPv4 explicit null label (0)
implicit-null	IETF MPLS implicit null label (3)
auto-resolve	auto resolve the destination path
backup	(Optional) Backup destination

## Command Mode

- /exec/configure/mpls\_static/ipv4/input

## next-hop out-label

```
[no] { next-hop [ backup <interface> ] <ipv6-next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
next-hop	Nexthop
<i>static-outlabel</i>	Label Value
<i>interface</i>	(Optional) Back up interface
out-label	Output label
explicit-null	IETF MPLS IPv6 explicit null label (2)
implicit-null	IETF MPLS implicit null label (3)
auto-resolve	auto resolve the destination path
backup	(Optional) Backup destination

### Command Mode

- /exec/configure/mpls\_static/ipv6/input



# nexthop route-map

[no] nexthop route-map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
nexthop	Nexthop tracking
route-map	Route map for valid nexthops
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af
- /exec/configure/router-bgp/router-bgp-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

## nexthop trigger-delay critical

```
{ nexthop trigger-delay critical <criticaldelay> non-critical <noncriticaldelay> } | { no nexthop trigger-delay }
```

### Syntax Description

no	Negate a command or set its defaults
nexthop	Nexthop tracking
trigger-delay	Set the delay to trigger nexthop tracking
critical	Nexthop changes affecting reachability
non-critical	Other nexthop changes
<i>noncriticaldelay</i>	Delay value (milliseconds)
<i>criticaldelay</i>	Delay value (milliseconds)

### Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-af-ipv6-vpn /exec/configure/router-bgp/router-bgp-af-ipv6-vpn-ipv4 /exec/configure/router-bgp/router-bgp-af-ipv6-vpn-ipv6 /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn-ipv4 /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn-ipv6

# no-more

no-more

## Syntax Description

	Pipe command output to filter
no-more	Turn-off pagination for command output

## Command Mode

- /output

## no

```
{ [ no | default ] } address-family ipv4 { unicast | multicast }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

## no (router-bgp-prefixneighbor)

{ [ no | default ] } address-family ipv6 { unicast | multicast }

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

## no (router-bgp-prefixneighbor)

{ [ no | default ] } address-family ipv4 mvpn

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mvpn	Configure Multicast VPN

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

## no address-family ipv6 mvpn

{ [ no | default ] } address-family ipv6 mvpn

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
mvpn	Configure Multicast VPN

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

## no ip address

[no] ip address [ { <ip-addr> <ip-mask> | <ip-prefix> } [ route-preference <pref> ] [ tag <tag> ] ] | ip address { <ip-addr> <ip-mask> | <ip-prefix> } [ route-preference <pref> ] [ tag <tag> ]

### Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
address	Configure IP address on interface
<i>ip-addr</i>	(Optional) IP address in format i.i.i.i
<i>ip-mask</i>	(Optional) IP network mask in format m.m.m.m
<i>ip-prefix</i>	(Optional) IP prefix and network mask length in format x.x.x.x/m
route-preference	(Optional) URIB route preference for local/direct routes
<i>pref</i>	(Optional) Local/direct route preference
tag	(Optional) URIB route tag value for local/direct routes
<i>tag</i>	(Optional) Local/direct tag value

### Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-mpls-tunnel /exec/configure/if-gre-tunnel /exec/configure/if-vsant /exec/configure/if-cpp



# no ip address

[no] ip address { <ip-addr> <ip-mask> | <ip-prefix> } secondary | ip address { <ip-addr> <ip-mask> | <ip-prefix> } secondary

## Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
address	Configure IP address on interface
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
<i>ip-prefix</i>	IP prefix and network mask length in format x.x.x.x/m
secondary	Configure additional IP addresses on interface

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsan /exec/configure/if-cpp

# no ipv6 address use-link-local-only

[no] ipv6 address use-link-local-only | ipv6 address use-link-local-only

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
use-link-local-only	Enable IPv6 on interface using only a single link-local address

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsan

# no ipv6 link-local

[no] ipv6 link-local [ <ipv6-addr> ] | ipv6 link-local <ipv6-addr>

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
link-local	Change format of link-local address

## Command Mode

- /exec/configure/if-vlan /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-igp /exec/configure/if-vsan

# no ipv6 neighbor

[no] ipv6 neighbor <ipv6-addr> [ <mac-addr> ] | ipv6 neighbor <ipv6-addr> <mac-addr>

## Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
neighbor	Configure IPv6 address to layer-2 address mapping
<i>mac-addr</i>	(Optional) Layer-2 MAC address

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

## no snmp-server enable traps ospf

```
{ { no snmp-server enable traps ospf [ <tag> ] rate-limit [ <window> <rate> ] } | { snmp-server enable traps ospf [ <tag> ] rate-limit <window> <rate> } }
```

### Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospf	Enable SNMP OSPF traps
<i>tag</i>	(Optional) Process tag
rate-limit	Trap rate limit values
<i>window</i>	(Optional) Rate limit window size in seconds
<i>rate</i>	(Optional) Max number of traps sent in window time
<i>tag</i>	(Optional)

### Command Mode

- /exec/configure

## no snmp-server enable traps ospfv3 rate-limit

```
{ { no snmp-server enable traps ospfv3 [ <tag> ] rate-limit } | { snmp-server enable traps ospfv3 [ <tag> ]
rate-limit <swindow> <rate> } }
```

### Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospfv3	Enable SNMP OSPFv3 traps
<i>tag</i>	(Optional) Process tag
rate-limit	Trap rate limit values
<i>swindow</i>	Rate limit window size in seconds
<i>rate</i>	Max number of traps sent in window time
<i>tag</i>	(Optional)

### Command Mode

- /exec/configure

# no system default switchport

{ no system default switchport }

## Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
switchport	Configure switchport

## Command Mode

- /exec/configure

# no system default switchport shutdown

{ no system default switchport shutdown }

## Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
switchport	Configure switchport
shutdown	Configure admin state

## Command Mode

- /exec/configure



# node

[no] node [ ip <ip-addr> | IPv6 <ip-addrv6> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
node	ITD node
ip	(Optional) ITD node IPv4 address
<i>ip-addr</i>	(Optional) ITD node IP4 prefix in format i.i.i.i
IPv6	(Optional) ITD node IPv6 address

## Command Mode

- /exec/configure/itd-device-group

# nsf await-redist-proto-convergence

{ [ no ] nsf await-redist-proto-convergence }

## Syntax Description

no	(Optional) Negate a command or set its defaults
nsf	Non-stop forwarding
await-redist-proto-convergence	Specify whether EIGRP should wait for other protocols to converge before advertising routes

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

## ntp access-group

[no] ntp access-group { peer | serve-only | serve | query-only } <acl-name>

### Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
access-group	NTP access-group
peer	access-group peer
serve	access-group serve
serve-only	access-group serve-only
query-only	access-group query-only
<i>acl-name</i>	Name of access list

### Command Mode

- /exec/configure

# ntp authenticate

[no] ntp authenticate

## Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
authenticate	Enable/Disable authentication

## Command Mode

- /exec/configure

# ntp authentication-key

[no] ntp authentication-key <number> md5 <md5> [ 0 | 7 ]

## Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
authentication-key	NTP authentication key
<i>number</i>	authentication key number (range 1-65535)
md5	use md5 authentication scheme
<i>md5</i>	MD5 string
0	(Optional) clear text
7	(Optional) encrypted

## Command Mode

- /exec/configure

# ntp drop-aged-packet

[no] ntp drop-aged-packet

## Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
drop-aged-packet	Enable or disable Riviera Timestamp Check.

## Command Mode

- /exec/configure

# ntp logging

[no] ntp logging

## Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
logging	Enable/Disable logging of NTPD Events

## Command Mode

- /exec/configure

# ntp master

[no] ntp master [ <stratum-no> ]

## Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
master	Act as NTP master clock
<i>stratum-no</i>	(Optional) Stratum number

## Command Mode

- /exec/configure



# ntp peer

```
[no] ntp peer <host0> [ prefer | key <keyid> | use-vrf { <vrf-name> | <vrf-known-name> } | minpoll <minpoll> | maxpoll <maxpoll> ] +
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
peer	NTP Peer address
<i>host0</i>	Hostname/IP address of the NTP Peer
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
<i>keyid</i>	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a peer
<i>minpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a peer
<i>maxpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 6]

## Command Mode

- /exec/configure

# ntp rts-update

[no] ntp rts-update

## Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
rts-update	Enable or disable RTS update to linecards.

## Command Mode

- /exec/configure

# ntp server

[no] ntp server <host0> [ prefer | key <keyid> | use-vrf { <vrf-name> | <vrf-known-name> } | minpoll <minpoll> | maxpoll <maxpoll> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
server	NTP server address
<i>host0</i>	Hostname/IP address of the NTP Server
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
<i>keyid</i>	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a server
<i>minpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a server
<i>maxpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 6]

## Command Mode

- /exec/configure

# ntp source-interface

[no] ntp source-interface <if\_index>

## Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
source-interface	Source interface sending NTP packets
<i>if_index</i>	Source interface

## Command Mode

- /exec/configure

# ntp source

[no] ntp source <ip-addr>

## Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP Configuration
source	Source of NTP packets
<i>ip-addr</i>	IPv4/IPv6 address

## Command Mode

- /exec/configure

# ntp sync-retry

ntp sync-retry

## Syntax Description

ntp	NTP configuration
sync-retry	Retry synchronization with configured servers

## Command Mode

- /exec

# ntp trusted-key

[no] ntp trusted-key <number>

## Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
trusted-key	NTP trusted-key
<i>number</i>	trusted-key number

## Command Mode

- /exec/configure

# nv overlay evpn

[no] nv overlay evpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
nv	Command to enable/disable features
overlay	Command to enable/disable features
evpn	Enable/Disable Ethernet VPN (EVPN)

## Command Mode

- /exec/configure



# nve interface

```
nve interface <nve-if> replication-server <rep-addr> { up | down }
```

## Syntax Description

nve	Configure NVE information
interface	Interface
<i>nve-if</i>	NVE interface
replication-server	Configure a replication server
<i>rep-addr</i>	Replication Server IP Address
up	mark replication-server up
down	mark replication-server down

## Command Mode

- /exec

# nve interface

nve interface <nve-if> remap-replication-servers

## Syntax Description

nve	Configure NVE information
interface	Interface
<i>nve-if</i>	NVE interface
remap-replication-servers	Remap Replication servers to VNIs

## Command Mode

- /exec

# nxapi

{ nxapi { http | https } port <s0> } | { no nxapi { http | https } } | { no nxapi { http | https } port <s0> }

## Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
s0	Port number. Please do not use well-known protocol ports
http	Http configuration
https	Https configuration
port	Port number

## Command Mode

- /exec/configure

# nxapi certificate

```
{ nxapi certificate { { httpskey { keyfile <uri0> | <line> } } | { httpsert { certfile <uri1> | <line1> } } | { enable } } }
```

## Syntax Description

nxapi	Configure nxapi
certificate	Https certificate configuration
httpskey	Https private key
httpsert	Https certificate
keyfile	Https key file
certfile	Https certificate file
enable	Enable the current certificate
<i>uri0</i>	File containing https private key for the user
<i>line</i>	nxapi https private key
<i>uri1</i>	File containing https certificate
<i>line1</i>	nxapi https certificate

## Command Mode

- /exec/configure

## nxapi use-vrf

```
{ nxapi use-vrf { management | default | <vrf_name> } } | { no nxapi use-vrf { management | default | <vrf_name> } }
```

### Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
use-vrf	vrf to be used for nxapi communication
management	management vrf
default	default vrf
<i>vrf_name</i>	name of the vrf

### Command Mode

- /exec/configure





## O Commands

---

- [obfl logging uuid](#), on page 2173
- [object-group ip address](#), on page 2174
- [object-group ip port](#), on page 2175
- [object-group ipv6 address](#), on page 2176
- [offset-list](#), on page 2177
- [onep](#), on page 2178
- [onep applications](#), on page 2179
- [onep install](#), on page 2180
- [onep stop](#), on page 2181
- [onep uninstall](#), on page 2182
- [open-fsm](#), on page 2183
- [operation-packet-priority](#), on page 2184
- [option exporter-stats timeout](#), on page 2185
- [option interface-table timeout](#), on page 2186
- [option sampler-table timeout](#), on page 2187
- [orib event-history](#), on page 2188
- [orib orib\\_api\\_init](#), on page 2189
- [ospfv3 bfd](#), on page 2190
- [ospfv3 cost](#), on page 2191
- [ospfv3 dead-interval](#), on page 2192
- [ospfv3 flood-bw-percentage](#), on page 2193
- [ospfv3 hello-interval](#), on page 2194
- [ospfv3 instance](#), on page 2195
- [ospfv3 mtu-ignore](#), on page 2196
- [ospfv3 network](#), on page 2197
- [ospfv3 network point-to-point](#), on page 2198
- [ospfv3 passive-interface](#), on page 2199
- [ospfv3 priority](#), on page 2200
- [ospfv3 retransmit-interval](#), on page 2201
- [ospfv3 shutdown](#), on page 2202
- [ospfv3 transmit-delay](#), on page 2203
- [overbudgetshut](#), on page 2204
- [overbudgetsyslog](#), on page 2205

- [overlay-encapsulation](#), on page 2206
- [overlay-encapsulation \(if-nve\)](#), on page 2207
- [overload rip](#), on page 2208
- [owner](#), on page 2209



# obfl logging uuid

obfl logging uuid <uuid> <log-file> msg <log\_str>

## Syntax Description

obfl	Perform the OBFL operation
logging	Perform the logging
uuid	UUID of the process
<i>uuid</i>	UUID of the process
<i>log-file</i>	Log File of your process
msg	Message to be Logged in the file
<i>log_str</i>	Type the message to be logged

## Command Mode

- /exec

# object-group ip address

[no] object-group ip address <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ip	IP Object groups
address	Address object group
<i>name</i>	object-group name

## Command Mode

- /exec/configure

# object-group ip port

[no] object-group ip port <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ip	IP Object groups
port	IP port object group (can be used in IPv4 and IPv6 access-lists)
<i>name</i>	object-group name

## Command Mode

- /exec/configure

## object-group ipv6 address

[no] object-group ipv6 address <name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ipv6	IPv6 Object groups
address	Address object group
<i>name</i>	object-group name

### Command Mode

- /exec/configure

# offset-list

[no] offset-list { { route-map <map> } | { prefix-list <list> } } { in | out } <offset> <interface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
offset-list	Add or subtract offset from EIGRP metrics
route-map	Use a route-map for offset-list selection
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for offset-list selection
<i>list</i>	Reference to prefix-list name
in	Perform offset on incoming updates
out	Perform offset on outgoing updates
<i>offset</i>	Offset
<i>interface</i>	Interface name

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# onep

[no] onep

## Syntax Description

no	(Optional) Negate a command or set its defaults
onep	Enable/Disable One Platform

## Command Mode

- /exec/configure

# onep applications

[no] onep applications <config-domain>

## Syntax Description

no	(Optional) Negate a command or set its defaults
onep	One Platform
applications	One platform applications
<i>config-domain</i>	Virtual service name or tag used by remote onep applications to retrieve its configuration

## Command Mode

- /exec/configure

# onep install

onep install <xsd-location> <config-domain>

## Syntax Description

onep	One Platform
install	install a CLI definition
<i>xsd-location</i>	the xsd file containing the onep application CLI definition
<i>config-domain</i>	virtual service name or tag used by remote onep applications to retrieve its configuration

## Command Mode

- /exec



# onep stop

```
onep stop { session { all | <onep-session-id> } }
```

## Syntax Description

onep	One Platform
stop	Stop specific activity
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name

## Command Mode

- /exec

# onep uninstall

onep uninstall <app-name> <app-version> <config-domain> [ force ]

## Syntax Description

onep	One Platform
uninstall	uninstall a CLI definition
<i>app-name</i>	application name
<i>app-version</i>	application version
<i>config-domain</i>	virtual service name or tag used by remote onep applications to retrieve its configuration
force	(Optional) force uninstallation

## Command Mode

- /exec

# open-fsm

[no] open-fsm

## Syntax Description

no	(Optional) Negate a command or set its defaults
open-fsm	Enable session open FSM for establishing BGP sessions

## Command Mode

- /exec/configure/router-bgp

# operation-packet-priority

{ { no | default } operation-packet-priority | operation-packet-priority { normal | high } }

## Syntax Description

no	
default	Set a command to its defaults
operation-packet-priority	Set operation packet properties
high	Priority high
normal	Priority normal

## Command Mode

- /exec/configure/ip-sla/jitter

## option exporter-stats timeout

{ [ no ] option exporter-stats timeout <time> | no option exporter-stats timeout }

### Syntax Description

option	Version 9 Option Templates and Data
exporter-stats	Exporter Statistics Option
timeout	Option resend time
<i>time</i>	Time in seconds

### Command Mode

- /exec/configure/nfm-exporter-v9

## option interface-table timeout

{ [ no ] option interface-table timeout <time> | no option interface-table timeout }

### Syntax Description

option	Version 9 Option Templates and Data
interface-table	Interface Table Option
timeout	Option resend time
<i>time</i>	Time in seconds

### Command Mode

- /exec/configure/nfm-exporter-v9

# option sampler-table timeout

{ [ no ] option sampler-table timeout <time> | no option sampler-table timeout }

## Syntax Description

option	Version 9 Option Templates and Data
sampler-table	Export Sampler Information
timeout	Option resend time
<i>time</i>	Time in seconds

## Command Mode

- /exec/configure/nfm-exporter-v9

## orib event-history

```
[no] orib event-history { cli | ipc | uroute | mroute | mroute_only | uhw | mhw | ha | internal } { size {
<size_in_text> | <size_in_kbytes> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
orib	Display ORIB information
event-history	ORIB event logs
cli	ORIB cli logs
ipc	ORIB ipc logs
uroute	ORIB unicast route logs
mroute	ORIB multicast route logs
mroute_only	ORIB multicast route logs without mhw
uhw	ORIB unicast platform logs
mhw	ORIB multicast platform logs
ha	ORIB ha logs
internal	ORIB internal logs
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

### Command Mode

- /exec/configure



## orib orib\_api\_init

```
{ orib orib_api_init <client-name> } | { orib orib_api_close } | { orib orib_add_route <client-name> <mac>
[ <nh> | <nh6> ] <if-name> } | { orib orib_delete_route <client-name> <mac> [ <nh> | <nh6> ] <if-name> }
```

### Syntax Description

orib	Use ORIB API routines from OTV process
orib_api_init	Call orib_api_init() from the OTV process
orib_api_close	Call orib_api_close() from the OTV process
orib_add_route	Call orib_add_route() from OTV process
orib_delete_route	Call orib_delete_route() from OTV process
<i>client-name</i>	Client name registered to ORIB process
<i>mac</i>	VLAN-ID/MAC Address tuple in vvvv-aaaa.bbbb.cccc format
<i>nh</i>	(Optional) Next-hop IPv4 address
<i>if-name</i>	Next-hop interface (iod)

### Command Mode

- /exec

# ospfv3 bfd

[no] ospfv3 bfd [ disable ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
bfd	Enable BFD on this interface
disable	(Optional) Disable BFD on this interface

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

# ospfv3 cost

```
{ ospfv3 cost <cost> } | { no ospfv3 cost [ <cost> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
cost	Cost associated with interface
<i>cost</i>	Cost value

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ospfv3 dead-interval

{ ospfv3 dead-interval <interval> } | { no ospfv3 dead-interval [ <interval> ] }

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
dead-interval	Dead interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ospfv3 flood-bw-percentage

[no] ospfv3 flood-bw-percentage <percentage>

## Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
flood-bw-percentage	Percentage of bandwidth used for flooding
<i>percentage</i>	Negate a command or set its defaults

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ospfv3 hello-interval

```
{ ospfv3 hello-interval <interval> } | { no ospfv3 hello-interval [ <interval> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
hello-interval	Hello interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ospfv3 instance

```
{ ospfv3 instance <instance-id> } | { no ospfv3 instance [ <instance-id> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
instance	Instance identifier
<i>instance-id</i>	Instance identifier value

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ospfv3 mtu-ignore

[no] ospfv3 mtu-ignore

## Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
mtu-ignore	Disable OSPF MTU mismatch detection

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config



# ospfv3 network

```
{ ospfv3 network { broadcast | point-to-point } } | { no ospfv3 network [ { broadcast | point-to-point } ] }
```

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
network	Network type
broadcast	Specify OSPF broadcast multi-access network
point-to-point	Specify OSPF point-to-point network

## Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

# ospfv3 network point-to-point

{ ospfv3 network point-to-point } | { no ospfv3 network [ point-to-point ] }

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
network	Network type
point-to-point	Specify OSPF point-to-point network

## Command Mode

- /exec/configure/if-loopback

# ospfv3 passive-interface

[ default | no ] ospfv3 passive-interface

## Syntax Description

default	(Optional) Undo a command
no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
passive-interface	Suppress routing updates on the interface

## Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

# ospfv3 priority

{ ospfv3 priority <prio> } | { no ospfv3 priority [ <prio> ] }

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
priority	Router priority
<i>prio</i>	Router priority

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ospfv3 retransmit-interval

{ ospfv3 retransmit-interval <interval> } | { no ospfv3 retransmit-interval [ <interval> ] }

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# ospfv3 shutdown

[no] ospfv3 shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
shutdown	Shutdown ospf on this interface

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

# ospfv3 transmit-delay

```
{ ospfv3 transmit-delay <delay> } | { no ospfv3 transmit-delay [ <delay> ] }
```

## Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

## Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

# overbudgetshut

overbudgetshut [ module <module> ]

## Syntax Description

overbudgetshut	Shut down the specified LCs due to power over budget
module	(Optional) Module Force Shut down
<i>module</i>	(Optional) please enter the module number

## Command Mode

- /exec



# overbudgetsyslog

overbudgetsyslog

## Syntax Description

overbudgetsyslog	Print Syslog to indicate power over budget
------------------	--------------------------------------------

## Command Mode

- /exec

# overlay-encapsulation

[no] overlay-encapsulation <encap-type> [ tunnel-control-frames ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
overlay-encapsulation	NVE Overlay Encapsulation
<i>encap-type</i>	Configure encapsulation type
tunnel-control-frames	(Optional) tunnel protocol

## Command Mode

- /exec/configure/if-nve

## overlay-encapsulation (if-nve)

[no] overlay-encapsulation <encap-type> [ tunnel-control-frames ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
overlay-encapsulation	NVE Overlay Encapsulation
<i>encap-type</i>	Configure encapsulation type
tunnel-control-frames	(Optional) tunnel protocol

### Command Mode

- /exec/configure/if-nve

# overload rip

overload rip

## Syntax Description

overload	
rip	Forced RIP overload

## Command Mode

- /exec

# owner

{ { no | default } owner | owner <text> }

## Syntax Description

no	
default	Set a command to its defaults
owner	Owner of Entry
<i>text</i>	Owner String

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp  
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho  
/exec/configure/ip-sla/pong





## P Commands

---

- [param-list](#), on page 2215
- [parity](#), on page 2216
- [parity](#), on page 2217
- [passive-interface default](#), on page 2218
- [passive-interface default \(router-ospf3\)](#), on page 2219
- [passive-interface default \(router-eigrp-vrf-common\)](#), on page 2220
- [passive-interface default \(router-isis-vrf-common\)](#), on page 2221
- [password](#), on page 2222
- [password \(passwd\)](#), on page 2223
- [password \(ldp\)](#), on page 2224
- [password prompt username](#), on page 2225
- [password secure-mode](#), on page 2226
- [password strength-check](#), on page 2227
- [path-option](#), on page 2228
- [path-selection metric](#), on page 2229
- [path-selection metric \(if-te\)](#), on page 2230
- [path-selection overload allow](#), on page 2231
- [pause](#), on page 2232
- [pause \(pause-threshold\)](#), on page 2233
- [pause \(resume-threshold\)](#), on page 2234
- [peer-gateway](#), on page 2235
- [peer-ip](#), on page 2236
- [peer-keepalive destination](#), on page 2237
- [peer-switch](#), on page 2239
- [peer ip](#), on page 2240
- [peer vdc](#), on page 2241
- [perf](#), on page 2242
- [periodic-inventory notification](#), on page 2243
- [periodic-inventory notification](#), on page 2244
- [permit interface](#), on page 2245
- [permit vlan](#), on page 2246
- [permit vrf](#), on page 2247
- [permit vsan](#), on page 2248

- [phone-contact](#), on page 2249
- [pktmgr cache disable](#), on page 2250
- [platform](#), on page 2251
- [platform access-list fp\\_dnl](#), on page 2252
- [platform forwarding layer-2 fl exclude supervisor](#), on page 2253
- [platform access-list update](#), on page 2254
- [platform qos](#), on page 2255
- [platform qos](#), on page 2256
- [platform qos eoq](#), on page 2257
- [platform qos](#), on page 2258
- [platform rate-limiter](#), on page 2259
- [platform ip verify](#), on page 2261
- [platform ipv6 verify](#), on page 2263
- [platform forwarding interface statistics mode](#), on page 2264
- [platform fabricpath mac-learning module](#), on page 2265
- [police](#), on page 2266
- [police](#), on page 2268
- [policy-map](#), on page 2270
- [policy-map type control-plane](#), on page 2271
- [policy-map type network-qos](#), on page 2272
- [policy-map type psp](#), on page 2273
- [policy-map type queuing](#), on page 2274
- [policy](#), on page 2275
- [pop](#), on page 2276
- [port-channel limit](#), on page 2277
- [port-channel load-balance](#), on page 2278
- [port-channel load-balance1 ethernet](#), on page 2279
- [port-channel load-balance2 resilient](#), on page 2280
- [port-channel load-balance ethernet](#), on page 2281
- [port-channel load-balance hash-modulo-f2](#), on page 2282
- [port-channel load-balance hash enable](#), on page 2283
- [port-channel load-balance internal](#), on page 2284
- [port-profile](#), on page 2285
- [port-profile default max-ports](#), on page 2286
- [port-profile default max-ports](#), on page 2287
- [port-profile dump](#), on page 2288
- [port-profile no-redirection](#), on page 2289
- [port-security stop learning](#), on page 2290
- [port](#), on page 2291
- [port control](#), on page 2292
- [power efficient-ethernet auto](#), on page 2293
- [power efficient-ethernet sleep threshold aggressive](#), on page 2294
- [power redundancy-mode combined](#), on page 2295
- [power redundancy-mode combined force](#), on page 2296
- [power redundancy-mode insrc-redundant](#), on page 2297
- [power redundancy-mode ps-redundant](#), on page 2298



- pps, on page 2299
- pps, on page 2300
- precision, on page 2301
- preempt, on page 2302
- preempt, on page 2303
- preempt, on page 2304
- preempt delay, on page 2305
- preempt delay minimum, on page 2306
- priority-flow-control mode, on page 2307
- priority, on page 2308
- priority2, on page 2309
- priority, on page 2310
- priority, on page 2311
- priority, on page 2312
- priority, on page 2313
- priority, on page 2314
- priority, on page 2315
- priority, on page 2316
- private-vlan, on page 2317
- private-vlan association, on page 2318
- private-vlan mapping, on page 2319
- private-vlan release resource, on page 2320
- private-vlan synchronize, on page 2321
- probe, on page 2322
- probe, on page 2323
- probe, on page 2324
- probe, on page 2325
- probe, on page 2326
- probe, on page 2327
- probe, on page 2328
- probe, on page 2329
- probe, on page 2330
- promiscuous-mode, on page 2331
- propagate-sgt, on page 2332
- protection, on page 2333
- protocol shutdown, on page 2334
- protocol shutdown, on page 2335
- ptp, on page 2336
- ptp announce interval, on page 2337
- ptp announce timeout, on page 2338
- ptp delay-request minimum interval, on page 2339
- ptp domain, on page 2340
- ptp priority1, on page 2341
- ptp priority2, on page 2342
- ptp source, on page 2343
- ptp sync interval, on page 2344

- [ptp vlan](#), on page 2345
- [publish-event sub-system](#), on page 2346
- [purge ip route](#), on page 2347
- [purge ipv6 route](#), on page 2348
- [push](#), on page 2349
- [pwd](#), on page 2350
- [python](#), on page 2351
- [python execute virtual-service](#), on page 2352
- [python instance](#), on page 2353

# param-list

[no] param-list <plistname>

## Syntax Description

no	(Optional) Negate a command or set its defaults
param-list	Configure a parameter list
<i>plistname</i>	Enter the name of the parameter list

## Command Mode

- /exec/configure

# parity

[no] parity { even | none | odd }

## Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
even	Even parity
none	No parity
odd	Odd parity

## Command Mode

- /exec/configure/com1

# parity

[no] parity { even | none | odd }

## Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
even	Even parity
none	No parity
odd	Odd parity

## Command Mode

- /exec/configure/console

# passive-interface default

[no] passive-interface default

## Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## passive-interface default (router-ospf3)

[no] passive-interface default

### Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

### Command Mode

- /exec/configure/router-ospf3
- /exec/configure/router-ospf3/vrf

## passive-interface default (router-igrp-vrf-common)

[no] passive-interface default

### Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

### Command Mode

- /exec/configure/router-igrp/router-igrp-vrf-common
- /exec/configure/router-igrp/router-igrp-af-common



## passive-interface default (router-isis-vrf-common)

[no] passive-interface default <level>

### Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress IS-IS PDU
default	Undo a command
<i>level</i>	IS-IS level

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# password

password <password-string> | { no | default } password [ <password-string> ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
password	Configure a password for neighbor
<i>password-string</i>	Neighbor password

## Command Mode

- /exec/configure/router-bgp/router-bgp-template-neighbor  
/exec/configure/router-bgp/router-bgp-neighbor-stmp /exec/configure/router-bgp/router-bgp-neighbor  
/exec/configure/router-bgp/router-bgp-vrf-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor  
/exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

# password (passwd)

{ [ no ] password <passwd> }

## Syntax Description

password	password
<i>passwd</i>	password

## Command Mode

- /exec/configure/dot1x-cred

## password (ldp)

```
password [ vrf { <vrf-name> | <vrf-known-name> } ] { required [ req-for <req-pfx-list> ] | { fallback | option
<seq-num> opt-for <opt-pfx-list> } { key-chain <name> } } | no password [ vrf { <vrf-name> |
<vrf-known-name> } ] { required | fallback | option <seq-num> }
```

### Syntax Description

no	Negate a command or set its defaults
password	Configure LDP password
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
required	Password is required for the peer
req-for	(Optional) Prefix list specifying control on LDP peers
<i>req-pfx-list</i>	(Optional) Prefix list for LDP peers
fallback	Specifies a fallback password will follow
option	LDP password option
<i>seq-num</i>	Sequence number of the LDP password option
opt-for	Prefix list specifying control on LDP peers
<i>opt-pfx-list</i>	Prefix list for LDP peers
key-chain	Specifies a key-chain name will follow
<i>name</i>	Key-chain name

### Command Mode

- /exec/configure/ldp

# password prompt username

[no] password prompt username

## Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
prompt	Enable prompt for password
username	Enable prompt for password on username command

## Command Mode

- /exec/configure

# password secure-mode

[no] password secure-mode

## Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
secure-mode	Enable secure mode for changing password

## Command Mode

- /exec/configure

# password strength-check

[no] password strength-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
strength-check	Strength check of password

## Command Mode

- /exec/configure

# path-option

```
[no] path-option [ protect ] <pref> | path-option <pref> dynamic [ attributes <attr-name> | { bandwidth <kbps>
| lockdown } + ] | path-option [ protect ] <pref> explicit { identifier <id-num> | name <name> } [ { attributes
<attr-name> [ verbatim ] | { bandwidth <kbps> | lockdown | verbatim } + } ]
```

## Syntax Description

no	Negate a command or set its defaults
path-option	a primary or fallback path setup option
protect	(Optional) a path protection setup option
<i>pref</i>	preference for this path option
dynamic	setup based on dynamically calculated path
explicit	setup based on preconfigured path
identifier	Specify an IP explicit path by number
<i>id-num</i>	Number of ip explicit path
name	Specify an IP explicit path by name
<i>name</i>	Name of ip explicit path
attributes	(Optional) Specify an LSP attribute list
<i>attr-name</i>	(Optional) Name of LSP attribute list
verbatim	(Optional) send out path as is, with no checking
bandwidth	(Optional) override the bandwidth configured on the tunnel
<i>kbps</i>	(Optional) bandwidth requirement in kbps
lockdown	(Optional) not a candidate for reoptimization
<i>kbps</i>	(Optional) bandwidth requirement in kbps
lockdown	(Optional) not a candidate for reoptimization

## Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member



# path-selection metric

path-selection metric { igp | te } | no path-selection metric

## Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
metric	Metric Type Configuration
igp	Use IGP metric
te	Use TE metric (*Default)

## Command Mode

- /exec/configure/te

## path-selection metric (if-te)

[no] path-selection metric | path-selection metric { igp | te }

### Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
metric	Metric type for path calculation
igp	Use IGP Metric
te	Use TE Metric

### Command Mode

- /exec/configure/if-te
- /exec/configure/tunnel-te/cbts-member

# path-selection overload allow

[no] path-selection overload allow | path-selection overload allow { head [ middle ] [ tail ] | middle [ tail ] | tail }

## Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
overload	Overload Node Configuration
allow	Allow overloaded nodes in CSPFs
head	Allow overloaded head node in TE CSPF
middle	(Optional) Allow overloaded middle node in TE CSPF
tail	(Optional) Allow overloaded tail node in TE CSPF

## Command Mode

- /exec/configure/te

# pause

[no] pause { priority-group <priority-group-number> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE charecteristics (CBFC)
priority-group	ingress priority-group to which the traffic is mapped and pause limits are applied
<i>priority-group-number</i>	Priority group value

## Command Mode

- /exec/configure/policy-map/type/queuing/class

## pause (pause-threshold)

```
[no] pause { no-drop | { delayed-drop <timeout> } | { [ buffer-size <size-in-bytes> pause-threshold <xoff-bytes>
resume-threshold <xon-bytes> ] pfc-cos <pfc-cos-list> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
no-drop	NO-DROP
delayed-drop	Enable delayed-drop for the CoS
<i>timeout</i>	Timer value for delayed drop
buffer-size	(Optional) Ingress buffer size in bytes
pause-threshold	(Optional) Buffer limit for pausing in bytes
resume-threshold	(Optional) Buffer limit at which to resume in bytes
pfc-cos	CoS values to assert PFC on
<i>pfc-cos-list</i>	List of class-of-service values

### Command Mode

- /exec/configure/policy-map/type/uf/class

## pause (resume-threshold)

[no] pause { buffer-size <size-in-bytes> pause-threshold <xoff-bytes> resume-threshold <xon-bytes> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
buffer-size	Ingress buffer size in bytes
pause-threshold	Buffer limit for pausing in bytes
resume-threshold	Buffer limit at which to resume in bytes

### Command Mode

- /exec/configure/policy-map/type/queuing/class

# peer-gateway

peer-gateway [ exclude-vlan <vlan-list> ] | no peer-gateway

## Syntax Description

no	Negate a command or set its defaults
peer-gateway	Enable L3 forwarding for packets destined to peer's gateway mac-address
exclude-vlan	(Optional) Specify VLANs to be excluded from peer-gateway functionality
<i>vlan-list</i>	(Optional) Specify the list of vlans

## Command Mode

- /exec/configure/vpc-domain

# peer-ip

[no] peer-ip <addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
peer-ip	Static IP Address Configuration
<i>addr</i>	Remote Peer IP Address

## Command Mode

- /exec/configure/if-nve/vni/ingr-rep



## peer-keepalive destination

```
peer-keepalive destination <dst-ip> [ [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> |
<vrf-known-name> } | { interval <interval-ms> timeout <time-out> } | tos-byte <tos-byte-value> | hold-timeout
<hold-time-out> ] + | [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> | <vrf-known-name>
} | { interval <interval-ms> timeout <time-out> } | tos { <tos-value> | min-delay | max-throughput |
max-reliability | min-monetary-cost | normal } | hold-timeout <hold-time-out> ] + | [ source <src-ip> | udp-port
<udp-port-num> | vrf { <vrf-name> | <vrf-known-name> } | { interval <interval-ms> timeout <time-out> } |
precedence { <prec-vlaue> | network | internet | critical | flash-override | flash | immediate | priority | routine
} | hold-timeout <hold-time-out> ] + ]
```

### Syntax Description

peer-keepalive	Keepalive/Hello with peer switch
destination	specify destination ip address of peer switch
<i>dst-ip</i>	IPv4 address (A.B.C.D) of destination
source	(Optional) source interface for hello
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source
udp-port	(Optional) enter UDP port number used for hello
<i>udp-port-num</i>	(Optional) udp port number for hellos
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-known-name</i>	(Optional) Known VRF name
interval	(Optional) enter interval in milleseconds
<i>interval-ms</i>	(Optional) Enter interval in milleseconds
timeout	(Optional) enter timeout in seconds
<i>time-out</i>	(Optional) enter timeout in seconds
precedence	(Optional) Precedence
<i>prec-vlaue</i>	(Optional) Precedence value
network	(Optional) network (7)
internet	(Optional) internet (6)
critical	(Optional) critical (5)
flash-override	(Optional) flash-override (4)
flash	(Optional) flash (3)

immediate	(Optional) immediate (2)
priority	(Optional) priority (1)
routine	(Optional) routine (0)
tos	(Optional) Type of Service
<i>tos-value</i>	(Optional) Enter 4-bit TOS value
min-delay	(Optional) min-delay (8)
max-throughput	(Optional) max-throughput (4)
max-reliability	(Optional) max-reliability (2)
min-monetary-cost	(Optional) min-monetary-cost (1)
normal	(Optional) normal (0)
tos-byte	(Optional) Type of Service Byte
<i>tos-byte-value</i>	(Optional) Enter 8-bit TOS value
hold-timeout	(Optional) hold timeout to ignore stale peer alive messages
<i>hold-time-out</i>	(Optional) Enter hold-timeout in seconds

**Command Mode**

- /exec/configure/vpc-domain

# peer-switch

[no] peer-switch

## Syntax Description

no	(Optional) Negate a command or set its defaults
peer-switch	Enable peer switch on vPC pair switches

## Command Mode

- /exec/configure/vpc-domain

# peer ip

[no] peer ip <ip-addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
peer	ITD peer
ip	ITD peer ip
<i>ip-addr</i>	NICE node IP prefix in format i.i.i.i

## Command Mode

- /exec/configure/itd-inout

# peer vdc

[no] peer vdc <vdc-id> service <service-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
peer	Peer cli for sandwich mode failure notification
vdc	Peer VDC involved in sandwich mode
service	Peer service involved in sandwich mode
<i>vdc-id</i>	VDC name of peer VDC
<i>service-name</i>	Peer service name string

## Command Mode

- /exec/configure/itd

# perf

```
perf [ { record { context-switch | profile } { system | process <i0> } [ <s1> ] } | { stop { all | <s0> } } | { list
} | { create-archive <s2> } | { remove { all | <s3> } } ]
```

## Syntax Description

perf	Run perf tool to collect or process event data
record	(Optional) Record events to a file for later analysis
stop	(Optional) Stop a perf record.
list	(Optional) List recorded datasets
create-archive	(Optional) Create an archive of dataset for download
remove	(Optional) Remove recorded dataset(s)
all	(Optional) Act on all recorded datasets
context-switch	(Optional) Record context-switch events
profile	(Optional) Record periodic runtime samples
system	(Optional) Record events for all processes on all CPUS
process	(Optional) Record events for a specific process with the given pid
<i>i0</i>	(Optional) pid of process to record events
<i>s0</i>	(Optional) id of perf record session to stop
<i>s1</i>	(Optional) id to use for perf record session
<i>s2</i>	(Optional) id of perf dataset to create an archive
<i>s3</i>	(Optional) id of perf dataset to remove

## Command Mode

- /exec

# periodic-inventory notification

[no] periodic-inventory notification

## Syntax Description

no	(Optional) Negate a command or set its defaults
periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch

## Command Mode

- /exec/configure/callhome

## periodic-inventory notification

periodic-inventory notification { interval <i0> | timeofday <s0> }

### Syntax Description

periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch
interval	Configure the time period for periodic inventory
<i>i0</i>	Time period in days (default is 7 days)
timeofday	Configure the timeofday for periodic inventory in HH:MM format
<i>s0</i>	Time period in HH:MM format

### Command Mode

- /exec/configure/callhome



# permit interface

[no] permit interface <if0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to interfaces (applicable if interface policy is 'deny')
interface	Enter the range of interfaces accessible the role
<i>if0</i>	Enter the interface range

## Command Mode

- /exec/configure/role/interface

# permit vlan

[no] permit vlan <vlan-mrange>

## Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vlans (applicable if vlan policy is 'deny')
vlan	Enter the range of vlans accessible the role
<i>vlan-mrange</i>	Enter the vlan range

## Command Mode

- /exec/configure/role/vlan

# permit vrf

[no] permit vrf <vrf-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vrf (applicable if vrf policy is 'deny')
vrf	Enter the range of vrf accessible the role
<i>vrf-name</i>	Enter the vrf name

## Command Mode

- /exec/configure/role/vrf

# permit vsan

[no] permit vsan <vsan-mrange>

## Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vsans (applicable if vsan policy is 'deny')
vsan	Enter the range of vsans accessible the role
<i>vsan-mrange</i>	Enter the vsan range

## Command Mode

- /exec/configure/role/vsan

# phone-contact

{ phone-contact <s0> | no phone-contact }

## Syntax Description

no	Negate a command or set its defaults
phone-contact	Contact person's phone number
s0	Phone number in international format(such as +1-800-123-4567)

## Command Mode

- /exec/configure/callhome

# pktmgr cache disable

{ [ no ] pktmgr cache disable }

## Syntax Description

no	(Optional) Negate a command or set its defaults
pktmgr	packet manager
cache	Disable cache
disable	Disable cache

## Command Mode

- /exec/configure

# platform

[no] { platform | hardware } access-list capture

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
capture	Configure ACL capture

## Command Mode

- /exec/configure

# platform access-list fp\_dnl

[no] { platform | hardware } access-list fp\_dnl

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access control list
fp_dnl	Fabric path - do not learn mac from broadcast

## Command Mode

- /exec/configure



# platform forwarding layer-2 f1 exclude supervisor

[no] { platform | hardware } forwarding layer-2 f1 exclude supervisor

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
forwarding	Forwarding information
layer-2	L2 only mode
f1	N7K-F132XP-15 module
exclude	Exclude supervisor from getting copies of ARP and multicast packets
supervisor	Supervisor module

## Command Mode

- /exec/configure

# platform access-list update

[no] { platform | hardware } access-list update { { atomic } | { default-result permit } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
update	Configure atomic/non-atomic update and default-result
atomic	Enable atomic update of access-list in hardware
default-result	Default access-list result during non-atomic hardware update
permit	Permit all packets during non-atomic update

## Command Mode

- /exec/configure

# platform qos

[no] { platform | hardware } qos { ns-buffer-profile <buff-prof-opts> [ module <module> ] }

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ns-buffer-profile	NorthStar buffer absorption profiles
<i>buff-prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

## Command Mode

- /exec/configure

# platform qos

```
[no] { platform | hardware } qos { min-buffer qos-group <buff-prof-opts> [ module <module> ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
min-buffer	minimum/reserved buffer selection
qos-group	Qos Group
<i>buff-prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

## Command Mode

- /exec/configure

# platform qos eq

```
[no] { platform | hardware } qos eq { stats-class qos-group { all | <qos-grp-val> } [ module <module> ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure QoS related configuration
eq	Extended Output Queue(EOQ) related configuration
stats-class	Select class for which to report the statistics
qos-group	Qos Group
<i>qos-grp-val</i>	QoS group value
all	all Qos Groups
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

## Command Mode

- /exec/configure

# platform qos

[no] { platform | hardware } qos { ing-pg-share [ module <module> ] }

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ing-pg-share	Select Ingress PG Shared Buffer Usage
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

## Command Mode

- /exec/configure

# platform rate-limiter

```
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <f1-opts> } { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no { platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <f1-opts> } [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

## Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded to supervisor
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
<i>pps</i>	value in packets per sec
fl	Control packets from F1 modules to supervisor
<i>f1-opts</i>	
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

## Command Mode

- /exec/configure



# platform ip verify

[no] { platform | hardware } ip verify { address { source { broadcast | multicast } | class-e | destination { zero } | identical | reserved } | checksum | protocol | fragment | length { minimum | consistent | maximum { max-frag | udp | max-tcp } } | tcp { tiny-frag } | version | syslog }

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ip	IP
verify	Enable IPv4 and some IPv6 packet validation checks in hardware
address	IPv4 Source and destination address validation
source	Check source address
broadcast	Source address is 255.255.255.255
multicast	Source address is 224.x.x.x
destination	Check destination address
zero	Destination address is 0.0.0.0
class-e	Class E IDS check
identical	Same IP SA and DA
reserved	Source address is 127.x.x.x
checksum	Verify IPv4 and IPv6 packet checksum
protocol	Verify IP protocol
fragment	Check IPv4 and IPv6 fragment with non-zero offset and DF bit active
length	Validate IPv4 packet header and payload length
minimum	Minimum IPv4 header length
consistent	Actual frame size is equal to or more than IPv4 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv4 payload length

max-tcp	Maximum TCP length has to be less than IPv4 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 4 for an ethertype of IPv4 (0x0800)
syslog	Syslog Messages logging configuration for IDS check drops

**Command Mode**

- /exec/configure

# platform ipv6 verify

[no] { platform | hardware } ipv6 verify { length { consistent | maximum { max-frag | udp | max-tcp } } | tcp { tiny-frag } | version }

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ipv6	IPv6
verify	Enable IPv6 packet validation checks in hardware
length	Validate IPv6 packet header and payload length
consistent	Actual frame size is equal to or more than IPv6 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv6 payload length
max-tcp	Maximum TCP length has to be less than IPv6 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 6 for an ethertype of IPv6 (0x86DD)

## Command Mode

- /exec/configure

## platform forwarding interface statistics mode

```
[no] { platform | hardware } forwarding interface statistics mode { mpls | default } [ module <module-num> ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
forwarding	Hardware forwarding
interface	Interface
statistics	Statistics
mode	Statistics mode
mpls	Mpls mode
default	Default mode
module	(Optional) Specify a module number
<i>module-num</i>	(Optional) Specify a module number

### Command Mode

- /exec/configure

# platform fabricpath mac-learning module

[no] { platform | hardware } fabricpath mac-learning module <module> [ port-group { 1-4 | 5-8 | 9-12 | 13-16 | 17-20 | 21-24 | 25-28 | 29-32 | 33-36 | 37-40 | 41-44 | 45-48 } + ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
fabricpath	Fabric Path
mac-learning	MAC Learning
module	Specify a module number
<i>module</i>	Specify a module number
port-group	(Optional) Port Group

## Command Mode

- /exec/configure

# police

```
police { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ] <bc-val>
[ <opt_kbytes_mbytes_gbytes_bc> ] ] } } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] | percent1
<pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } } ] ] } | police { pps {
<pps-val> } }
```

## Syntax Description

police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map
pps	Specify PPS rate limit

#### Command Mode

- /exec/configure/pmap/class

# police

```
[no] police [ { { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { { [ bc ]
<bc-val> [ <opt_kbytes_mbytes_gbytes_bc> ] } } } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] |
percent1 <pir-perc> } } [ { [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] } ] } } { { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] } } ] }
```

## Syntax Description

no	Negate a command or set its defaults
police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional) Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)



exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map

#### Command Mode

- /exec/configure/pmap/class

# policy-map

[no] policy-map [ type qos ] [ match-first ] <pmap-name-qos>

## Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	(Optional) Specify the type of this policy-map
qos	(Optional) Qos policy
match-first	(Optional) Take the action for the first class that matches
<i>pmap-name-qos</i>	Policy-map name (alphanumeric)

## Command Mode

- /exec/configure

# policy-map type control-plane

[no] policy-map type control-plane <pmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
control-plane	Control-Plane
<i>pmap-name</i>	Policy-map name (alphanumeric)

## Command Mode

- /exec/configure

# policy-map type network-qos

[no] policy-map type network-qos <pmap-name-nq>

## Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-name-nq</i>	Policy-map name

## Command Mode

- /exec/configure

## policy-map type psp

```
[no] policy-map type psp { <pmap-name-plc> | { handle <ppf_id> } } [ table <table_type> ] [ client <clienttype> <clientID> ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
psp	PSP policy
<i>pmap-name-plc</i>	Policy-map name (alphanumeric)
handle	Handle
<i>ppf_id</i>	PPF ID
table	(Optional) table
<i>table_type</i>	(Optional) Table Type
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID

### Command Mode

- /exec/configure

# policy-map type queuing

[no] policy-map type queuing [ match-first ] <pmap-name-que>

## Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
queuing	Queuing policy
match-first	(Optional) Take the action for the first class that matches
<i>pmap-name-que</i>	Policy-map name (alphanumeric)

## Command Mode

- /exec/configure

# policy

policy { { dynamic identity <device-id> } | { static sgt <sgt> [ trusted ] } } | no policy static | no policy dynamic

## Syntax Description

policy	Enable and define policy to be applied
dynamic	apply to authorization server for policy
identity	specify identity of peer for authorization request
<i>device-id</i>	peer's device-id
static	configure static policy
sgt	SGT tag for pkts from this device
<i>sgt</i>	sgt value
trusted	(Optional) specify trust state of the link

## Command Mode

- /exec/configure/cts-manual

# pop

pop [ <name> ]

## Syntax Description

pop	pop mode from stack or restore from name
<i>name</i>	(Optional) name

## Command Mode

- /global



# port-channel limit

port-channel limit | no port-channel limit

## Syntax Description

no	Negate a command or set its defaults
port-channel	Configure the maximum number of supported vPCs
limit	limit to 244 vPCs

## Command Mode

- /exec/configure/vpc-domain

## port-channel load-balance

```
port-channel load-balance <bndl_hash> <bndl_sel> [ rotate <rotate> ] [ concatenation ] [ module <module>
] [ symmetric ] | no port-channel load-balance [ <bndl_hash> <bndl_sel> [ rotate <rotate> ] [ concatenation
] [ module <module> ] [ symmetric ] ]
```

### Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
<i>bndl_hash</i>	bundle hash
<i>bndl_sel</i>	bundle select
rotate	(Optional) offset the hash-input
<i>rotate</i>	(Optional) offset the hash-input
concatenation	(Optional) enable/disable concatenation
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
symmetric	(Optional) symmetric load balancing

### Command Mode

- /exec/configure

# port-channel load-balance1 ethernet

port-channel load-balance1 ethernet <algorithm> [ symmetric ] | no port-channel load-balance1 ethernet [ <algorithm> [ symmetric ] ]

## Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance1	Configure port-channel load balance
ethernet	Ethernet port-channel
<i>algorithm</i>	Configure port-channel load balance
symmetric	(Optional) symmetric load balancing

## Command Mode

- /exec/configure

# port-channel load-balance2 resilient

port-channel load-balance2 resilient | no port-channel load-balance2 resilient

## Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance2	Configure port-channel load balance
resilient	Configure port-channel load balance resilient mode

## Command Mode

- /exec/configure

# port-channel load-balance ethernet

port-channel load-balance ethernet <algorithm> [ module <module> ] | no port-channel load-balance ethernet [ <algorithm> [ module <module> ] ]

## Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
ethernet	Ethernet port-channel
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>algorithm</i>	Configure port-channel load balance

## Command Mode

- /exec/configure

## port-channel load-balance hash-modulo-f2

[no] port-channel load-balance hash-modulo-f2

### Syntax Description

no	(Optional) Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash-modulo-f2	Enable/disable modulo hash for N7K-F248XP cards

### Command Mode

- /exec/configure

# port-channel load-balance hash enable

[no] port-channel load-balance hash enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash	hash enhancement
enable	enable

## Command Mode

- /exec/configure

# port-channel load-balance internal

port-channel load-balance internal <algorithm> | no port-channel load-balance internal <algorithm>

## Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
internal	Configure port-channel load balance internal commands
<i>algorithm</i>	Configure port-channel load balance internal mode

## Command Mode

- /exec/configure



# port-profile

[no] port-profile [ type <typeval> ] { <profilename> | <s0> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Configure a port-profile
<i>profilename</i>	Enter the name of the profile
<i>s0</i>	Enter the name of the profile
type	(Optional) configure type of the profile
<i>typeval</i>	(Optional)

## Command Mode

- /exec/configure

## port-profile default max-ports

port-profile default max-ports <i0>

### Syntax Description

port-profile	Configure a port-profile
default	Configure default settings
max-ports	Configure default max-ports
<i>i0</i>	Enter the default max-number of ports for vethernet port-profiles

### Command Mode

- /exec/configure

# port-profile default max-ports

[no] port-profile default max-ports

## Syntax Description

no	Negate a command or set its defaults
port-profile	Configure a port-profile
default	Configure default settings
max-ports	Configure default max-ports

## Command Mode

- /exec/configure

# port-profile dump

[no] port-profile dump

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Dump port-profile
dump	Dump all additional information from database

## Command Mode

- /exec

# port-profile no-redirectation

[no] port-profile no-redirectation

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Show port-profile information
no-redirectation	Disable port-profile redirectation

## Command Mode

- /exec

# port-security stop learning

[no] port-security stop learning

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-security	Port security related command
stop	stop
learning	learning

## Command Mode

- /exec

# port

{ port <tporinum> } | { no port [ <tporinum-ignore> ] }

## Syntax Description

no	Negate a command or set its defaults
port	Port number
<i>tporinum</i>	Port number, default: 15002
<i>tporinum-ignore</i>	(Optional) Port number, default: 15002

## Command Mode

- /exe/configure/onep/tls

# port control

[no] port control <port-control-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
port	ITD port
control	control
<i>port-control-name</i>	Port control name

## Command Mode

- /exec/configure/itd-inout



# power efficient-ethernet auto

[no] power efficient-ethernet auto

## Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
auto	Auto negotiate EEE

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# power efficient-ethernet sleep threshold aggressive

[no] power efficient-ethernet sleep threshold aggressive

## Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
sleep	EEE LPI sleep configuration
threshold	EEE LPI sleep threshold
aggressive	Enable/ Disable EEE LPI aggressive sleep mode

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# power redundancy-mode combined

[no] power redundancy-mode combined

## Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined

## Command Mode

- /exec/configure

# power redundancy-mode combined force

[no] power redundancy-mode combined force

## Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined
force	Force combined mode without prompting

## Command Mode

- /exec/configure

# power redundancy-mode insrc-redundant

[no] power redundancy-mode insrc-redundant

## Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
insrc-redundant	Configure power supply redundancy mode as grid/AC input source redundant

## Command Mode

- /exec/configure

# power redundancy-mode ps-redundant

[no] power redundancy-mode ps-redundant

## Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
ps-redundant	Configure power supply redundancy mode as PS redundant

## Command Mode

- /exec/configure

# pps

pps <pps> <burst> | no pps [ <pps> ] [ <burst> ]

## Syntax Description

no	Negate a command or set its defaults
pps	OSPF packets per second
<i>pps</i>	Packets per second value
<i>burst</i>	Burst value

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# pps

pps <pps> <burst> | no pps [ <pps> ] [ <burst> ]

## Syntax Description

no	Negate a command or set its defaults
pps	OSPFv3 packets per second
<i>pps</i>	Packets per second value
<i>burst</i>	Burst value

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf



# precision

{ { no | default } precision | precision { milliseconds | microseconds } }

## Syntax Description

no	
<i>precision</i>	milliseconds
default	Set a command to its defaults
precision	Set precision of measurement
microseconds	Precision microseconds
milliseconds	Precision milliseconds

## Command Mode

- /exec/configure/ip-sla/jitter

# preempt

[no] preempt | preempt

## Syntax Description

no	Negate a command or set its defaults
preempt	Enable preemption of lower priority Master

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# preempt

[no] preempt [ delay { minimum <min-delay> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
preempt	Overthrow lower priority designated routers
delay	(Optional) Wait before preempting
minimum	(Optional) Delay atleast this long
<i>min-delay</i>	(Optional) Number of seconds for minimum delay

## Command Mode

- /exec/configure/if-eth-any/glbp

# preempt

[no] preempt

## Syntax Description

no	(Optional) Negate a command or set its defaults
preempt	Enable preemption of lower priority master

## Command Mode

- /exec/configure/if-eth-any/vrrp

# preempt delay

[no] preempt delay | preempt delay minimum <secs>

## Syntax Description

no	Negate a command or set its defaults
preempt	Enable preemption of lower priority Master
delay	Wait before preempting
minimum	Delay at least this long
<i>secs</i>	Seconds to delay

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

## preempt delay minimum

```
preempt delay minimum <min-delay> reload <rel-delay> sync <sync-delay> | preempt delay reload <rel-delay>
minimum <min-delay> sync <sync-delay> | preempt delay sync <sync-delay> minimum <min-delay> reload
<rel-delay> | preempt delay reload <rel-delay> sync <sync-delay> minimum <min-delay> | preempt delay
sync <sync-delay> reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> sync
<sync-delay> reload <rel-delay> | preempt delay reload <rel-delay> sync <sync-delay> | preempt delay sync
<sync-delay> reload <rel-delay> | preempt delay minimum <min-delay> sync <sync-delay> | preempt delay
sync <sync-delay> minimum <min-delay> | preempt delay minimum <min-delay> reload <rel-delay> | preempt
delay reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> | preempt delay
reload <rel-delay> | preempt delay sync <sync-delay> | preempt | no preempt | no preempt delay [ { minimum
[ <min-delay> ] [ [ reload [ <rel-delay> ] ] [ sync [ <sync-delay> ] ] ] [ sync [ <sync-delay> ] ] [ reload [
<rel-delay> ] ] ] | reload [ <rel-delay> ] [ [ minimum [ <min-delay> ] ] [ sync [ <sync-delay> ] ] [ sync [
<sync-delay> ] ] [ minimum [ <min-delay> ] ] ] | sync [ <sync-delay> ] [ [ reload [ <rel-delay> ] ] [ minimum
[ <min-delay> ] ] ] [ minimum [ <min-delay> ] ] [ reload [ <rel-delay> ] ] ] } ]
```

### Syntax Description

no	Negate a command or set its defaults
preempt	Overthrow lower priority Active routers
delay	Wait before preempting
minimum	Delay at least this long
<i>min-delay</i>	Number of seconds for minimum delay
reload	Delay after reload
<i>rel-delay</i>	Number of seconds for reload delay
sync	Wait for IP redundancy clients
<i>sync-delay</i>	Number of seconds for sync delay
<i>minimum</i>	reload

### Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# priority-flow-control mode

[no] priority-flow-control mode { auto | on | off } [ force ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
priority-flow-control	Enable/Disable PFC
mode	PFC Mode
auto	Set Auto Mode
on	Force PFC to On
off	Force PFC to Off
force	(Optional) Force apply PFC config

## Command Mode

- /exec/configure/if-switching /exec/configure/if-routing /exec/configure/if-port-channel /exec/configure/if-port-channel-sub

# priority

[no] priority | priority <setup\_prio> [ <hold\_prio> ]

## Syntax Description

no	Negate a command or set its defaults
priority	Specify LSP priority
<i>setup_prio</i>	setup priority
<i>hold_prio</i>	(Optional) hold priority

## Command Mode

- /exec/configure/te/lsp-attr



# priority2

[no] priority2 [ level2 <value> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
priority2	Configure traffic class priority
level2	(Optional) Specify level of priority
<i>value</i>	(Optional) Strict-priority level (1=hi 2=med 3=lo)

## Command Mode

- /exec/configure/policy-map/type/queuing/class

# priority

priority <priority> [ forwarding-threshold lower <lower-value> upper <upper-value> ] | no priority [ forwarding-threshold ]

## Syntax Description

no	Negate a command or set its defaults
priority	Priority level
<i>priority</i>	Priority value
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
<i>lower-value</i>	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
<i>upper-value</i>	(Optional) Upper threshold value

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# priority

priority <value> | no priority

## Syntax Description

no	Negate a command or set its defaults
priority	Configure Bundle priority
<i>value</i>	Priority value

## Command Mode

- /exec/configure/anycast

# priority

[no] priority | priority <setup\_pri> [ <hold\_pri> ]

## Syntax Description

no	Negate a command or set its defaults
priority	tunnel priority
<i>setup_pri</i>	setup priority
<i>hold_pri</i>	(Optional) hold priority

## Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

# priority

[no] priority [ level <value> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
priority	Configure traffic class priority
level	(Optional) Specify level of priority
<i>value</i>	(Optional) Value of level, lower the number higher the priority

## Command Mode

- /exec/configure/policy-map/type/queuing/class

# priority

[no] priority | priority <val>

## Syntax Description

no	Negate a command or set its defaults
priority	Priority of this VRRP group
<i>val</i>	Priority level

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# priority

{ priority <pri-value> } | { no priority }

## Syntax Description

no	Negate a command or set its defaults
priority	Priority level
<i>pri-value</i>	Priority Value

## Command Mode

- /exec/configure/if-eth-any/glbp

# priority

```
{ priority <priority_value> [ forwarding-threshold lower <lower-value> upper <upper-value> ] | no priority
[ forwarding-threshold ] }
```

## Syntax Description

no	Negate a command or set its defaults
priority	Configure the vr priority
<i>priority_value</i>	Configure the vr priority
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
<i>lower-value</i>	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
<i>upper-value</i>	(Optional) Upper threshold value

## Command Mode

- /exec/configure/if-eth-any/vrrp



# private-vlan

[no] private-vlan <pvlan-type>

## Syntax Description

no	(Optional) Negate a command or set its defaults
private-vlan	Configure a private VLAN
<i>pvlan-type</i>	

## Command Mode

- /exec/configure/vlan TIMEOUT 420

# private-vlan association

```
{ private-vlan association [ { add | remove } ] <secondary_vlans> } | { no private-vlan association [ <secondary_vlans> ] }
```

## Syntax Description

private-vlan	Configure a private VLAN
association	Configure association between private VLANs
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>secondary_vlans</i>	VLAN IDs of the private VLANs to be configured

## Command Mode

- /exec/configure/vlan TIMEOUT 420

# private-vlan mapping

```
{ private-vlan mapping [ { add | remove } ] <secondary_vlans> } | { no private-vlan mapping [ <secondary_vlans> ] }
```

## Syntax Description

private-vlan	Configure a private VLAN
mapping	Set the private VLAN interface mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>secondary_vlans</i>	Secondary VLAN IDs of the private VLAN interface mapping

## Command Mode

- /exec/configure/if-vlan TIMEOUT 420

## private-vlan release resource

```
private-vlan release resource { [ vlan <vlan-id> ] | global }
```

### Syntax Description

private-vlan	Show information about private VLAN
release	release
resource	resource
vlan	(Optional) VLAN status
global	global rid
<i>vlan-id</i>	(Optional) VLAN IDs of the private VLANs to be configured

### Command Mode

- /exec

# private-vlan synchronize

private-vlan synchronize

## Syntax Description

private-vlan	Set private-vlan synchronization
synchronize	Synchronize vlans

## Command Mode

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

# probe

[no] probe <probe-id-icmp> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

## Command Mode

- /exec/configure/itd-dg-node

# probe

[no] probe <probe-id-dns> host <host-name> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/itd-dg-node

# probe

[no] probe <probe-id> port <port-num> [ control <status> ] [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/itd-dg-node



# probe

[no] probe <probe-id-icmp> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/itd-dg-node-standby

# probe

[no] probe <probe-id-dns> host <host-name> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/itd-dg-node-standby

# probe

[no] probe <probe-id> port <port-num> [ control <status> ] [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/itd-dg-node-standby

# probe

[no] probe <probe-id-icmp> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

## Command Mode

- /exec/configure/itd-device-group

# probe

[no] probe <probe-id-dns> host <host-name> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

## Command Mode

- /exec/configure/itd-device-group

# probe

[no] probe <probe-id> port <port-num> [ control <status> ] [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

## Command Mode

- /exec/configure/itd-device-group

# promiscuous-mode

promiscuous-mode { off | on } | no promiscuous-mode [ { off | on } ]

## Syntax Description

no	Negate a command or set its defaults
promiscuous-mode	Configure promiscuous mode for the port
off	Disable promiscuous mode
on	Enable promiscuous mode

## Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# propagate-sgt

[no] propagate-sgt

## Syntax Description

propagate-sgt	Enable SGT propagation from this port (the default use the no form to disable)
---------------	--------------------------------------------------------------------------------

## Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual



# protection

[no] protection | protection [ fast-reroute [ bw-protect ] ]

## Syntax Description

no	Negate a command or set its defaults
protection	Enable failure protection
fast-reroute	(Optional) Enable fast-reroute failure protection
bw-protect	(Optional) Enable BW protection

## Command Mode

- /exec/configure/te/lsp-attr

# protocol shutdown

[no] protocol shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
protocol	OSPF protocol
shutdown	Shutdown the OSPF protocol instance

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# protocol shutdown

[no] protocol shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
protocol	OSPF protocol
shutdown	shutdown the OSPF protocol instance

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# ptp

[no] ptp

## Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# ptp announce interval

[no] ptp announce interval <log-seconds>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
announce	announce
interval	interval
<i>log-seconds</i>	log seconds

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# ptp announce timeout

[no] ptp announce timeout <val>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
announce	announce
timeout	timeout
<i>val</i>	val

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# ptp delay-request minimum interval

[no] ptp delay-request minimum interval <log-seconds>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
delay-request	delay-request
minimum	minimum
interval	interval
<i>log-seconds</i>	log seconds

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# ptp domain

[no] ptp domain <domain-val>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Enter domain value

## Command Mode

- /exec/configure



# ptp priority1

[no] ptp priority1 <val>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority1	priority1
<i>val</i>	priority1

## Command Mode

- /exec/configure

# ptp priority2

[no] ptp priority2 <val>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority2	priority1
<i>val</i>	priority2

## Command Mode

- /exec/configure

# ptp source

```
[no] ptp source <src-ip> [ vrf { <vrf-name> | <vrf-cfg-name> } ]
```

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
source	source IP address
<i>src-ip</i>	IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-cfg-name</i>	(Optional) Configurable VRF name

## Command Mode

- /exec/configure

# ptp sync interval

[no] ptp sync interval <log-seconds>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
sync	sync
interval	interval
<i>log-seconds</i>	log seconds

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# ptp vlan

[no] ptp vlan <vlan>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
vlan	vlan
<i>vlan</i>	vlan

## Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

# publish-event sub-system

```
publish-event sub-system <sub-system-id> type <event-type> { [ arg1 <data1> ] [ arg2 <data2> ] [ arg3
<data3> ] [ arg4 <data4> ] }
```

## Syntax Description

publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
<i>sub-system-id</i>	Sub-system ID value
type	Event type value
<i>event-type</i>	Event type value
arg1	(Optional) User specified data to be passed when the event is published
<i>data1</i>	(Optional) User specified data value
arg2	(Optional) User specified data to be passed when the event is published
<i>data2</i>	(Optional) User specified data value
arg3	(Optional) User specified data to be passed when the event is published
<i>data3</i>	(Optional) User specified data value
arg4	(Optional) User specified data to be passed when the event is published
<i>data4</i>	(Optional) User specified data value

## Command Mode

- /exec

# purge ip route

purge ip route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>

## Syntax Description

purge	Purge
ip	IPv4
route	Purge routing information
vrf	(Optional) 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
all	Purge all routes

## Command Mode

- /exec

## purge ipv6 route

```
purge ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

### Syntax Description

purge	Purge
ipv6	IPv6
route	Purge routing information
vrf	(Optional) 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
all	Purge all routes

### Command Mode

- /exec



# push

push [ <name> ]

## Syntax Description

push	push current mode to stack or save it under name
<i>name</i>	(Optional) name

## Command Mode

- /global

# pwd

pwd

## Syntax Description

pwd	View current directory
-----	------------------------

## Command Mode

- /exec

# python

python [ <uri> [ <pyargs> ] + ]

## Syntax Description

python	run a python command/script, or enter python mode (if no arg)
<i>uri</i>	(Optional) path to a python file
<i>pyargs</i>	(Optional) python command line arguments (maximum 32)

## Command Mode

- /exec

# python execute virtual-service

python execute virtual-service <service> command [ <pyargs> ] +

## Syntax Description

python	run a python command/script, or enter python mode (if no arg)
execute	execute a virtual service command
virtual-service	virtual service to execute the command
command	command to execute
<i>service</i>	name of existing virtual service
<i>pyargs</i>	(Optional) command and args (maximum 32)

## Command Mode

- /exec

# python instance

[no] python instance <inst> [ <uri> [ <pyargs> ] + ] | python instance <inst> <uri> [ <pyargs> ] +

## Syntax Description

no	Negate a command or set its defaults
python	run a python command/script, or enter python mode (if no arg)
instance	label with an instance number
<i>inst</i>	instance number
<i>uri</i>	(Optional) path to a python file
<i>pyargs</i>	(Optional) python command line arguments (maximum 32)

## Command Mode

- /exec/configure





## Q Commands

---

- [qos copy policy-map type network-qos](#), on page 2356
- [qos copy policy-map type queuing](#), on page 2357
- [qos qos-policies statistics](#), on page 2358
- [qos shared-policer](#), on page 2359
- [qos statistics](#), on page 2363
- [queue-limit](#), on page 2364
- [queue-limit2](#), on page 2365

## qos copy policy-map type network-qos

qos copy policy-map type network-qos <pmap-nq-enum-name-dc3> { prefix | suffix } <ix-name>

### Syntax Description

copy	Copy (Clone) template
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-nq-enum-name-dc3</i>	
prefix	Policy map name prefix
suffix	Policy map name suffix
<i>ix-name</i>	Suffix/Prefix name, max size counted together with policy name

### Command Mode

- /exec



## qos copy policy-map type queuing

qos copy policy-map type queuing <pmap-name-que-temp> { prefix | suffix } <ix-name>

### Syntax Description

copy	Copy (Clone) template
policy-map	Configure a policy map
type	Specify the type of this policy-map
queuing	Queuing policy
<i>pmap-name-que-temp</i>	Policy-map name
prefix	Policy map name prefix
suffix	Policy map name suffix
<i>ix-name</i>	Suffix/Prefix name, max size counted together with policy name

### Command Mode

- /exec

# qos qos-policies statistics

[no] qos qos-policies statistics

## Syntax Description

no	(Optional) Negate a command or set its defaults
qos-policies	All qos type policies
statistics	statistics

## Command Mode

- /exec/configure

## qos shared-policer

```
{ qos shared-policer [ type qos ] <policer-name> { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps | pps ] | percent
<cir-perc> } [ [ bc ] { <committed-burst> [ bytes | kbytes | mbytes | ms | us | packets ] } ] [ pir { <pir-val> [
bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent <pir-perc> } [ [ be ] { <extended-burst> [ bytes2 | kbytes2 |
mbytes2 | ms2 | us2 | packets2 ] } ] ] [ conform { transmit | set-prec-transmit { <prec-val> | <prec-enum> } |
set-dscp-transmit { <dscp-val> | <dscp-enum> } | set-cos-transmit <cos-val> | set-discard-class-transmit
<disc-class-val> | set-qos-transmit <qos-grp-val> | set-mpls-exp-imposition-transmit <exp-value-imp> |
set-mpls-exp-topmost-transmit <exp-value-top> } [ exceed { drop1 | set <exc-frm-field> <exc-to-field> table
cir-markdown-map | set-prec-transmit1 { <prec-val1> | <prec-enum1> } | set-dscp-transmit1 { <dscp-val1>
| <dscp-enum1> } | set-cos-transmit1 <cos-val1> | set-discard-class-transmit1 <disc-class-val1> |
set-qos-transmit1 <qos-grp-val1> | set-mpls-exp-imposition-transmit1 <exp-value-imp1> |
set-mpls-exp-topmost-transmit1 <exp-value-top1> } ] [ violate { drop2 | set <vio-frm-field> <vio-to-field>
table2 pir-markdown-map | set-prec-transmit2 { <prec-val2> | <prec-enum2> } | set-dscp-transmit2 {
<dscp-val2> | <dscp-enum2> } | set-cos-transmit2 <cos-val2> | set-discard-class-transmit2 <disc-class-val2>
| set-qos-transmit2 <qos-grp-val2> | set-mpls-exp-imposition-transmit2 <exp-value-imp2> |
set-mpls-exp-topmost-transmit2 <exp-value-top2> } ] ] } | no qos shared-policer [ type qos ] <policer-name>
}
```

### Syntax Description

no	Negate a command or set its defaults
shared-policer	Shared policer
<i>policer-name</i>	Shared policer name
type	(Optional) Specify the type of shared-policer
qos	QoS Global Commands
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
pps	(Optional) Packets per second

bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
packets	(Optional) Packets
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value

<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)
<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value

<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action

### Command Mode

- /exec/configure

# qos statistics

[no] qos statistics

## Syntax Description

no	(Optional) Negate a command or set its defaults
statistics	statistics

## Command Mode

- /exec/configure

# queue-limit

```
[no] queue-limit [ cos <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent <perc-q-size>
| dynamic <alpha> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit	Configure queue size for the class
cos	(Optional) IEEE 802.1Q class of service
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
percent	Specify queue size in Percentage
<i>perc-q-size</i>	Queue size in percentage of total tx/rx buffer size
dynamic	Queue size in dynamic alpha factor
<i>alpha</i>	0-1/128, 1-1/64, 2-1/32, 3-1/16, 4-1/8, 5-1/4, 6-1/2, 7-1, 8-2, 9-4, 10-8
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

## Command Mode

- /exec/configure/policy-map/type/queuing/class



# queue-limit2

```
[no] queue-limit2 [ cos2 <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent2
<perc-q-size> | dynamic2 <alpha> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit2	Configure queue size for the class
cos2	(Optional) IEEE 802.1Q class of service
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
percent2	Specify queue size in Percentage
<i>perc-q-size</i>	Queue size in percentage of total tx/rx buffer size
dynamic2	Queue size in dynamic alpha factor
<i>alpha</i>	0-1/128, 1-1/64, 2-1/32, 3-1/16, 4-1/8, 5-1/4, 6-1/2, 7-1, 8-2, 9-4, 10-8
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

## Command Mode

- /exec/configure/policy-map/type/queuing/class





## R Commands

---

- [radius-server deadtime](#), on page 2371
- [radius-server directed-request](#), on page 2372
- [radius-server host](#), on page 2373
- [radius-server key](#), on page 2375
- [radius-server pss-clean](#), on page 2376
- [radius-server retransmit](#), on page 2377
- [radius-server timeout](#), on page 2378
- [random-detect](#), on page 2379
- [random-detect2 minimum-threshold2](#), on page 2380
- [random-detect](#), on page 2381
- [random-detect cos-based](#), on page 2382
- [rate-mode](#), on page 2383
- [reconnect-interval](#), on page 2384
- [record-route](#), on page 2385
- [record-route](#), on page 2386
- [record](#), on page 2387
- [record netflow-original](#), on page 2388
- [record netflow](#), on page 2389
- [record netflow](#), on page 2390
- [record netflow](#), on page 2391
- [record netflow protocol-port](#), on page 2392
- [redistribute](#), on page 2393
- [redistribute](#), on page 2394
- [redistribute](#), on page 2395
- [redistribute](#), on page 2396
- [redistribute](#), on page 2397
- [redistribute](#), on page 2398
- [redistribute](#), on page 2399
- [redistribute](#), on page 2400
- [redistribute](#), on page 2401
- [redistribute](#), on page 2402
- [redistribute](#), on page 2403
- [redistribute](#), on page 2404

- redistribute filter route-map, on page 2405
- redistribute maximum-prefix, on page 2406
- redistribute maximum-prefix, on page 2407
- redistribute maximum-prefix, on page 2408
- redistribute maximum-prefix, on page 2409
- redistribute maximum-prefix, on page 2410
- reference-bandwidth, on page 2411
- register-database-mapping, on page 2412
- register-route-notifications, on page 2413
- reload, on page 2414
- reload ascii, on page 2415
- reload force, on page 2416
- reload kexec, on page 2417
- reload kexec, on page 2418
- reload restore, on page 2419
- reload vdc, on page 2420
- reload vdc, on page 2421
- remote-as, on page 2422
- remote, on page 2423
- remove-private-as, on page 2424
- remove-routes vni, on page 2425
- reoptimize events link-up, on page 2426
- replay-protection, on page 2427
- replication-server, on page 2428
- report, on page 2429
- report, on page 2430
- report, on page 2431
- report, on page 2432
- report, on page 2433
- report, on page 2434
- report, on page 2435
- request-data-size, on page 2436
- request-data-size, on page 2437
- request-data-size, on page 2438
- resequence, on page 2439
- reset, on page 2440
- reset, on page 2441
- reset, on page 2442
- reset, on page 2443
- reset, on page 2444
- reset, on page 2445
- reset, on page 2446
- restart amt, on page 2447
- restart bgp, on page 2448
- restart eigrp, on page 2449
- restart igmp, on page 2450

- restart isis, on page 2451
- restart l3vm, on page 2452
- restart lisp, on page 2453
- restart msdp, on page 2454
- restart orib, on page 2455
- restart ospf, on page 2456
- restart ospfv3, on page 2457
- restart otv-isis, on page 2458
- restart otv, on page 2459
- restart pim, on page 2460
- restart pim6, on page 2461
- restart rip, on page 2462
- restart rpm, on page 2463
- restart rsvp, on page 2464
- resync-database, on page 2465
- retain route-target, on page 2466
- retransmit-interval, on page 2467
- retransmit-interval, on page 2468
- retransmit-interval, on page 2469
- revision, on page 2470
- revocation-check, on page 2471
- rfc1583compatibility, on page 2472
- rip shutdown, on page 2473
- rmdir, on page 2474
- rmon event, on page 2475
- roaming-eid-prefix, on page 2476
- role feature-group name, on page 2477
- role name, on page 2478
- role priority, on page 2479
- rollback progress stats, on page 2480
- rollback running-config, on page 2481
- route-map, on page 2482
- route-map, on page 2483
- route-map, on page 2484
- route-map, on page 2485
- route-map, on page 2486
- route-map, on page 2487
- route-map, on page 2488
- route-reflector-client, on page 2489
- route-reflector-client, on page 2490
- route-target both, on page 2491
- route-target export, on page 2492
- route-target import, on page 2493
- route delete dampen interval, on page 2494
- router-id, on page 2495
- router-id, on page 2496

- [router-id](#), on page 2497
- [router-id](#), on page 2498
- [router-id](#), on page 2499
- [router bgp](#), on page 2500
- [router eigrp](#), on page 2501
- [router isis](#), on page 2502
- [router ospf](#), on page 2503
- [router ospfv3](#), on page 2504
- [router rip](#), on page 2505
- [routing-context vrf](#), on page 2506
- [routing ipv4 unicast nexthop-sorting](#), on page 2507
- [routing ipv6 unicast nexthop-sorting](#), on page 2508
- [rsakeypair](#), on page 2509
- [rtr](#), on page 2510
- [rule](#), on page 2511
- [rule](#), on page 2512
- [run-script](#), on page 2513
- [run-show-tech-script](#), on page 2514
- [run2 guestshell](#), on page 2515
- [run bash](#), on page 2516

# radius-server deadtime

[no] radius-server deadtime <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

## Command Mode

- /exec/configure

# radius-server directed-request

[no] radius-server directed-request

## Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
directed-request	enable direct authentication requests to server

## Command Mode

- /exec/configure



## radius-server host

```
{ { [ no ] radius-server host <hostipname> { { key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } [ pac ] [ auth-port <i0>
[ acct-port <i1> ] ] } | { [ auth-port1 <i2> ] [ acct-port1 <i3> ] } } [ { authentication [ accounting [ timeout
<i4> ] [ retransmit <i5> ] ] } | { [ accounting1 ] [ timeout1 <i6> ] [ retransmit1 <i7> ] } } } | { no radius-server
host <hostipname> key } }
```

### Syntax Description

<i>key</i>	0
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
host	RADIUS server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
key	RADIUS shared secret
pac	(Optional) Secure Radius Enable
0	RADIUS shared secret(clear text)
<i>s0</i>	RADIUS shared secret(clear text)
accounting	(Optional) Use for accounting
retransmit	(Optional) RADIUS server retransmit count
<i>i5</i>	(Optional) RADIUS server retransmit count
timeout	(Optional) RADIUS server timeout period in seconds
<i>i4</i>	(Optional) RADIUS server timeout period in seconds
retransmit1	(Optional) RADIUS server retransmit count
<i>i7</i>	(Optional) RADIUS server retransmit count
auth-port	(Optional) RADIUS server's port for authentication
<i>i0</i>	(Optional) port number
timeout1	(Optional) RADIUS server timeout period in seconds
<i>i6</i>	(Optional) RADIUS server timeout period in seconds
acct-port	(Optional) RADIUS server's port for accounting
<i>i1</i>	(Optional) port number
accounting1	(Optional) Use for accounting

authentication	(Optional) Use for authentication
6	Radius shared secret(type-6 encrypted)
s6	Tadius shared secret(encrypted)
7	RADIUS shared secret(encrypted)
s1	RADIUS shared secret(encrypted)
auth-port1	(Optional) RADIUS server's port for authentication
i2	(Optional) port number
s2	RADIUS shared secret(clear text)
acct-port1	(Optional) RADIUS server's port for accounting
i3	(Optional) port number

### Command Mode

- /exec/configure

# radius-server key

```
{ { [ no ] radius-server key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } } | { no radius-server key } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
key	Global RADIUS server shared secret
0	default RADIUS shared secret(clear text)
<i>s0</i>	default RADIUS shared secret(clear text)
6	default RADIUS shared secret(type-6 encrypted)
<i>s6</i>	default RADIUS shared secret(type-6 encrypted)
7	default RADIUS shared secret(encrypted)
<i>s1</i>	default RADIUS shared secret(encrypted)
<i>s2</i>	default RADIUS shared secret(clear text)

## Command Mode

- /exec/configure

# radius-server pss-clean

[no] radius-server pss-clean

## Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
pss-clean	Erase PSS

## Command Mode

- /exec/configure

# radius-server retransmit

[no] radius-server retransmit <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
retransmit	Global RADIUS server retransmit count
<i>i0</i>	Global RADIUS server retransmit count

## Command Mode

- /exec/configure

# radius-server timeout

[no] radius-server timeout <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
timeout	Global RADIUS server timeout period in seconds
<i>i0</i>	RADIUS server timeout period in seconds

## Command Mode

- /exec/configure

# random-detect

```
[no] random-detect [ { minimum-threshold <min-thresh> { packets | bytes | kbytes | mbytes }
maximum-threshold <max-thresh> { packets1 | bytes1 | kbytes1 | mbytes1 } drop-probability <drop-prob>
weight <weight> [ cap-average ] } | threshold { burst-optimized | mesh-optimized } ] [ ecn ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
threshold	(Optional) Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
drop-probability	(Optional) Drop Probability at Maximum Threshold
<i>drop-prob</i>	(Optional) Drop Probability Value
weight	(Optional) Queue length weight
<i>weight</i>	(Optional) Queue length weight
cap-average	(Optional) If average queue length is more, replace average queue length with current queue length
ecn	(Optional) ECN

## Command Mode

- /exec/configure/policy-map/type/queuing/class

## random-detect2 minimum-threshold2

```
[no] random-detect2 minimum-threshold2 <min-thresh2> { packets2 | bytes2 | kbytes2 | mbytes2 }
maximum-threshold2 <max-thresh2> { packets3 | bytes3 | kbytes3 | mbytes3 } [ drop-probability2 <drop-prob2>
weight2 <weight2> [ cap-average2 ] ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect2	Configure WRED parameters
minimum-threshold2	Specify minimum threshold for WRED
maximum-threshold2	Specify maximum threshold for WRED
packets2	Packets
bytes2	Bytes
kbytes2	Kilo Bytes
mbytes2	Mega Bytes
packets3	Packets
bytes3	Bytes
kbytes3	Kilo Bytes
mbytes3	Mega Bytes
drop-probability2	(Optional) Drop Probability at Maximum Threshold
<i>drop-prob2</i>	(Optional) Drop Probability Value
weight2	(Optional) Queue length weight
<i>weight2</i>	(Optional) Queue length weight
cap-average2	(Optional) If average queue length is more, replace average queue length with current queue length

### Command Mode

- /exec/configure/policy-map/type/queuing/class



# random-detect

```
[no] random-detect { cos <cos-list> [ minimum-threshold ] { <min-thresh> [ packets | bytes | kbytes | mbytes
| ms | us ] | percent <min-percent-of-qsize> } [ maximum-threshold ] { <max-thresh> [ packets1 | bytes1 |
kbytes1 | mbytes1 | ms1 | us1 ] | percent1 <max-percent-of-qsize> } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
cos	Parameters for each cos value
<i>cos-list</i>	List of class-of-service values
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
percent	Specify thresholds in percent
percent1	Specify thresholds in percent
<i>min-percent-of-qsize</i>	Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	Maximum threshold percent of queue size
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ms1	(Optional) Milli second(s)
us1	(Optional) Micro second(s)

## Command Mode

- /exec/configure/policy-map/type/queuing/class

## random-detect cos-based

[no] random-detect cos-based [ aggregate [ minimum-threshold ] { <min-thresh> [ packets | bytes | kbytes | mbytes | ms | us ] | percent <min-percent-of-qsize> } [ maximum-threshold ] { <max-thresh> [ packets1 | bytes1 | kbytes1 | mbytes1 | ms1 | us1 ] | percent1 <max-percent-of-qsize> } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
cos-based	Configure WRED parameters for cos-based mode
aggregate	(Optional) Configure WRED parameters to same value for all sub-classes
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
percent	(Optional) Specify thresholds in percent
percent1	(Optional) Specify thresholds in percent
<i>min-percent-of-qsize</i>	(Optional) Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	(Optional) Maximum threshold percent of queue size
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ms1	(Optional) Milli second(s)
us1	(Optional) Micro second(s)

### Command Mode

- /exec/configure/policy-map/type/queuing/class

# rate-mode

rate-mode <ratemode> [ force ] | no rate-mode [ <ratemode> ] [ force ]

## Syntax Description

no	Negate a command or set its defaults
rate-mode	Enter the rate mode
force	(Optional) This option will shutdown all ports in port-group momentarily
<i>ratemode</i>	Interface port speed

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# reconnect-interval

reconnect-interval <interval> | no reconnect-interval [ <interval> ]

## Syntax Description

no	Negate a command or set its defaults
reconnect-interval	Configure connection reconnect interval
<i>interval</i>	Interval in seconds

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# record-route

[no] record-route

## Syntax Description

no	(Optional) Negate a command or set its defaults
record-route	Record the route used by the LSP

## Command Mode

- /exec/configure/te/lsp-attr

# record-route

[no] record-route

## Syntax Description

no	(Optional) Negate a command or set its defaults
record-route	record the route used by the tunnel

## Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

# record

[no] record <recordname>

## Syntax Description

record	Specify Flow Record to use
<i>recordname</i>	Name of record

## Command Mode

- /exec/configure/nfm-monitor

# record netflow-original

[no] record netflow-original

## Syntax Description

record	Specify Flow Record to use
netflow-original	Traditional IPv4 input NetFlow with origin ASs

## Command Mode

- /exec/configure/nfm-monitor



# record netflow

```
[no] record netflow { ipv4 { original-input | original-output } }
```

## Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
ipv4	Traditional IPv4 NetFlow collection schemes
original-input	Traditional IPv4 input NetFlow
original-output	Traditional IPv4 output NetFlow

## Command Mode

- /exec/configure/nfm-monitor

# record netflow

```
[no] record netflow { ipv6 { original-input | original-output } }
```

## Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
ipv6	IPv6 collection schemes
original-input	Input NetFlow
original-output	Output NetFlow

## Command Mode

- /exec/configure/nfm-monitor

# record netflow

[no] record netflow { layer2-switched { input } }

## Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
layer2-switched	Traditional L2 NetFlow collection schemes
input	Input NetFlow

## Command Mode

- /exec/configure/nfm-monitor

# record netflow protocol-port

[no] record netflow protocol-port

## Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
protocol-port	Protocol and Ports aggregation scheme

## Command Mode

- /exec/configure/nfm-monitor

# redistribute

[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map <map-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
tag	Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
map-name	Route-map name

## Command Mode

- /exec/configure/router-rip/router-rip-af-ipv6 /exec/configure/router-rip/router-rip-vrf-af-ipv6

# redistribute

```
{ redistribute { { bgp <as> } | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map {
<policy-name> | <rtr_pol_name> } } | { no redistribute { { bgp <as> } | { eigrp | isis | ospfv3 | rip } <tag> |
static | direct | amt | lisp } [ route-map { <policy-name> | <rtr_pol_name> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospfv3	Open Shortest Path First (OSPFv3)
rip	Routing Information Protocol (RIP)
tag	Process Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
policy-name	Route-map name
rtr_pol_name	

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

# redistribute

[no] redistribute { static | direct } route-map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Configure redistribution
static	Static routes
direct	Directly connected
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

# redistribute

[no] redistribute { { { eigrp | isis | ospf | rip } <tag> } | amt | lisp } route-map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Configure redistribution
isis	ISO IS-IS
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Protocol
amt	AMT anycast prefix
lisp	LISP EID-prefixes in the non-default VRF
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name
<i>tag</i>	Source protocol tag

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4



# redistribute

[no] redistribute { static | direct } route-map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Configure redistribution
static	Static routes
direct	Directly connected
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

# redistribute

[no] redistribute { { { eigrp | isis | ospfv3 | rip } <tag> } | amt | lisp } route-map <rmap-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Configure redistribution
isis	ISO IS-IS
ospfv3	Open Shortest Path First, version 3 (OSPFv3)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Protocol
amt	AMT anycast prefix
lisp	LISP EID-prefixes in the non-default VRF
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name
<i>tag</i>	Source protocol tag

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

# redistribute

```
[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map {
<map-name> | <rtr_pol_name> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Process tag
static	Static routes
direct	Directly connected
lisp	LISP EID-prefixes
amt	AMT Anycast prefix
route-map	Route-map to constrain redistribution
map-name	Route-map name
rtr_pol_name	

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-ipv4

# redistribute

[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map { <map-name> | <rtr\_pol\_name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
map-name	Route-map name
rtr_pol_name	

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-af-ipv6

# redistribute

```
{ redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map { <policy-name>
| <rtr_pol_name> } } | { no redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp
} [ route-map { <policy-name> | <rtr_pol_name> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
tag	Protocol Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
policy-name	Route-map name
rtr_pol_name	

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# redistribute

[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map <map-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
as	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
tag	Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
map-name	Route-map name

## Command Mode

- /exec/configure/router-rip/router-rip-af-ipv4 /exec/configure/router-rip/router-rip-vrf-af-ipv4

# redistribute

```
[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map {
<map-name> | <rtr_pol_name> }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
eigrp	Enhanced Interior Gateway Protocol
rip	RIP for IPv4
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
map-name	A 'routing-rules' route-map name
rtr_pol_name	

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

# redistribute

[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map { <map-name> | <rtr\_pol\_name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
eigrp	Enhanced Interior Gateway Protocol
rip	RIP for IPv6 (RIPNG)
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
map-name	A 'routing-rules' route-map name
rtr_pol_name	

## Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6



# redistribute filter route-map

[no] redistribute filter route-map { <map-name> | <rtr\_pol\_name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
filter	Filter redistributed routes
route-map	Route-map to constrain redistribution
<i>map-name</i>	A 'routing-rules' route-map name
<i>rtr_pol_name</i>	

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# redistribute maximum-prefix

```
{ redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] } | { no redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] }
```

## Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Maximum number of prefixes redistributed to protocol
<i>maximum</i>	Maximum number of IP prefixes redistributed
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of times to retry to get the redistributed routes again
<i>timeout</i>	(Optional) Timeout between each retries

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# redistribute maximum-prefix

```
{ redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] } | { no redistribute maximum-prefix }
```

## Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Maximum number of prefixes redistributed to protocol
<i>maximum</i>	Maximum number of IP prefixes redistributed
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of times to retry to get the redistributed routes again
<i>timeout</i>	(Optional) Timeout between each retries

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

# redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] ]
```

## Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
warning-only	(Optional) Warning msg is logged when threshold is reached
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of attempts to receive redistributed routes after max is reached
<i>timeout</i>	(Optional) Retry interval

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout>
]] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries>
<timeout> ] ] ]
```

## Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
warning-only	(Optional) Warning msg is logged when max is reached
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) No of times to retry to get redist routes again
<i>timeout</i>	(Optional) Time between the retries

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

# redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] ]
```

## Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
warning-only	(Optional) Warning msg is logged when max is reached
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) No of times to retry to get redist routes again
<i>timeout</i>	(Optional) Time between the retries

## Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

# reference-bandwidth

[no] reference-bandwidth { <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps }

## Syntax Description

no	(Optional) Negate a command or set its defaults
reference-bandwidth	Change reference bandwidth used for setting interface metric
<i>ref-bw-mbps</i>	Bandwidth in Mbps (Default)
Mbps	(Optional) Specify in Mbps
<i>ref-bw-gbps</i>	Bandwidth in Gbps
Gbps	Specify in Gbps

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# register-database-mapping

{ [ no ] register-database-mapping }

## Syntax Description

no	(Optional) Negate a command or set its defaults
register-database-mapping	Register database-mapping EID-prefix to Map-Server

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid



# register-route-notifications

{ [ no ] register-route-notifications }

## Syntax Description

no	(Optional) Negate a command or set its defaults
register-route-notifications	Register more-specific routes of the database-mapping EID-prefix to Map-Server

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

# reload

reload

## Syntax Description

reload	reboot the entire box
--------	-----------------------

## Command Mode

- /exec

# reload ascii

reload ascii [ vdc-all ]

## Syntax Description

reload	Power cycle
ascii	Reload with ASCII startup-configuration
vdc-all	(Optional) Perform for all vdes

## Command Mode

- /exec

# reload force

reload force

## Syntax Description

reload	reboot the entire box
force	reload without prompting

## Command Mode

- /exec

# reload kexec

reload kexec

## Syntax Description

reload	reboot the entire box
kexec	reboot using kexec

## Command Mode

- /exec

# reload kexec

reload kexec <s0> <s1>

## Syntax Description

reload	reboot the entire box
kexec	reboot using kexec
<i>s0</i>	please enter the boot image name
<i>s1</i>	please enter the isan image name

## Command Mode

- /exec

# reload restore

reload restore [ delay <time-out> ] | no reload restore

## Syntax Description

no	Negate a command or set its defaults
reload	Settings for vpc action on reload with vpc configs
restore	restore vpcs assuming peer is not functional
delay	(Optional) Duration to wait before assuming peer dead and restoring vpcs
<i>time-out</i>	(Optional) Time-out for restoring vPC links (in seconds)

## Command Mode

- /exec/configure/vpc-domain

# reload vdc

reload vdc <d-vdc>

## Syntax Description

vdc	Restart the current vdc
reload	Power cycle
<i>d-vdc</i>	Enter Virtual Device Context <vdc-id>

## Command Mode

- /exec



# reload vdc

reload vdc

## Syntax Description

vdc	Restart the current vdc
reload	Power cycle

## Command Mode

- /exec

# remote-as

```
{ remote-as <asn> } | { { no | default } remote-as [ <asn> ] }
```

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
remote-as	Specify Autonomous System Number of the neighbor
<i>asn</i>	Autonomous System Number

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# remote

```
remote { { ip address { <ipaddress> } | hostname <host_name> } [ port <port_no> ] [ vrf { <vrf-name> |
<vrf-known-name> } ] | port <port_no> | vrf { <vrf-name> | <vrf-known-name> } } | no remote { ip address
| hostname | port }
```

## Syntax Description

no	Negate a command or set its defaults
remote	Configure remote machine information
ip	Configure IP features
address	Configure IP address
<i>ipaddress</i>	Enter ipv4 address information
hostname	Configure remote host name
<i>host_name</i>	Enter name of the remote host
port	(Optional) Configure remote host tcp port
<i>port_no</i>	(Optional) Configure the host tcp port number
vrf	(Optional) vrf via which the vCenter Server is reachable
<i>vrf-name</i>	(Optional) Specify the vrf-name
<i>vrf-known-name</i>	(Optional) Known VRF name

## Command Mode

- /exec/configure/vmt-conn

# remove-private-as

[ no | default ] remove-private-as [ all | replace-as ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
remove-private-as	Remove private AS number from outbound updates
all	(Optional) All
replace-as	(Optional) Replace

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# remove-routes vni

remove-routes vni <vni-id>

## Syntax Description

remove-routes	NVE Peer
vni	Virtual Network Identifier
<i>vni-id</i>	VNI

## Command Mode

- /exec/configure/if-nve

## reoptimize events link-up

[no] reoptimize events link-up | no reoptimize timers { delay { cleanup | installation } | frequency } | reoptimize timers { delay { cleanup <clean\_sec> | installation <inst\_sec> } | frequency <freq\_sec> }

### Syntax Description

no	(Optional) Negate a command or set its defaults
reoptimize	Reoptimization parameters
events	Reoptimization triggers
link-up	Reoptimize tunnels on link up events
timers	Reoptimization timers
delay	Delay reoptimization action
cleanup	Delay cleanup of reoptimized LSP
<i>clean_sec</i>	seconds to delay cleanup of replaced tunnel LSP
installation	Delay replacement of current LSP by reoptimized LSP
<i>inst_sec</i>	seconds to delay replacement of tunnel LSP
frequency	Interval between reoptimization scans
<i>freq_sec</i>	seconds between reoptimizations (0 disables reoptimization)

### Command Mode

- /exec/configure/te

# replay-protection

[no] replay-protection

## Syntax Description

replay-protection	Enable replay-protection (the default use the no form to disable)
-------------------	-------------------------------------------------------------------

## Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

# replication-server

[no] replication-server <addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
replication-server	Configure a replication server
<i>addr</i>	Replication Server IP Address

## Command Mode

- /exec/configure/if-nve



# report

report

## Syntax Description

report	Show trigger report
--------	---------------------

## Command Mode

- /exec/elamns/sel3

# report

report

## Syntax Description

report	Show trigger report
--------	---------------------

## Command Mode

- /exec/elanms/se14

# report

report

## Syntax Description

report	Show trigger report
--------	---------------------

## Command Mode

- /exec/elamns/sel5

# report

report

## Syntax Description

report	Show trigger report
--------	---------------------

## Command Mode

- /exec/elanms/se16

# report

report

## Syntax Description

report	Show trigger report
--------	---------------------

## Command Mode

- /exec/elamns/sel7

# report

report

## Syntax Description

report	Show trigger report
--------	---------------------

## Command Mode

- /exec/eramns/outse10

# report

report

## Syntax Description

report	Show trigger report
--------	---------------------

## Command Mode

- /exec/elamns/outsel5

# request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

## Syntax Description

no	
default	Set a command to its defaults
request-data-size	Request data size
<i>bytes-in-payload</i>	Number of bytes in payload

## Command Mode

- /exec/configure/ip-sla/udp



# request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

## Syntax Description

no	
default	Set a command to its defaults
request-data-size	Request data size
<i>bytes-in-payload</i>	Number of bytes in payload

## Command Mode

- /exec/configure/ip-sla/icmpEcho

# request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

## Syntax Description

no	
default	Set a command to its defaults
request-data-size	Request data size
<i>bytes-in-payload</i>	Number of bytes in payload

## Command Mode

- /exec/configure/ip-sla/jitter

# resequence

resequence { { <ip\_ipv6\_mac\_arp> access-list } | time-range } <name> <number> <increment>

## Syntax Description

resequence	Resequence a list with sequence numbers
<i>ip_ipv6_mac_arp</i>	IP/IPv6/MAC/ARP
access-list	Resequence an access list
time-range	Resequence a time-range
<i>name</i>	List name
<i>number</i>	Starting sequence number
<i>increment</i>	Step to increment the sequence number

## Command Mode

- /exec/configure

# reset

reset

## Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

## Command Mode

- /exec/elanms/se13

# reset

reset

## Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

## Command Mode

- /exec/elamns/sel4

# reset

reset

## Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

## Command Mode

- /exec/elanms/se15

# reset

reset

## Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

## Command Mode

- /exec/alamns/sel6

# reset

reset

## Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

## Command Mode

- /exec/elanms/se17



# reset

reset

## Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

## Command Mode

- /exec/elanms/outse0

# reset

reset

## Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

## Command Mode

- /exec/elanms/outse15

# restart amt

restart amt

## Syntax Description

restart	Manually restart a component
amt	Restart the AMT multicast routing protocol

## Command Mode

- /exec

# restart bgp

restart bgp <as>

## Syntax Description

restart	Manually restart a component
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous

## Command Mode

- /exec

# restart eigrp

restart eigrp <eigrp-ptag>

## Syntax Description

restart	Manually restart a component
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>eigrp-ptag</i>	Process tag

## Command Mode

- /exec

# restart igmp

restart igmp

## Syntax Description

restart	Manually restart a component
igmp	Restart the IGMP multicast routing protocol

## Command Mode

- /exec

# restart isis

restart isis <tag>

## Syntax Description

restart	Manually restart a component
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Routing process tag

## Command Mode

- /exec

# restart l3vm

restart l3vm

## Syntax Description

restart	Manually restart a component
l3vm	Display VRF information

## Command Mode

- /exec



# restart lisp

restart lisp

## Syntax Description

restart	Manually restart a component
lisp	Restart the LISP Locator/ID Separation Protocol

## Command Mode

- /exec

# restart msdp

restart msdp

## Syntax Description

restart	Manually restart a component
msdp	Restart the MSDP multicast routing protocol

## Command Mode

- /exec

# restart orib

restart orib

## Syntax Description

restart	Manually restart a component
orib	OTV RIB (ORIB)

## Command Mode

- /exec

# restart ospf

restart ospf <tag>

## Syntax Description

restart	Manually restart a component
ospf	Open Shortest Path First (OSPF)
<i>tag</i>	Process tag

## Command Mode

- /exec

# restart ospfv3

restart ospfv3 <tag>

## Syntax Description

restart	Manually restart a component
ospfv3	Open Shortest Path First (OSPF) (Version 3)
<i>tag</i>	Process tag

## Command Mode

- /exec

# restart otv-isis

restart otv-isis <tag>

## Syntax Description

restart	Manually restart a component
otv-isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Routing process tag

## Command Mode

- /exec

# restart otv

restart otv

## Syntax Description

restart	Manually restart a component
otv	Overlay Transport Virtualization (OTV)

## Command Mode

- /exec

# restart pim

restart pim

## Syntax Description

restart	Manually restart a component
pim	Restart the PIM multicast routing protocol

## Command Mode

- /exec



# restart pim6

restart pim6

## Syntax Description

restart	Manually restart a component
pim6	Restart the PIM6 multicast routing protocol

## Command Mode

- /exec

# restart rip

restart rip <tag>

## Syntax Description

restart	Manually restart a component
rip	Routing Information Protocol (RIP)
<i>tag</i>	Process ID

## Command Mode

- /exec

# restart rpm

restart rpm

## Syntax Description

restart	Manually restart a component
rpm	Route Policy Manager (RPM)

## Command Mode

- /exec

# restart rsvp

restart rsvp

## Syntax Description

restart	Manually restart a process
rsvp	RSVP process

## Command Mode

- /exec

# resync-database

resync-database

## Syntax Description

resync-database	Re-synchronize switch-profile database
-----------------	----------------------------------------

## Command Mode

- /exec/configure

# retain route-target

[no] retain route-target { all | route-map <rmap-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
retain	Retain the routes based on Target VPN Extended Communities
route-target	Specify Target VPN Extended Communities
all	All the routes regardless of Target-VPN community
route-map	Apply route-map to filter routes
<i>rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-af-ipv6  
/exec/configure/router-bgp/router-bgp-af-l2vpn-vpls /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# retransmit-interval

{ { retransmit-interval <interval> } | { no retransmit-interval [ <interval> ] } }

## Syntax Description

no	Negate a command or set its defaults
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

# retransmit-interval

{ { retransmit-interval <interval> } | { no retransmit-interval [ <interval> ] } }

## Syntax Description

no	Negate a command or set its defaults
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink



# retransmit-interval

{ { retransmit-interval <interval> } | { no retransmit-interval [ <interval> ] } }

## Syntax Description

no	Negate a command or set its defaults
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

# revision

revision <rev-id> | no revision [ <rev-id> ]

## Syntax Description

no	Negate a command or set its defaults
revision	Set configuration revision number
<i>rev-id</i>	Configuration revision number

## Command Mode

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

# revocation-check

[no] revocation-check { crl [ none ] | none }

## Syntax Description

no	(Optional) Negate a command or set its defaults
revocation-check	Configure trustpoint revocation check methods
crl	Configure revocation check using crl
none	(Optional) Configure revocation check using none
none	Configure revocation check using none

## Command Mode

- /exec/configure/trustpoint

# rfc1583compatibility

[no] rfc1583compatibility

## Syntax Description

no	(Optional) Negate a command or set its defaults
rfc1583compatibility	Configure 1583 compatibility for external path preferences

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# rip shutdown

[no] rip shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
rip	RIP configuration commands
shutdown	Shutdown RIP on this interface

## Command Mode

- /exec/configure/if-igp

# rmdir

rmdir { <uri0> | <uri1> }

## Syntax Description

rmdir	Delete a directory
<i>uri0</i>	Delete a directory
<i>uri1</i>	Delete a directory on expansion flash

## Command Mode

- /exec

# rmon event

rmon event <i0> [ log ] [ trap <s0> ] [ description <s1> ] [ owner <s2> ] | no rmon event <i0>

## Syntax Description

no	Negate a command or set its defaults
rmon	Remote Monitoring
event	Configure an RMON event
<i>i0</i>	Event number
log	(Optional) Generate RMON log when the event fires
trap	(Optional) Generate SNMP trap when event fires
<i>s0</i>	(Optional) SNMP community string
description	(Optional) Specify a description of the event
<i>s1</i>	(Optional) Event description
owner	(Optional) Specify an owner for the event
<i>s2</i>	(Optional) Event owner

## Command Mode

- /exec/configure

# roaming-eid-prefix

```
{ [ no ] roaming-eid-prefix { <eid-prefix> | <eid-prefix6> } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
roaming-eid-prefix	Configures what EID-prefixes allowed to roam
<i>eid-prefix</i>	IPv4 roaming EID-prefix

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid



# role feature-group name

[no] role feature-group name <arg6>

## Syntax Description

no	(Optional) Negate a command or set its defaults
role	Configure roles
feature-group	Configure role feature-group
name	Feature-group name
<i>arg6</i>	Enter feature-group name

## Command Mode

- /exec/configure

# role name

[no] role name <arg2>

## Syntax Description

no	(Optional) Negate a command or set its defaults
role	Configure roles
name	Enter the role name
<i>arg2</i>	Enter the role name

## Command Mode

- /exec/configure

# role priority

role priority <priority\_value> | no role priority

## Syntax Description

no	Negate a command or set its defaults
role	Role related configuration
priority	Configure priority to be used during vPC role (primary/secondary) election
<i>priority_value</i>	specify priority value

## Command Mode

- /exec/configure/vpc-domain

# rollback progress stats

[no] rollback progress stats

## Syntax Description

no	(Optional) negate the command
rollback	Rollback configuration
progress	Rollback progress
stats	Enable rollback progress stats

## Command Mode

- /exec

# rollback running-config

```
rollback running-config { checkpoint <chkpoint_name> | file <file_uri> } [ best-effort | stop-at-first-failure | atomic ] [ verbose ]
```

## Syntax Description

rollback	Rollback configuration
running-config	Rollback running configuration
checkpoint	Rollback running configuration to checkpoint
<i>chkpoint_name</i>	Checkpoint name
file	Rollback running configuration to configuration file
<i>file_uri</i>	Checkpoint file path
best-effort	(Optional) Skip errors and proceed with rollback
stop-at-first-failure	(Optional) Stop rollback at the first error
atomic	(Optional) Stop rollback and revert to original configuration (default)
verbose	(Optional) Show the execution log

## Command Mode

- /exec

# route-map

[ no | default ] route-map <rmap-name> { out | in }

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-map	Apply route-map to neighbor
<i>rmap-name</i>	Route-map name
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

# route-map

[ no | default ] route-map <rmap-name> { out | in }

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-map	Apply route-map to neighbor
<i>rmap-name</i>	Route-map name
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

# route-map

```
route-map <route-map-name> pbr-statistics | no route-map { <route-map-name> | <route-map-name> }
pbr-statistics
```

## Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>route-map-name</i>	
<i>route-map-name</i>	
<i>route-map-name</i>	
pbr-statistics	Statistics for policy based routing

## Command Mode

- /exec/configure



# route-map

route-map <rtmap-name> [ permit | deny ]

## Syntax Description

route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations

## Command Mode

- /exec/configure

# route-map

route-map <rtmap-name> [ permit | deny ] <seq>

## Syntax Description

route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations
<i>seq</i>	Sequence to insert to/delete from existing route-map entry

## Command Mode

- /exec/configure

# route-map

[no] route-map { <rtmap-name> | <rtmap-name> } [ permit | deny ]

## Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
<i>rtmap-name</i>	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations

## Command Mode

- /exec/configure

# route-map

[no] route-map { <rtmap-name> | <rtmap-name> } [ permit | deny ] <seq>

## Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
<i>rtmap-name</i>	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations
<i>seq</i>	Sequence to insert to/delete from existing route-map entry

## Command Mode

- /exec/configure

# route-reflector-client

[ no | default ] route-reflector-client

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-reflector-client	Configure a neighbor as Route reflector client

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

# route-reflector-client

[ no | default ] route-reflector-client

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-reflector-client	Configure a neighbor as Route reflector client

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

## route-target both

```
{ route-target both { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target both [
<ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> ] }
```

### Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
both	Export And Import Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	
<i>ext-comm-rt-aa2nn4</i>	

### Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

## route-target export

```
{ route-target export { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target export {
<ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } }
```

### Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
export	Export Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	
<i>ext-comm-rt-aa2nn4</i>	

### Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6



# route-target import

```
{ route-target import { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target import { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } }
```

## Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
import	Import Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	
<i>ext-comm-rt-aa2nn4</i>	

## Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

# route delete dampen interval

[no] route delete dampen interval <time>

## Syntax Description

no	(Optional) Negate a command or set its defaults
route	Display routing information
delete	Dampen route delete update to hardware
dampen	Dampen update to hardware
interval	Dampen interval
<i>time</i>	Dampen interval in seconds

## Command Mode

- /exec/configure

# router-id

[no] router-id <router-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
router-id	Specify the IP address to use as router-id
<i>router-id</i>	Manually configured router identifier

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# router-id

{ { router-id <id> } | { no router-id [ <id> ] } }

## Syntax Description

no	Negate a command or set its defaults
router-id	Set OSPFv3 process router-id
<i>id</i>	Router ID Value

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

# router-id

```
{ { [ eigrp ] router-id <id> } | { no [ eigrp ] router-id [ <id> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
router-id	router-id for this EIGRP process
<i>id</i>	EIGRP Router-ID in IP address format

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# router-id

{ { router-id <id> } | { no router-id [ <id> ] } }

## Syntax Description

no	Negate a command or set its defaults
router-id	Set OSPF process router-id
<i>id</i>	Router ID Value

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# router-id

router-id [ vrf { <vrf-name> | <vrf-known-name> } ] <interface> [ force ] | no router-id [ { vrf { <vrf-name> | <vrf-known-name> } | <interface> [ force ] } ]

## Syntax Description

no	Negate a command or set its defaults
router-id	Select interface to prefer for LDP identifier address
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	
force	(Optional) Forcibly change the LDP router id

## Command Mode

- /exec/configure/ldp

# router bgp

[no] router bgp <as>

## Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
bgp	Border Gateway Protocol (BGP)
as	Autonomous

## Command Mode

- /exec/configure



# router eigrp

[no] router eigrp <eigrp-ptag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>eigrp-ptag</i>	Process tag

## Command Mode

- /exec/configure

# router isis

[no] router isis <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Routing process tag

## Command Mode

- /exec/configure

# router ospf

[no] router ospf <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
ospf	Open Shortest Path First (OSPF)
<i>tag</i>	Process tag

## Command Mode

- /exec/configure

# router ospfv3

[no] router ospfv3 <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
ospfv3	Open Shortest Path First (OSPF) (Version 3)
<i>tag</i>	Process tag

## Command Mode

- /exec/configure

# router rip

[no] router rip <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
rip	Routing Information Protocol (RIP)
<i>tag</i>	Process ID

## Command Mode

- /exec/configure

# routing-context vrf

```
routing-context vrf <vrf-known-name>
```

## Syntax Description

routing-context	Set the routing context
vrf	The new routing-context VRF
<i>vrf-known-name</i>	

## Command Mode

- /exec

# routing ipv4 unicast nexthop-sorting

[no] routing ipv4 unicast nexthop-sorting

## Syntax Description

no	(Optional) Negate a command or set its defaults
routing	Routing events
ipv4	IP events
unicast	unicast
nexthop-sorting	Sort nhs while storing

## Command Mode

- /exec/configure

# routing ipv6 unicast nexthop-sorting

[no] routing ipv6 unicast nexthop-sorting

## Syntax Description

no	(Optional) Negate a command or set its defaults
routing	Routing events
ipv6	Configure IPv6 features
unicast	unicast
nexthop-sorting	Sort nhs while storing

## Command Mode

- /exec/configure



# rsakeypair

[no] rsakeypair <s0> [ <i0> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
rsakeypair	Configure trustpoint rsa key-pair details
s0	key-pair label
i0	(Optional) key-pair size

## Command Mode

- /exec/configure/trustpoint

## rtr

[no] { rtr | etr | eid } { <locator> | <locator6> } [ strict | probe ] + <seq>

**Syntax Description**

no	(Optional) Negate a command or set its defaults
rtr	Configure RTR in ELP ordered list
etr	Configure ETR in ELP ordered list
eid	Configure EID in ELP ordered list
<i>locator</i>	IPv4 locator for RTR/ETR or EID
strict	(Optional) ELP hop must be used in Explicit Locator Path
probe	(Optional) RLOC-probe next-hop in ELP
<i>seq</i>	Sequence to insert or delete RTR/ETR/EID ELP entry

**Command Mode**

- /exec/configure/lisp-elp /exec/configure/vrf/lisp-elp

# rule

```
rule <number> { <action> } { { <permission> [ <featuretype> <name> ] } | { command <cmd_line> } } | no
rule <number>
```

## Syntax Description

no	Negate a command or set its defaults
rule	Enter the rule number
<i>number</i>	Enter the rule number
<i>action</i>	Action
<i>permission</i>	Permission
command	Command line
<i>cmd_line</i>	Enter the command (use space+' ' for command separator) e.g. config t role *
<i>featuretype</i>	(Optional) Feature type
<i>name</i>	(Optional) Enter the access entity name

## Command Mode

- /exec/configure/role

# rule

rule <number> <action> <permission> oid <snmp\_oid> | no rule <number>

## Syntax Description

no	Negate a command or set its defaults
rule	Enter the rule number
<i>number</i>	Enter the rule number
<i>action</i>	Action
<i>permission</i>	Permission
oid	SNMP oid (up to 32 elements)
<i>snmp_oid</i>	Enter snmp oid instance name

## Command Mode

- /exec/configure/role

# run-script

run-script <uri0>

## Syntax Description

run-script	Run shell scripts
<i>uri0</i>	Enter script file name

## Command Mode

- /exec

# run-show-tech-script

run-show-tech-script <s0>

## Syntax Description

run-show-tech-script	Run show tech script
<i>s0</i>	fname

## Command Mode

- /exec

# run2 guestshell

```
run2 guestshell [ { <cmd_args> } ]
```

## Syntax Description

run2	execute/run program!!!
guestshell	The guest shell Linux-bash
<i>cmd_args</i>	(Optional) The command to execute

## Command Mode

- /exec

# run bash

run bash [ <cmd> ]

## Syntax Description

run	execute/run program
bash	linux-bash
<i>cmd</i>	(Optional) the command to execute

## Command Mode

- /exec





## S Commands

---

- [sampler](#), on page 2527
- [sap hash-algorithm HMAC-SHA-1](#), on page 2528
- [sap modelist](#), on page 2529
- [sap pmk](#), on page 2530
- [save](#), on page 2531
- [scale-factor](#), on page 2532
- [scheduler aaa-authentication](#), on page 2533
- [scheduler enable](#), on page 2534
- [scheduler job name](#), on page 2535
- [scheduler logfile size](#), on page 2536
- [scheduler schedule name](#), on page 2537
- [scheduler transport email](#), on page 2538
- [scp](#), on page 2539
- [scp](#), on page 2540
- [scripting tcl init](#), on page 2541
- [scripting tcl recursion-limit](#), on page 2542
- [search](#), on page 2543
- [section](#), on page 2544
- [secure-handoff](#), on page 2545
- [sed](#), on page 2546
- [send-community](#), on page 2547
- [send-community](#), on page 2548
- [send-lifetime](#), on page 2549
- [send](#), on page 2551
- [send session](#), on page 2552
- [server](#), on page 2553
- [server](#), on page 2554
- [server](#), on page 2555
- [server protocol ldap](#), on page 2556
- [server protocol radius group](#), on page 2557
- [server protocol xmpp](#), on page 2558
- [service-policy](#), on page 2559
- [service-policy](#), on page 2560

- [service-policy](#), on page 2561
- [service-policy input](#), on page 2562
- [service-policy type network-qos](#), on page 2563
- [service-policy type psp](#), on page 2564
- [service-policy type qos](#), on page 2565
- [service-policy type queuing](#), on page 2566
- [service-policy type queuing](#), on page 2567
- [service-policy type queuing](#), on page 2568
- [service dhcp](#), on page 2569
- [service set](#), on page 2570
- [service unsupported-transceiver](#), on page 2571
- [service vlan-group](#), on page 2572
- [session-limit](#), on page 2573
- [session domain-lookup](#), on page 2574
- [session key-required](#), on page 2575
- [session max](#), on page 2576
- [session max](#), on page 2577
- [session protection](#), on page 2578
- [set-attached-bit](#), on page 2579
- [set-overload-bit](#), on page 2580
- [set](#), on page 2581
- [set \(elamns/sel5\)](#), on page 2582
- [set \(elamns/sel5\)](#), on page 2584
- [set \(elamns/sel6\)](#), on page 2586
- [set \(sel7\)](#), on page 2588
- [set \(policy-map/class\)](#), on page 2589
- [set \(plc/class\)](#), on page 2590
- [set \(pmap/class\)](#), on page 2593
- [set \(class\)](#), on page 2594
- [set](#), on page 2595
- [set as-path](#), on page 2597
- [set comm-list](#), on page 2598
- [set community](#), on page 2599
- [set cos](#), on page 2600
- [set cos](#), on page 2601
- [set dampening](#), on page 2602
- [set distance](#), on page 2603
- [set extcomm-list](#), on page 2604
- [set extcommunity](#), on page 2605
- [set extcommunity 4byteas-generic](#), on page 2606
- [set extcommunity cost](#), on page 2607
- [set extcommunity rt](#), on page 2608
- [set extension-key](#), on page 2609
- [set forwarding-address](#), on page 2610
- [set inner ipv4](#), on page 2611
- [set inner l2](#), on page 2613

- [set inner l2 hg2](#), on page 2615
- [set inner l4](#), on page 2617
- [set interface](#), on page 2618
- [set interval find-new-host](#), on page 2619
- [set interval pending-task-polling](#), on page 2620
- [set interval sync-full-info](#), on page 2621
- [set ip address prefix-list](#), on page 2622
- [set ip default next-hop verify-availability](#), on page 2623
- [set ip next-hop](#), on page 2624
- [set ip next-hop peer-address](#), on page 2625
- [set ip next-hop unchanged](#), on page 2626
- [set ip next-hop verify-availability](#), on page 2627
- [set ip precedence](#), on page 2628
- [set ipv6 address prefix-list](#), on page 2629
- [set ipv6 default next-hop verify-availability](#), on page 2630
- [set ipv6 next-hop](#), on page 2631
- [set ipv6 next-hop peer-address](#), on page 2632
- [set ipv6 next-hop unchanged](#), on page 2633
- [set ipv6 next-hop verify-availability](#), on page 2634
- [set ipv6 precedence](#), on page 2635
- [set level](#), on page 2636
- [set local-preference](#), on page 2637
- [set metric-type](#), on page 2638
- [set metric](#), on page 2639
- [set mpls-exp-topmost cos table exp-cos-map](#), on page 2640
- [set nssa-only](#), on page 2641
- [set origin](#), on page 2642
- [set origin egp](#), on page 2643
- [set outer ipv4](#), on page 2644
- [set outer l2](#), on page 2646
- [set outer l2 hg2](#), on page 2648
- [set outer l4](#), on page 2650
- [set path-selection all advertise](#), on page 2651
- [set pktmgr pds yield-threshold](#), on page 2652
- [set pktrw](#), on page 2653
- [set sideband](#), on page 2659
- [set tag](#), on page 2662
- [set weight](#), on page 2663
- [setup](#), on page 2664
- [sflow](#), on page 2665
- [sflow](#), on page 2666
- [sflow cpu-usage limit](#), on page 2667
- [sflow data-source interface](#), on page 2668
- [sflow data-source interface](#), on page 2669
- [sflow extended switch](#), on page 2670
- [shape](#), on page 2671

- [shared-secret](#), on page 2673
- [shutdown](#), on page 2674
- [shutdown \(expl-path\)](#), on page 2675
- [shutdown \(if-mgmt-ether\)](#), on page 2676
- [shutdown](#), on page 2677
- [shutdown force](#), on page 2678
- [shutdown \(if-nve\)](#), on page 2679
- [shutdown \(if-loopback\)](#), on page 2680
- [shutdown](#), on page 2681
- [shutdown](#), on page 2682
- [shutdown \(router-bgp\)](#), on page 2683
- [shutdown](#), on page 2684
- [shutdown \(vrf\)](#), on page 2685
- [shutdown \(router-bgp-neighbor-sess\)](#), on page 2686
- [shutdown \(router-eigrp-af-common\)](#), on page 2687
- [shutdown \(if-vlan-common\)](#), on page 2688
- [shutdown \(vrf\)](#), on page 2689
- [shutdown \(anycast\)](#), on page 2690
- [shutdown \(router-rip-vrf\)](#), on page 2691
- [shutdown \(if-any-tunnel\)](#), on page 2692
- [shutdown \(ldp\)](#), on page 2693
- [shutdown \(itd-inout\)](#), on page 2694
- [shutdown \(vrrpv3\)](#), on page 2695
- [shutdown \(vrrpv3\)](#), on page 2696
- [shutdown \(vrrs\)](#), on page 2697
- [shutdown \(cbts-member\)](#), on page 2698
- [shutdown \(vrrp\)](#), on page 2699
- [shutdown \(router-isis-vrf-common\)](#), on page 2700
- [shutdown force](#), on page 2701
- [signalling advertise explicit-null](#), on page 2702
- [signalling client batch-time](#), on page 2703
- [signalling hello graceful-restart](#), on page 2704
- [signalling hello graceful-restart refresh interval](#), on page 2705
- [signalling hello graceful-restart refresh misses](#), on page 2706
- [signalling hello graceful-restart send recovery-time](#), on page 2707
- [signalling hello graceful-restart send restart-time](#), on page 2708
- [signalling hello reroute](#), on page 2709
- [signalling initial-retransmit-delay](#), on page 2710
- [signalling patherr state-removal](#), on page 2711
- [signalling rate-limit](#), on page 2712
- [signalling refresh interval](#), on page 2713
- [signalling refresh misses](#), on page 2714
- [signalling refresh pace](#), on page 2715
- [signalling refresh reduction](#), on page 2716
- [signalling refresh reduction ack-delay](#), on page 2717
- [signalling refresh reduction bundle-max-size](#), on page 2718

- signalling refresh reduction bundle-transmit-time, on page 2719
- signalling refresh reduction rapid-retransmit, on page 2720
- signing level, on page 2721
- site-id, on page 2722
- site-of-origin, on page 2723
- sleep, on page 2724
- sleep instance, on page 2725
- slot, on page 2726
- smtp-host, on page 2727
- snapshot create, on page 2728
- snapshot delete, on page 2729
- snapshot delete ALL, on page 2730
- snapshot section add, on page 2731
- snapshot section delete, on page 2732
- snmp-server aaa-user cache-timeout, on page 2733
- snmp-server community, on page 2734
- snmp-server community, on page 2735
- snmp-server contact, on page 2736
- snmp-server context, on page 2737
- snmp-server context, on page 2738
- snmp-server counter cache-enable, on page 2739
- snmp-server counter cache enable, on page 2740
- snmp-server counter cache timeout, on page 2741
- snmp-server enable traps, on page 2742
- snmp-server enable traps bgp, on page 2743
- snmp-server enable traps bgp cbgp2, on page 2744
- snmp-server enable traps bgp cbgp2 threshold prefix, on page 2745
- snmp-server enable traps bgp threshold prefix, on page 2746
- snmp-server enable traps eigrp, on page 2747
- snmp-server enable traps msdp, on page 2748
- snmp-server enable traps ospf, on page 2749
- snmp-server enable traps ospf, on page 2750
- snmp-server enable traps ospfv3, on page 2751
- snmp-server enable traps ospfv3, on page 2752
- snmp-server enable traps storm-control trap-rate, on page 2753
- snmp-server force-unload-feature, on page 2754
- snmp-server globalEnforcePriv, on page 2755
- snmp-server host, on page 2756
- snmp-server host, on page 2757
- snmp-server host, on page 2758
- snmp-server host, on page 2759
- snmp-server host, on page 2760
- snmp-server load-cond-feature, on page 2761
- snmp-server load-mib, on page 2762
- snmp-server location, on page 2763
- snmp-server mib community-map, on page 2764

- [snmp-server protocol enable](#), on page 2765
- [snmp-server source-interface](#), on page 2766
- [snmp-server system-shutdown](#), on page 2767
- [snmp-server tcp-session](#), on page 2768
- [snmp-server user](#), on page 2769
- [snmp-trap](#), on page 2770
- [snmp ifmib ifalias long](#), on page 2771
- [snmp trap link-status](#), on page 2772
- [snmp trap link-status](#), on page 2773
- [snmp trap link-status](#), on page 2774
- [snmp trap link-status](#), on page 2775
- [snmp trap link-status](#), on page 2776
- [snmp trap link-status](#), on page 2777
- [sockets local-port-range](#), on page 2778
- [soft-reconfiguration inbound](#), on page 2779
- [soft-reconfiguration inbound](#), on page 2780
- [soo](#), on page 2781
- [sort](#), on page 2782
- [source-group](#), on page 2783
- [source-interface](#), on page 2784
- [source-interface](#), on page 2785
- [source-interface](#), on page 2786
- [source](#), on page 2787
- [source](#), on page 2788
- [source](#), on page 2789
- [source](#), on page 2790
- [source copy-sys](#), on page 2791
- [spanning-tree](#), on page 2792
- [spanning-tree](#), on page 2793
- [spanning-tree](#), on page 2794
- [spanning-tree](#), on page 2795
- [spanning-tree](#), on page 2796
- [spanning-tree](#), on page 2797
- [spanning-tree](#), on page 2798
- [spanning-tree](#), on page 2799
- [spanning-tree bpdudfilter](#), on page 2800
- [spanning-tree bpduguard](#), on page 2801
- [spanning-tree bridge-domain](#), on page 2802
- [spanning-tree bridge assurance](#), on page 2803
- [spanning-tree fcoe](#), on page 2804
- [spanning-tree guard](#), on page 2805
- [spanning-tree lc-issu](#), on page 2806
- [spanning-tree lc-issu](#), on page 2807
- [spanning-tree link-type](#), on page 2808
- [spanning-tree loopguard default](#), on page 2809
- [spanning-tree mode](#), on page 2810

- [spanning-tree mst](#), on page 2811
- [spanning-tree mst priority](#), on page 2812
- [spanning-tree mst port-priority](#), on page 2813
- [spanning-tree mst cost](#), on page 2814
- [spanning-tree mst cost auto](#), on page 2815
- [spanning-tree mst configuration](#), on page 2816
- [spanning-tree mst configuration](#), on page 2817
- [spanning-tree mst forward-time](#), on page 2818
- [spanning-tree mst hello-time](#), on page 2819
- [spanning-tree mst max-age](#), on page 2820
- [spanning-tree mst max-hops](#), on page 2821
- [spanning-tree mst pre-standard](#), on page 2822
- [spanning-tree mst simulate pvst](#), on page 2823
- [spanning-tree mst simulate pvst global](#), on page 2824
- [spanning-tree pathcost method](#), on page 2825
- [spanning-tree port type](#), on page 2826
- [spanning-tree port type edge bpdudfilter default](#), on page 2827
- [spanning-tree port type edge bpduguard default](#), on page 2828
- [spanning-tree port type edge default](#), on page 2829
- [spanning-tree port type edge trunk](#), on page 2830
- [spanning-tree port type network default](#), on page 2831
- [spanning-tree portfast](#), on page 2832
- [spanning-tree portfast bpdudfilter default](#), on page 2833
- [spanning-tree portfast bpduguard default](#), on page 2834
- [spanning-tree portfast default](#), on page 2835
- [spanning-tree pseudo-information](#), on page 2836
- [spanning-tree vlan](#), on page 2837
- [speed-group](#), on page 2838
- [speed](#), on page 2839
- [speed](#), on page 2840
- [speed](#), on page 2841
- [speed auto](#), on page 2842
- [speed auto 100](#), on page 2843
- [speed auto 100 1000](#), on page 2844
- [spf-interval](#), on page 2845
- [spf-interval](#), on page 2846
- [spf mode incremental](#), on page 2847
- [spf mode incremental](#), on page 2848
- [sprom recover backplane](#), on page 2849
- [ssh](#), on page 2850
- [ssh6](#), on page 2851
- [ssh key](#), on page 2852
- [ssh login-attempts](#), on page 2853
- [ssh server enable](#), on page 2854
- [standby](#), on page 2855
- [start](#), on page 2856

- start, on page 2857
- start, on page 2858
- start, on page 2859
- start, on page 2860
- start, on page 2861
- start, on page 2862
- state enabled, on page 2863
- stateful-ha, on page 2864
- statistics, on page 2865
- statistics, on page 2866
- statistics, on page 2867
- statistics per-entry, on page 2868
- statistics per-entry, on page 2869
- statistics per-entry, on page 2870
- status, on page 2871
- status, on page 2872
- status, on page 2873
- status, on page 2874
- status, on page 2875
- status, on page 2876
- status, on page 2877
- stopbits, on page 2878
- stopbits, on page 2879
- storm-control, on page 2880
- streetaddress, on page 2881
- stub, on page 2882
- summary-address, on page 2883
- summary-address, on page 2884
- summary-address, on page 2885
- summary-address, on page 2886
- suppress-arp KEYWORD no Negate a command or set its defaults KEYWORD suppress-arp Enable ARP suppression dynamic \$hmm, on page 2887
- suppress-fib-pending, on page 2888
- suppress-fib-pending, on page 2889
- suppress-inactive, on page 2890
- suppress-inactive, on page 2891
- switch-id, on page 2892
- switch-priority, on page 2893
- switch-scope controller l2-vxlan, on page 2894
- switchback, on page 2895
- switching-mode fabric-speed 40g, on page 2896
- switching-mode store-forward, on page 2897
- switchport, on page 2898
- switchport, on page 2899
- switchport autostate exclude, on page 2900
- switchport block, on page 2901



- [switchport dot1q ether-type](#), on page 2902
- [switchport dot1q ether-type](#), on page 2903
- [switchport host](#), on page 2904
- [switchport isolated](#), on page 2905
- [switchport mode](#), on page 2906
- [switchport mode](#), on page 2907
- [switchport mode fabricpath](#), on page 2908
- [switchport mode private-vlan](#), on page 2909
- [switchport mode private-vlan trunk](#), on page 2910
- [switchport port-security](#), on page 2911
- [switchport port-security aging time](#), on page 2912
- [switchport port-security aging type](#), on page 2913
- [switchport port-security mac-address](#), on page 2914
- [switchport port-security mac-address sticky](#), on page 2915
- [switchport port-security maximum](#), on page 2916
- [switchport port-security violation](#), on page 2917
- [switchport private-vlan association trunk](#), on page 2918
- [switchport private-vlan host-association](#), on page 2919
- [switchport private-vlan mapping](#), on page 2920
- [switchport private-vlan mapping trunk](#), on page 2921
- [switchport private-vlan trunk allowed vlan](#), on page 2922
- [switchport private-vlan trunk native vlan](#), on page 2923
- [switchto vdc](#), on page 2924
- [sync-peers destination](#), on page 2925
- [sync-snmp-password](#), on page 2926
- [sync-snmp-password](#), on page 2927
- [sync-snmp-password](#), on page 2928
- [system-mac](#), on page 2929
- [system-priority](#), on page 2930
- [system](#), on page 2931
- [system cores](#), on page 2932
- [system cores retain](#), on page 2933
- [system default interface](#), on page 2934
- [system default switchport](#), on page 2935
- [system default switchport fabricpath](#), on page 2936
- [system default switchport shutdown](#), on page 2937
- [system fabric-mode full-rate](#), on page 2938
- [system fast-reload stabilization-timer](#), on page 2939
- [system hap-reset](#), on page 2940
- [system health check bootflash](#), on page 2941
- [system heartbeat](#), on page 2942
- [system high-multicast-priority](#), on page 2943
- [system inband queuing](#), on page 2944
- [system inband queuing](#), on page 2945
- [system interface shutdown](#), on page 2946
- [system internal aclmgr global lock](#), on page 2947

- [system internal aclmgr inject](#), on page 2948
- [system internal aclmgr remove policies interface](#), on page 2949
- [system internal aclmgr vcache](#), on page 2950
- [system internal clis event-history](#), on page 2951
- [system internal npacl event-history](#), on page 2952
- [system internal policy-resync module](#), on page 2953
- [system kernel-trace](#), on page 2954
- [system kgdb](#), on page 2955
- [system memory-thresholds minor](#), on page 2956
- [system minlife](#), on page 2957
- [system mode maintenance](#), on page 2958
- [system mode maintenance on-reload reset-reason](#), on page 2959
- [system mode maintenance timeout](#), on page 2960
- [system module failure-action shutdown](#), on page 2961
- [system no hap-reset](#), on page 2962
- [system no heartbeat](#), on page 2963
- [system no kgdb](#), on page 2964
- [system no standby manual-boot](#), on page 2965
- [system no statistics](#), on page 2966
- [system no watchdog](#), on page 2967
- [system no watchdog kgdb](#), on page 2968
- [system nve ipmc global index-size](#), on page 2969
- [system offline](#), on page 2970
- [system pss shrink](#), on page 2971
- [system qos](#), on page 2972
- [system release mod-lock uuid](#), on page 2973
- [system restart vdc](#), on page 2974
- [system routing unknown-unicast-flood](#), on page 2975
- [system standby manual-boot](#), on page 2976
- [system standby reload vdc](#), on page 2977
- [system startup-config init](#), on page 2978
- [system startup-config kill config-update](#), on page 2979
- [system startup-config unlock](#), on page 2980
- [system statistics](#), on page 2981
- [system switchover](#), on page 2982
- [system switchover force](#), on page 2983
- [system swover-timeout-reset](#), on page 2984
- [system trace](#), on page 2985
- [system urpf disable](#), on page 2986
- [system vlan](#), on page 2987
- [system watchdog](#), on page 2988

# sampler

[no] sampler <samplername>

## Syntax Description

sampler	Define a Sampler
<i>samplername</i>	Name of sampler

## Command Mode

- /exec/configure

## sap hash-algorithm HMAC-SHA-1

```
{ [ no ] sap hash-algorithm HMAC-SHA-1 } | { sap hash-algorithm HMAC-MD5 }
```

### Syntax Description

sap	Specify preferred SAP negotiation parameters
hash-algorithm	Hashing Algorithm to use during SAP protocol
HMAC-SHA-1	use HMAC-SHA-1 for hashing (default is HMAC-MD5)
HMAC-MD5	use HMAC-MD5 for hashing

### Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

# sap modelist

[no] sap modelist <mode\_opt>

## Syntax Description

sap	Specify preferred SAP negotiation parameters
modelist	encryption mode
<i>mode_opt</i>	modelist options

## Command Mode

- /exec/configure/cts-dot1x

# sap pmk

```
sap pmk <pmk> [ left-zero-padded ] [ modelist <mode_opt> ] | sap pmk use-dot1x [ modelist <mode_opt> ]
| no sap
```

## Syntax Description

sap	Specify preferred SAP negotiation parameters
pmk	pairwise master key
<i>pmk</i>	32 byte value specified as a string
left-zero-padded	(Optional) Pad with zeros on the left if PMK length is less than 32 bytes
modelist	(Optional) encryption mode
<i>mode_opt</i>	(Optional) modelist options
<i>modelist</i>	(Optional) <mode_opt>
use-dot1x	Use pmk generated after dot1x authentication. Use dot1x commands to configure dot1x on this port

## Command Mode

- /exec/configure/cts-manual

# save

save <uri0>

## Syntax Description

save	Save the current configuration session to uri
<i>uri0</i>	Enter the complete uri where the session is to be stored

## Command Mode

- /exec/configure

# scale-factor

[no] scale-factor <sf-value> module <module-number>

## Syntax Description

no	(Optional) Negate a command or set its defaults
scale-factor	Scale factor
<i>sf-value</i>	Specify scale factor value from 0.10 to 2.00
module	Module
<i>module-number</i>	specify module number

## Command Mode

- /exec/configure/ctrl-plane



## scheduler aaa-authentication

```
{ scheduler aaa-authentication { password { 0 <s0> | 7 <s1> | <s2> } | username <s3> password { 01 <s4> | 71 <s5> | <s6> } } | no scheduler aaa-authentication { password [ { 0 <s0> | 7 <s1> | <s2> } ] | username <s3> password [ { 01 <s4> | 71 <s5> | <s6> } ] } }
```

### Syntax Description

no	Negate a command or set its defaults
scheduler	Config commands for scheduler
aaa-authentication	Password for AAA authentication(of logged in user)
password	Specify the password of logged in user(for AAA authentication)
0	Password (clear text) of logged in user
s0	password (clear text) of logged in user
7	Encrypted password of logged in user
s1	Encrypted password (for AAA authentication)
s2	Password (clear text) of logged in user
username	logged in user name
s3	user name (for AAA authentication)
password	Specify the password of logged in user(for AAA authentication)
01	Password (clear text) of logged in user
s4	password (clear text) of logged in user
71	Encrypted password of logged in user
s5	Encrypted password (for AAA authentication)
s6	Password (clear text) of logged in user

### Command Mode

- /exec/configure

# scheduler enable

[no] scheduler enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
scheduler	Config commands for scheduler
enable	Command to enable/disable features

## Command Mode

- /exec/configure

# scheduler job name

[no] scheduler job name <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
scheduler	Config commands for scheduler
job	Define a job
name	Specify a name for the job
s0	Name of the job

## Command Mode

- /exec/configure

# scheduler logfile size

{ scheduler logfile size <i0> | no scheduler logfile size [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
scheduler	Config commands for scheduler
logfile	Scheduler log file configuration
size	Specify the log file size
<i>i0</i>	Size of the file in KB

## Command Mode

- /exec/configure

# scheduler schedule name

[no] scheduler schedule name <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
scheduler	Config commands for scheduler
schedule	Define a schedule
name	Specify a name for the schedule
s0	Name of the schedule

## Command Mode

- /exec/configure

# scheduler transport email

```
{ scheduler transport email { from <s0> | reply-to <s1> | smtp-server <host0> [ port <i1> ] } | no scheduler transport email { from | reply-to | smtp-server } }
```

## Syntax Description

no	Negate a command or set its defaults
scheduler	Config commands for scheduler
transport	Configure transport related configuration
email	Configure email transport related configuration
from	Configure from email address
<i>s0</i>	Provide from email address, example: SJ-9500-1@xyz.com
reply-to	Configure replyto email address
<i>s1</i>	Provide reply-to email address, example: admin@xyz.com
smtp-server	Configure SMTP server address
<i>host0</i>	SMTP server(DNS name or IPv4 or IPv6 address)
port	(Optional) Configure SMTP server port (default:25)
<i>i1</i>	(Optional) SMTP server port

## Command Mode

- /exec/configure

# scp

scp [ <recurse> ] <from> [ <hyphen> ] <src-path>

## Syntax Description

scp	Launch scp subsystem
<i>recurse</i>	(Optional) -r recurse
<i>from</i>	-f scp from
<i>hyphen</i>	(Optional) --
<i>src-path</i>	from URL

## Command Mode

- /exec

# scp

scp [ <recurse> ] [ <directory> ] [ <verbose> ] <to> [ <hyphen> ] <dst-path>

## Syntax Description

scp	Launch scp subsystem
<i>recurse</i>	(Optional) -r recurse
<i>directory</i>	(Optional) -d directory
<i>verbose</i>	(Optional) -v verbose
<i>to</i>	-t scp to
<i>hyphen</i>	(Optional) --
<i>dst-path</i>	to URL

## Command Mode

- /exec



# scripting tcl init

scripting tcl init <uri0> | no scripting tcl init

## Syntax Description

no	Negate a command or set its defaults
scripting	Configure scripting parameters
tcl	Specify scripting parameter for tcl
init	Specify init parameters
<i>uri0</i>	Tcl init script name

## Command Mode

- /exec

# scripting tcl recursion-limit

scripting tcl recursion-limit <limit> | no scripting tcl recursion-limit

## Syntax Description

no	Negate a command or set its defaults
scripting	Configure scripting parameters
tcl	Specify scripting parameter for tcl
recursion-limit	Specify recursion-limit
<i>limit</i>	Specify limit

## Command Mode

- /exec

# search

search <failure\_desc>

## Syntax Description

search	Search for information
<i>failure_desc</i>	Brief problem description

## Command Mode

- /exec

# section

section <pattern>

## Syntax Description

	Pipe command output to filter
section	show lines that include the pattern as well as the subsequent lines that are more indented than matching line
<i>pattern</i>	the pattern (regular expression) to match

## Command Mode

- /output

# secure-handoff

{ [ no ] secure-handoff }

## Syntax Description

no	(Optional) Negate a command or set its defaults
secure-handoff	Confirm dynamic-eid discovery by probing for remote host

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

# sed

sed [ -n ] + <expr>

## Syntax Description

	Pipe command output to filter
sed	Stream Editor
-n	(Optional) suppress automatic printing of pattern space
<i>expr</i>	Edition command (script)

## Command Mode

- /output

# send-community

[ no | default ] send-community [ both | extended | standard ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
send-community	Send Community attribute to this neighbor
both	(Optional) Send Standard and Extended Community attributes
extended	(Optional) Send Extended Community attribute
standard	(Optional) Send Standard Community attribute

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

# send-community

[ no | default ] send-community [ both | extended | standard ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
send-community	Send Community attribute to this neighbor
both	(Optional) Send Standard and Extended Community attributes
extended	(Optional) Send Extended Community attribute
standard	(Optional) Send Standard Community attribute

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn



## send-lifetime

```
{ { send-lifetime [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <sday> <year> { duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } } | { no send-lifetime [ [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <sday> <year> { duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } ] } }
```

### Syntax Description

no	Negate a command or set its defaults
send-lifetime	Set send lifetime of key
local	(Optional) Specify time in local timezone
<i>stime</i>	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	HH:MM:SS Time to end <0-23>:<0-59>:<0-59>
month_a	
month_b	
month_c	
month_d	
month_e	
month_f	
month_g	
month_h	
month_i	
month_j	
month_k	
month_l	
<i>sday</i>	Day of the month to start
<i>eday</i>	Day of the month to end
<i>syear</i>	Year to start
<i>eyear</i>	Year to end
duration	Set key lifetime duration

<i>dsec</i>	Duration in seconds
infinite	Never Expires

**Command Mode**

- /exec/configure/keychain-key

# send

send <line>

## Syntax Description

send	Send message to open sessions
<i>line</i>	Send message (a line) to all open sessions

## Command Mode

- /exec

# send session

send session <s0> <line>

## Syntax Description

send	Send message to open sessions
session	Send message to specific session
<i>s0</i>	Specify pts/tty device type
<i>line</i>	Enter a one line message

## Command Mode

- /exec

# server

[no] server <hostipname>

## Syntax Description

no	(Optional) Negate a command or set its defaults
server	RADIUS server name or IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name

## Command Mode

- /exec/configure/radius

# server

[no] server <host0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
server	LDAP server name
<i>host0</i>	LDAP server name

## Command Mode

- /exec/configure/ldap

# server

[no] server { <hostname> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
server	TACACS+ server name or IP address
<i>hostname</i>	IPV4/IPV6 address or DNS name

## Command Mode

- /exec/configure/tacacs+

## server protocol ldap

```
[no] server protocol ldap { ip <ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ enable-ssl ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
server	Configure database server
protocol	Configure database protocol
ldap	Use LDAP
ip	IP address of server
<i>ipaddr</i>	Enter IP address of server
host	Hostname of server
<i>hostname</i>	Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
enable-ssl	(Optional) LDAP server enable ssl

### Command Mode

- /exec/configure/fabric-db



## server protocol radius group

[no] server protocol radius group <groupname>

### Syntax Description

no	(Optional) Negate a command or set its defaults
server	Configure database server
protocol	Configure database protocol
radius	Use RADIUS
group	AAA group
<i>groupname</i>	Enter AAA group name of servers

### Command Mode

- /exec/configure/fabric-db

## server protocol xmpp

```
[no] server protocol xmpp { ip <ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
server	Configure database server
protocol	Configure database protocol
xmpp	Use XMPP
ip	IP address of server
<i>ipaddr</i>	Enter IP address of server
host	Hostname of server
<i>hostname</i>	Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

### Command Mode

- /exec/configure/fabric-db

# service-policy

[no] service-policy [ type qos ] <inp-or-out> <pmap-name-qos> [ no-stats ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	(Optional) Specify the type of this policy
qos	(Optional) Qos policy
<i>inp-or-out</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command
no-stats	(Optional) Disable statistics for this policy

## Command Mode

- /exec/configure/if-set-qos /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

## service-policy

[no] service-policy [ type qos ] <inp-or-out> <pmap-name-qos> [ no-stats ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	(Optional) Specify the type of this policy
qos	(Optional) Qos policy
<i>inp-or-out</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command
no-stats	(Optional) Disable statistics for this policy

### Command Mode

- /exec/configure/vlan

# service-policy

[no] service-policy [ type qos ] <pmap-name-qos>

## Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure hierarchial policy-map
type	(Optional) Specify the type of this policy
qos	(Optional) Qos policy
<i>pmap-name-qos</i>	Policy-map name

## Command Mode

- /exec/configure/policy-map/class

# service-policy input

[no] service-policy input <policy\_name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Attach a policy to control-plane interface
input	Input the policy name
<i>policy_name</i>	Name of the policy

## Command Mode

- /exec/configure/ctrl-plane

## service-policy type network-qos

[no] service-policy type network-qos <pmap-name-nq>

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-name-nq</i>	Policy-map name

### Command Mode

- /exec/configure/system/qos

## service-policy type psp

```
[no] service-policy type psp <inp-or-out> { <pmap-name-plc> | { handle <ppf_id> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	Specify the type of this policy
psp	PSP policy
<i>inp-or-out</i>	
<i>pmap-name-plc</i>	Policy-map name __nil__ You must create a policy-map before using this command
handle	Handle
<i>ppf_id</i>	PPF ID

### Command Mode

- /exec/configure/if-set-qos



## service-policy type qos

[no] service-policy type qos <inp-only> <pmap-name-qos>

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
qos	System-level QoS policy
<i>inp-only</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command

### Command Mode

- /exec/configure/system/qos

## service-policy type queuing

[no] service-policy type queuing <inp-or-out> <pmap-name-que> [ no-stats ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	Specify the type of this policy
queuing	Queuing policy
<i>inp-or-out</i>	
<i>pmap-name-que</i>	Policy-map name
no-stats	(Optional) Disable statistics for this policy

### Command Mode

- /exec/configure/if-set-que

## service-policy type queuing

[no] service-policy type queuing <inp-or-out> <pmap-name-que>

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
queuing	DCE Queuing policy
<i>inp-or-out</i>	
<i>pmap-name-que</i>	Policy-map name

### Command Mode

- /exec/configure/system/qos

## service-policy type queuing

[no] service-policy type queuing <pmap-name-que>

### Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Set the inner policy-map
type	Specify the type of this policy
queuing	Queuing policy
<i>pmap-name-que</i>	Policy-map name __nil__ You must create a policy-map before using this command

### Command Mode

- /exec/configure/policy-map/type/queuing/class

# service dhcp

[no] service dhcp

## Syntax Description

no	(Optional) Negate a command or set its defaults
service	Modify use of network based services
dhcp	Enable DHCP relay agent

## Command Mode

- /exec/configure

# service set

[no] service set <onep-service-set>

## Syntax Description

no	(Optional) Negate a command or set its defaults
service	ONEP service set
set	ONEP service set
<i>onep-service-set</i>	service name

## Command Mode

- /exec/configure/onep

# service unsupported-transceiver

[no] service unsupported-transceiver

## Syntax Description

no	(Optional) Negate a command or set its defaults
service	Serviceability Commands
unsupported-transceiver	Configure support for transceivers not supported by Cisco

## Command Mode

- /exec/configure

## service vlan-group

```
{ service vlan-group <grp-number> <vlan-range> } | { no service vlan-group <grp-number> [ <vlan-range> ] }
```

### Syntax Description

no	Negate a command or set its defaults
service	service module
vlan-group	vlan group
<i>grp-number</i>	group #
<i>vlan-range</i>	range of vlans

### Command Mode

- /exec/configure



# session-limit

[no] session-limit <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
session-limit	Set the max no of concurrent vsh sessions
<i>i0</i>	Max concurrent vsh sessions

## Command Mode

- /exec/configure/line

# session domain-lookup

session domain-lookup | no session domain-lookup

## Syntax Description

session	Configure session preferences
no	Negate a command or set its defaults
domain-lookup	Session

## Command Mode

- /exec

# session key-required

[no] session key-required

## Syntax Description

no	Negate a command or set its defaults
session	One Platform session
key-required	Disable session key

## Command Mode

- /exec/configure/onep

# session max

session max <onep-maxsess>

## Syntax Description

session	One Platform session
max	Maximum number of sessions
<i>onep-maxsess</i>	Number of sessions

## Command Mode

- /exec/configure/onep

# session max

[no] session max [ <onep-maxsess> ]

## Syntax Description

no	Negate a command or set its defaults
session	One Platform session
max	Maximum number of sessions
<i>onep-maxsess</i>	(Optional) Number of sessions

## Command Mode

- /exec/configure/onep

## session protection

[no] session protection [ vrf { <vrf-name> | <vrf-known-name> } ] [ for <pfx-list> ] [ duration { <secs> | infinite } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
session	Configure session parameters
protection	Configure session protection parameters
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
for	(Optional) Prefix list to specify LDP peers
<i>pfx-list</i>	(Optional) Prefix list for LDP peers
duration	(Optional) Period to sustain session protection after loss of link discovery
<i>secs</i>	(Optional) Holdup time in seconds
infinite	(Optional) Protect session forever after loss of link discovery

### Command Mode

- /exec/configure/ldp

# set-attached-bit

[no] set-attached-bit

## Syntax Description

no	(Optional) Negate a command or set its defaults
set-attached-bit	Configure L1 L2 router to set/unset attached bit in its L1 LSP

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv6

## set-overload-bit

```
[no] set-overload-bit | [ no ] set-overload-bit { always | on-startup { <secs> | [ <seconds> ] wait-for bgp <as>
} } [ suppress { [ interlevel ] [ external ] } ]
```

### Syntax Description

no	Negate a command or set its defaults
set-overload-bit	Signal other routers not to use us for transit
always	Set the overload bit unconditionally
on-startup	Set the overload bit on IS-IS startup
<i>secs</i>	Clear the overload bit after an elapsed time in seconds
wait-for	Clear the overload bit when notified by a specific protocol
bgp	Border Gateway Protocol (BGP)
<i>seconds</i>	(Optional) Clear the overload bit after an elapsed time in seconds
<i>as</i>	Autonomous system number
suppress	(Optional) Suppress route redistribution if overload bit set
interlevel	(Optional) Suppress interlevel route redistribution
external	(Optional) Suppress external route redistribution

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common



# set

set <paramname> <paramval>

## Syntax Description

set	Set the parameter value
<i>paramname</i>	Enter the name of the parameter
<i>paramval</i>	Enter the parameter value

## Command Mode

- /exec/configure/param-inst

## set (elamns/se15)

```
set { inner | outer } l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id>
| cos <cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif>
| vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid

<code>vntag_pointer</code>	(Optional) VNTAG Header Pointer Valid
<code>vntag_p</code>	(Optional) VNTAG Header Pointer Valid
<code>src_mac</code>	(Optional) Source MAC Address
<code>smac</code>	(Optional) Source MAC Address Value
<code>dst_mac</code>	(Optional) Destination MAC Address
<code>dmac</code>	(Optional) Destination MAC Address Value

**Command Mode**

- /exec/elamns/sel5

## set (elamns/se15)

```
set { inner | outer } l2 hg2 [ { hg2_vid <hg2_vlan> | hg2_ppd_type <hg2_ppd_type> | hg2_mirror <hg2_mirror>
| hg2_opcode <hg2_opcode> | hg2_dstpid <hg2_dpid> | hg2_dstmod <hg2_dmod> | hg2_srcpid <hg2_spid>
| hg2_srcmod <hg2_smod> | hg2_l3vld <hg2_l3_vld> | hg2_tc <hg2_tc> | hg2_dp <hg2_dp> | hg2_mcast
<hg2_mcast_vld> | hg2-vld <hg2_vld> | hg2-cos <hg2_cos> } ] +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched

<code>hg2_tc</code>	(Optional) High Gig2 Packet Traffic Class
<code>hg2_tc</code>	(Optional) High Gig2 Packet Traffic Class
<code>hg2_dp</code>	(Optional) High Gig2 Drop Precedence
<code>hg2_dp</code>	(Optional) High Gig2 Drop Precedence
<code>hg2_mcast</code>	(Optional) High Gig2 MultiCast Forwarding Information
<code>hg2_mcast_vld</code>	(Optional) High Gig2 Multicast Forwarding Information
<code>hg2-vld</code>	(Optional) High Gig2 Valid Information
<code>hg2_vld</code>	(Optional) High Gig2 Valid Information
<code>hg2-cos</code>	(Optional) High Gig2 CoS Information
<code>hg2_cos</code>	(Optional) High Gig2 CoS Information

**Command Mode**

- /exec/elamns/sel5

## set (elamns/set6)

```
set { inner | outer } ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> |
header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off
<fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <src_ip> | dst_ip <dst_ip> } ] +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset

<code>ttl</code>	(Optional) Time to Live
<code>ttl_val</code>	(Optional) Time to Live
<code>next-protocol</code>	(Optional) Next(L4) Protocol
<code>nproto</code>	(Optional) Next(L4) Protocol
<code>checksum</code>	(Optional) Checksum
<code>csum</code>	(Optional) Checksum
<code>src_ip</code>	(Optional) Source IP Address
<code>sip</code>	(Optional) Source IP Address
<code>dst_ip</code>	(Optional) Destination IP Address
<code>dip</code>	(Optional) Destination IP Address

**Command Mode**

- /exec/elamns/sel6

## set (sel7)

set { inner | outer } l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt\_len> | checksum <csum> | flags <flag\_val> } ] +

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l4	L4 Fields
src-port	(Optional) Source Port Information
<i>sport</i>	(Optional) Source Port
dst-port	(Optional) Destination Port Information
<i>dport</i>	(Optional) Destination Port
packet-len	(Optional) Packet Length
<i>pkt_len</i>	(Optional) Packet Length
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
flags	(Optional) L4 Flags
<i>flag_val</i>	(Optional) L4 Flags

### Command Mode

- /exec/elanms/sel7



## set (policy-map/class)

[no] set { load-sharing per-packet }

### Syntax Description

set	Set attribute
load-sharing	Load sharing across ECMP by set out-of-order bit
per-packet	per MiM packet
no	(Optional) Negate a command or set its defaults

### Command Mode

- /exec/configure/policy-map/class

## set (plc/class)

```
[no] set { { cos <cos-val> } | { eth-src-mac-addr <src-mac-addr> } | { eth-dest-mac-addr <dest-mac-addr> }
| { vlan <vlan-number> } | { ip-tos <ip-tos-value> <ip-tos-mask> } | { out-interface <iface-list> } | { dscp [
tunnel ] { <dscp-val> | <dscp-enum> } } | { precedence [ prec-tunnel ] { <prec-val> | <prec-enum> } } | {
discard-class <dis-class-val> } | { qos-group <qos-grp-val> } | { { { cos1 cos2 } | { dscp1 dscp2 } | { prec1
prec2 } | { dis-class1 dis-class2 } | { dscp3 mpls-exp-imposition } | { mpls-exp-topmost dscp4 } | {
mpls-exp-topmost1 mpls-exp-topmost2 } } } | { mpls experimental { { topmost <exp-value> } | { imposition
<exp-value-imp> } } } | action-strip-vlan | action-drop-pkt | divert-action | copy-action | action-decrement-ttl
| forward-normal | goto-pmap <pmap-table-handle> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
cos1	IEEE 802.1Q class of service
cos2	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value
eth-dest-mac-addr	Action on Layer 2 destination MAC address
eth-src-mac-addr	Action on Layer 2 source MAC address
<i>src-mac-addr</i>	Layer 2 MAC Address
<i>dest-mac-addr</i>	Layer 2 MAC Address
vlan	Set the VLAN ID
<i>vlan-number</i>	VLAN NUMBER
ip-tos	Set the IPv4 TOS
<i>ip-tos-value</i>	IPv4 TOS Value
<i>ip-tos-mask</i>	IPV4 TOS Mask
out-interface	Output to a Specified Interface
<i>iface-list</i>	Physical Interface Name and Number or List
action-strip-vlan	Perform the action STRIP-VLAN-ID
action-drop-pkt	Perform the action Drop the Packet
divert-action	Divert the packets to Controller
copy-action	Copy the packets to Controller

action-decrement-ttl	Decrement TTL on the Packet
forward-normal	Forward the packets normally
goto-pmap	Goto pmap/table
<i>pmap-table-handle</i>	Pmap-table handle
dscp	DSCP in IP(v4) and IPv6 packets
dscp1	DSCP in IP(v4) and IPv6 packets
dscp2	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>dscp-enum</i>	
precedence	Precedence in IP(v4) and IPv6 packets
prec1	Precedence in IP(v4) and IPv6 packets
prec2	Precedence in IP(v4) and IPv6 packets
prec-tunnel	(Optional) Set Precedence in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>prec-enum</i>	
discard-class	Discard class
dis-class1	Discard class
dis-class2	Discard class
<i>dis-class-val</i>	Discard class value
qos-group	Qos-group
<i>qos-grp-val</i>	Qos-group value
mpls	Set MPLS label
experimental	Set MPLS experimental label
topmost	Set MPLS topmost label
imposition	Push the label and set new one on top
<i>exp-value</i>	MPLS value
<i>exp-value-imp</i>	MPLS value
dscp3	DSCP in IP(v4) and IPv6 packets

mpls-exp-imposition	mpls-exp-imposition
mpls-exp-topmost	mpls-exp-topmost
dscp4	DSCP in IP(v4) and IPv6 packets
mpls-exp-topmost1	mpls-exp-topmost
mpls-exp-topmost2	mpls-exp-topmost

**Command Mode**

- /exec/configure/policy-map/type/plc/class

## set (pmap/class)

```
[no] set { { cos [ inner ] <cos-val> } | { dscp [ tunnel ] { <dscp-val> | <opt_set_dscp> } } | { precedence [
tunnel1 ] { <prec-val> | <opt_set_prec> } } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
inner	(Optional) Set inner 802.1Q class of service in QinQ environment
<i>cos-val</i>	802.1Q Class of Service value
dscp	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>opt_set_dscp</i>	
precedence	Precedence in IP(v4) and IPv6 packets
tunnel1	(Optional) Set DSCP in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>opt_set_prec</i>	

### Command Mode

- /exec/configure/pmap/class

## set (class)

```
[no] set { { dlb-disable } | { dscp [ tunnel ] { <dscp-val> | <dscp-enum> } } | { qos-group <qos-grp-val> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
dlb-disable	Disable Dynamic Load Balancing
dscp	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>dscp-enum</i>	
qos-group	Qos-group
<i>qos-grp-val</i>	Qos-group value

### Command Mode

- /exec/configure/policy-map/class

# set

```
[no] set { { cos <cos-val> } | { precedence [ prec-tunnel ] { <prec-val> | <prec-enum> } } | { discard-class
<dis-class-val> } | { { { cos1 cos2 } | { dscp1 dscp2 } | { prec1 prec2 } | { dis-class1 dis-class2 } | { dscp3
mpls-exp-imposition } | { mpls-exp-topmost dscp4 } | { mpls-exp-topmost1 mpls-exp-topmost2 } } table
<table-map-name> } | { mpls experimental { { topmost <exp-value> } | { imposition <exp-value-imp> } } }
}
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
cos1	IEEE 802.1Q class of service
cos2	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value
dscp1	DSCP in IP(v4) and IPv6 packets
dscp2	DSCP in IP(v4) and IPv6 packets
precedence	Precedence in IP(v4) and IPv6 packets
prec1	Precedence in IP(v4) and IPv6 packets
prec2	Precedence in IP(v4) and IPv6 packets
prec-tunnel	(Optional) Set Precedence in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>prec-enum</i>	
discard-class	Discard class
dis-class1	Discard class
dis-class2	Discard class
<i>dis-class-val</i>	Discard class value
table	Table defining mapping from input to output
<i>table-map-name</i>	Table-map name
mpls	Set MPLS label
experimental	Set MPLS experimental label
topmost	Set MPLS topmost label

imposition	Push the label and set new one on top
<i>exp-value</i>	MPLS value
<i>exp-value-imp</i>	MPLS value
dscp3	DSCP in IP(v4) and IPv6 packets
mpls-exp-imposition	mpls-exp-imposition
mpls-exp-topmost	mpls-exp-topmost
dscp4	DSCP in IP(v4) and IPv6 packets
mpls-exp-topmost1	mpls-exp-topmost
mpls-exp-topmost2	mpls-exp-topmost

**Command Mode**

- /exec/configure/policy-map/class



# set as-path

```
{ set as-path { prepend { last-as <lastas> | <as> + } | tag } } | { no set as-path { prepend [ last-as [ <lastas> ] | <as> + ] | tag } }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
as-path	Prepend string for a BGP AS-path attribute
prepend	Prepend to the AS-Path
last-as	Prepend last AS to the as-path
<i>lastas</i>	number of last-AS prepends
<i>as</i>	AS number
tag	Set the tag as an AS-path attribute
<i>as</i>	(Optional)

## Command Mode

- /exec/configure/route-map

# set comm-list

```
{ { set comm-list <name> delete } | { no set comm-list } }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
comm-list	set BGP community list (for deletion)
<i>name</i>	Community list name
delete	Delete matching communities

## Command Mode

- /exec/configure/route-map

# set community

```
{ set community { none | { additive | internet | local-AS | no-advertise | no-export | <hex_num> | <number>
| <community> } + } } | { no set community [ { none | { additive | internet | local-AS | no-advertise | no-export
| <hex_num> | <number> | <community> } + } ] }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
community	Set BGP community attribute
additive	Add to existing community
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
none	No community attribute
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>community</i>	Community number aa:nn format
<i>additive</i>	(Optional) internet

## Command Mode

- /exec/configure/route-map

# set cos

[no] set cos <cos-val>

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value

## Command Mode

- /exec/configure/policy-map/type/queuing/class

# set cos

[no] set cos <cos-val>

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value

## Command Mode

- /exec/configure/policy-map/type/uf/class

# set dampening

```
{ set dampening <half-life> <reuse> <supress> <duration> } | { no set dampening [ <half-life> <reuse> <supress> <duration> ] }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
dampening	Set BGP route flap dampening parameters
<i>half-life</i>	half-life time for the penalty
<i>reuse</i>	penalty to start reusing a route
<i>supress</i>	penalty to start suppressing a route
<i>duration</i>	Maximum duration to suppress a stable route

## Command Mode

- /exec/configure/route-map

# set distance

{ set distance <external-dist> [ <internal-dist> [ <local-dist> ] ] } | { no set distance }

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
distance	Set the Administrative distance of route
<i>external-dist</i>	Administrative distance for IGP or EBGp routes
<i>internal-dist</i>	(Optional) Administrative distance for internal routes
<i>local-dist</i>	(Optional) Administrative distance for local routes

## Command Mode

- /exec/configure/route-map

## set extcomm-list

```
{ { set extcomm-list <name> delete } | { no set extcomm-list [ <name> delete ] } }
```

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcomm-list	set BGP extcommunity list (for deletion)
<i>name</i>	Extended Community list name
delete	Delete matching extcommunities

### Command Mode

- /exec/configure/route-map



## set extcommunity

{ set extcommunity { additive | none } } | { no set extcommunity [ additive | none ] }

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
additive	Add to existing generic extcommunity
none	No extcommunity attribute

### Command Mode

- /exec/configure/route-map

## set extcommunity 4byteas-generic

```
{ set extcommunity 4byteas-generic { { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } + [ additive ] | additive | none } } | { no set extcommunity 4byteas-generic [ {
transitive <ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } + [ additive ] | additive | none
] }
```

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
4byteas-generic	Generic extended community
additive	(Optional) Add to existing generic extcommunity
none	No extcommunity generic attribute
transitive	Transitive extended community
non-transitive	Non-Transitive extended community
<i>ext-comm-gen-trans</i>	
<i>ext-comm-gen-nontrans</i>	
<i>ext-comm-gen-trans</i>	(Optional)

### Command Mode

- /exec/configure/route-map

## set extcommunity cost

```
{ set extcommunity cost { [ igp | pre-bestpath ] <comm-id> <cost-value> } + } | { no set extcommunity cost
[ [ igp | pre-bestpath ] <comm-id> <cost-value> ] + }
```

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
cost	Cost
igp	(Optional) Compare following IGP cost comparison
pre-bestpath	(Optional) Compare before all other steps in bestpath calculation
<i>comm-id</i>	Community ID
<i>cost-value</i>	Cost Community value
<i>comm-id</i>	(Optional) <cost-value>

### Command Mode

- /exec/configure/route-map

## set extcommunity rt

```
{ set extcommunity rt { { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } + [ additive ] | additive } } | {
no set extcommunity rt [ { { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } + [ additive ] | additive ] }
```

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
rt	Route-Target
additive	(Optional) Add to existing rt extcommunity
<i>ext-comm-rt-aa2nn4</i>	
<i>ext-comm-rt-aa4nn2</i>	
<i>ext-comm-rt-aa2nn4</i>	(Optional)

### Command Mode

- /exec/configure/route-map

# set extension-key

[no] set extension-key <key>

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set the extension key manually
extension-key	Set the extension key manually
<i>key</i>	Extension key

## Command Mode

- /exec/configure/vmt-conn

# set forwarding-address

[no] set forwarding-address

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
forwarding-address	Set the forwarding address

## Command Mode

- /exec/configure/route-map

## set inner ipv4

```
set inner ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <sip> | dst_ip <dip> } ] +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset
ttl	(Optional) Time to Live

<i>ttl_val</i>	(Optional) Time to Live
<i>next-protocol</i>	(Optional) Next(L4) Protocol
<i>nproto</i>	(Optional) Next(L4) Protocol
<i>checksum</i>	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
<i>src_ip</i>	(Optional) Source IP Address
<i>sip</i>	(Optional) Source IP Address
<i>dst_ip</i>	(Optional) Destination IP Address
<i>dip</i>	(Optional) Destination IP Address

**Command Mode**

- /exec/elanms/sel4



## set inner l2

```
set inner l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos
<cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> |
vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid

<i>vntag_p</i>	(Optional) VNTAG Header Pointer Valid
<i>src_mac</i>	(Optional) Source MAC Address
<i>smac</i>	(Optional) Source MAC Address Value
<i>dst_mac</i>	(Optional) Destination MAC Address
<i>dmac</i>	(Optional) Destination MAC Address Value

**Command Mode**

- /exec/elanms/se14

## set inner l2 hg2

```
set inner l2 hg2 [ { hg2_vid <hg2_vlan> | hg2_ppd_type <hg2_ppd_type> | hg2_mirror <hg2_mirror> |
hg2_opcode <hg2_opcode> | hg2_dstpid <hg2_dpid> | hg2_dstmod <hg2_dmod> | hg2_srcpid <hg2_spid>
| hg2_srcmod <hg2_smod> | hg2_l3vld <hg2_l3_vld> | hg2_tc <hg2_tc> | hg2_dp <hg2_dp> | hg2_mcast
<hg2_mcast_vld> | hg2-vld <hg2_vld> | hg2-cos <hg2_cos> } ] +
```

### Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_mcast</i>	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
<i>hg2-vld</i>	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
<i>hg2-cos</i>	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

**Command Mode**

- /exec/elanms/sel4

# set inner l4

```
set inner l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val>
} ] +
```

## Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l4	L4 Fields
src-port	(Optional) Source Port Information
<i>sport</i>	(Optional) Source Port
dst-port	(Optional) Destination Port Information
<i>dport</i>	(Optional) Destination Port
packet-len	(Optional) Packet Length
<i>pkt_len</i>	(Optional) Packet Length
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
flags	(Optional) L4 Flags
<i>flag_val</i>	(Optional) L4 Flags

## Command Mode

- /exec/elanms/setl4

# set interface

[no] set interface <iface>

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
interface	Output interface
<i>iface</i>	Interface name

## Command Mode

- /exec/configure/route-map

## set interval find-new-host

[no] set interval find-new-host <val>

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set vmtracker options
interval	Set the polling interval
find-new-host	Set interval for the new host searching timer
<i>val</i>	The host search interval value in seconds (0 to disable)

### Command Mode

- /exec/configure/vmt-conn

## set interval pending-task-polling

[no] set interval pending-task-polling <val>

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set vmtracker options
interval	Set the polling interval
pending-task-polling	Define pending-task-polling interval
<i>val</i>	The pending task polling interval value in seconds

### Command Mode

- /exec/configure/vmt-conn



## set interval sync-full-info

[no] set interval sync-full-info <val>

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set vmtracker options
interval	Set the polling interval
sync-full-info	Set interval for syncing complete info from host
<i>val</i>	The sync info interval value in seconds (0 to disable)

### Command Mode

- /exec/configure/vmt-conn

# set ip address prefix-list

[no] set ip address prefix-list <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
address	Specify IP address
prefix-list	IP prefix-list
<i>name</i>	Name of prefix list

## Command Mode

- /exec/configure/route-map

## set ip default next-hop verify-availability

[no] set ip default next-hop verify-availability { <addr> [ track <object\_id> ] } [ load-share ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
default	Set default next-hop
next-hop	Next hop address
verify-availability	Verify the reachability of the tracked object
<i>addr</i>	IP address of next hop
track	(Optional) The tracking method is track
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

### Command Mode

- /exec/configure/route-map

## set ip next-hop

```
[no] set ip next-hop [ recursive ] { load-share | <addr1> + [ load-share ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
recursive	(Optional) Use recursive lookup
next-hop	Next hop address
<i>addr1</i>	IP address of next hop
load-share	Enables load sharing

### Command Mode

- /exec/configure/route-map

# set ip next-hop peer-address

[no] set ip next-hop peer-address

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
next-hop	Next hop address
peer-address	Use peer address (for BGP only)

## Command Mode

- /exec/configure/route-map

# set ip next-hop unchanged

[no] set ip next-hop unchanged

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
next-hop	Next hop address
unchanged	Use unchanged address (for eBGP session only)

## Command Mode

- /exec/configure/route-map

## set ip next-hop verify-availability

[no] set ip next-hop verify-availability { <addr> [ track <object\_id> ] } [ load-share ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
next-hop	Next hop address
verify-availability	Verify the reachability of the tracked object
<i>addr</i>	IP address of next hop
track	(Optional) The tracking method is track
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

### Command Mode

- /exec/configure/route-map

# set ip precedence

```
{ set ip precedence { <value> | <name> } } | { no set ip precedence [ <value> | <name> ] }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
precedence	Set precedence field
<i>value</i>	Precedence value
<i>name</i>	Precedence value

## Command Mode

- /exec/configure/route-map



## set ipv6 address prefix-list

[no] set ipv6 address prefix-list <name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
address	Specify IP address
prefix-list	IPv6 prefix-list
<i>name</i>	Name of prefix list

### Command Mode

- /exec/configure/route-map

## set ipv6 default next-hop verify-availability

[no] set ipv6 default next-hop verify-availability { <addr> [ track <object\_id> ] } [ load-share ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
default	Set default next-hop
verify-availability	Verify the reachability of the tracked object
track	(Optional) The tracking method is track
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

### Command Mode

- /exec/configure/route-map

## set ipv6 next-hop

[no] set ipv6 next-hop { load-share | <addr> + [ load-share ] }

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop ipv6 address
load-share	Enables load sharing
<i>addr</i>	

### Command Mode

- /exec/configure/route-map

## set ipv6 next-hop peer-address

[no] set ipv6 next-hop peer-address

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
peer-address	Use peer address (for BGP only)

### Command Mode

- /exec/configure/route-map

# set ipv6 next-hop unchanged

[no] set ipv6 next-hop unchanged

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
unchanged	Use unchanged address (for eBGP session only)

## Command Mode

- /exec/configure/route-map

## set ipv6 next-hop verify-availability

[no] set ipv6 next-hop verify-availability { <addr> [ track <object\_id> ] } [ load-share ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
verify-availability	Verify the reachability of the tracked object
track	(Optional) The tracking method is track
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

### Command Mode

- /exec/configure/route-map

# set ipv6 precedence

{ set ipv6 precedence { <value> | <name> } } | { no set ipv6 precedence [ <value> | <name> ] }

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
precedence	Set precedence field
<i>value</i>	Precedence value
<i>name</i>	Precedence value

## Command Mode

- /exec/configure/route-map

# set level

```
{ set level { level-1 | level-1-2 | level-2 } } | { no set level [ level-1 | level-1-2 | level-2 ] }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
level	Where to import route
level-1	Import into a level-1 area
level-1-2	Import into level-1 and level-2
level-2	Import into level-2 sub-domain

## Command Mode

- /exec/configure/route-map



# set local-preference

{ set local-preference <pref> | no set local-preference [ <pref> ] }

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
local-preference	BGP local preference path attribute
<i>pref</i>	Preference value

## Command Mode

- /exec/configure/route-map

## set metric-type

{ set metric-type { external | internal | type-1 | type-2 } } | { no set metric-type [ external | internal | type-1 | type-2 ] }

### Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
metric-type	Type of metric for destination routing protocol
external	IS-IS external metric
internal	Use IGP metric as the MED for BGP
type-1	OSPF external type 1 metric
type-2	OSPF external type 2 metric

### Command Mode

- /exec/configure/route-map

# set metric

```
{ set metric <metric0> [ <metric1> <metric2> <metric3> <metric4> ] } | { no set metric [ <metric0> [ <metric1> <metric2> <metric3> <metric4> ] ] }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
metric	Set metric for destination routing protocol
<i>metric0</i>	[+/-] Metric value or Bandwidth in Kbits per second
<i>metric1</i>	(Optional) IGRP delay metric
<i>metric2</i>	(Optional) IGRP reliability metric where 255 is 100% reliable
<i>metric3</i>	(Optional) IGRP Effective bandwidth metric (Loading) 255 is 100%
<i>metric4</i>	(Optional) IGRP MTU of the path

## Command Mode

- /exec/configure/route-map

# set mpls-exp-topmost cos table exp-cos-map

[no] set mpls-exp-topmost cos table exp-cos-map

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
mpls-exp-topmost	MPLS experimental topmost
cos	IEEE 802.1Q class of service
table	Table map
exp-cos-map	Exp to cos table map name (reserved)

## Command Mode

- /exec/configure/policy-map/type/queuing/class

# set nssa-only

[no] set nssa-only

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
nssa-only	OSPF NSSA Areas

## Command Mode

- /exec/configure/route-map

# set origin

```
{ set origin { egp | igp | incomplete } } | { no set origin [ { egp | igp | incomplete } ] }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
origin	BGP origin code
egp	remote EGP
igp	local IGP
incomplete	unknown heritage

## Command Mode

- /exec/configure/route-map

# set origin egp

{ set origin egp <as> } | { no set origin egp <as> }

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
origin	BGP origin code
egp	remote EGP
as	AS number

## Command Mode

- /exec/configure/route-map

## set outer ipv4

```
set outer ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <src_ip> | dst_ip <dst_ip> } ] +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset
ttl	(Optional) Time to Live



<i>ttl_val</i>	(Optional) Time to Live
<i>next-protocol</i>	(Optional) Next(L4) Protocol
<i>nproto</i>	(Optional) Next(L4) Protocol
<i>checksum</i>	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
<i>src_ip</i>	(Optional) Source IP Address
<i>sip</i>	(Optional) Source IP Address
<i>dst_ip</i>	(Optional) Destination IP Address
<i>dip</i>	(Optional) Destination IP Address

**Command Mode**

- /exec/elanms/sel3

## set outer l2

```
set outer l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos
<cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> |
vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid

<i>vntag_p</i>	(Optional) VNTAG Header Pointer Valid
<i>src_mac</i>	(Optional) Source MAC Address
<i>smac</i>	(Optional) Source MAC Address Value
<i>dst_mac</i>	(Optional) Destination MAC Address
<i>dmac</i>	(Optional) Destination MAC Address Value

**Command Mode**

- /exec/elamns/sel3

## set outer l2 hg2

```
set outer l2 hg2 [ { hg2_vid <hg2_vlan> | hg2_ppd_type <hg2_ppd_type> | hg2_mirror <hg2_mirror> |
hg2_opcode <hg2_opcode> | hg2_dstpid <hg2_dpid> | hg2_dstmod <hg2_dmod> | hg2_srcpid <hg2_spid>
| hg2_srcmod <hg2_smod> | hg2_l3vld <hg2_l3_vld> | hg2_tc <hg2_tc> | hg2_dp <hg2_dp> | hg2_mcast
<hg2_mcast_vld> | hg2_vld <hg2_vld> | hg2-cos <hg2_cos> } ] +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_mcast</i>	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
<i>hg2-vld</i>	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
<i>hg2-cos</i>	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

**Command Mode**

- /exec/elanms/sel3

## set outer l4

```
set outer l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val>
} ] +
```

### Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l4	L4 Fields
src-port	(Optional) Source Port Information
<i>sport</i>	(Optional) Source Port
dst-port	(Optional) Destination Port Information
<i>dport</i>	(Optional) Destination Port
packet-len	(Optional) Packet Length
<i>pkt_len</i>	(Optional) Packet Length
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
flags	(Optional) L4 Flags
<i>flag_val</i>	(Optional) L4 Flags

### Command Mode

- /exec/elanms/sel3

# set path-selection all advertise

[no] set path-selection all advertise

## Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
path-selection	Path selection criteria for BGP
all	Specifies all BGP Paths
advertise	Advertise add paths to its peers if receive capability enabled

## Command Mode

- /exec/configure/route-map

# set pktmgr pds yield-threshold

set pktmgr pds yield-threshold [ <thr> ]

## Syntax Description

set	Set values
pktmgr	Set values in pktmgr
pds	Set value for pktmgr pds operation
yield-threshold	Set Value of yield-threshold
<i>thr</i>	(Optional) threshold

## Command Mode

- /exec



# set pkrw

```
set pkrw { mcast <mcast> | sup_redir <sured> | bcm_proxy <bcm_proxy> | excep_case <excep> | transit
<trans> | vpc_df <vpc_df> | src_tep_idx <src_tep> | lat_update <lat_update> | lat_idx <lat_idx> | src_class
<sclass> | ol_fb_met <ol_fb_met> | ol_fb_vpath <ol_fb_vpath> | ol_dre <ol_dre> | ol_vpath <ol_vpath> |
ol_dp <ol_dp> | ol_sp <ol_sp> | ol_e <ol_e> | ol_dl <ol_dl> | ol_lb <ol_lb> | ol_mark <ol_mark> | ol_udp_sp
<ol_udp_sp> | ol_ftag <ol_ftag> | ol_segid <ol_segid> | ol_ttl <ol_ttl> | ol_ecn <ol_ecn> | ol_dscp <ol_dscp>
| ol_de <ol_de> | ol_cos <ol_cos> | ol_mac <ol_mac> | ol_encap_idx <ol_encap> | ol_vpc <ol_vpc> | ol_idx
<ol_idx> | ttl <ttl> | dscp <dscp> | vlan1 <vlan1> | ecn_coi <ecn_coi> | ecn_cio <ecn_cio> | ttl_coi <ttl_coi>
| ttl_cio <ttl_cio> | adj_idx <adj_idx> | vntag_svif <vntag_svif> | de <de> | cos <cos> | vlan0 <vlan0> | adj_vld
<adj_vld> | uc_routed <uc_routed> | loopback <lpb> | ecn <ecn> | hg2_vid <hg2_vlan> | hg2_ppd <hg2_ppd>
| hg2_tc_sup_copy <hg2_tcscopy> | hg2_tc <hg2_tc> | hg2_lbid <hg2_lbid> | hg2_opc <hg2_opc> | hg2_dstpid
<hg2_dpidd> | hg2_srcpid <hg2_spidd> | hg2_dstmod <hg2_dmod> | hg2_srcmod <hg2_smod> | op_inner
<op_inner> | op_qtag <op_qtag> | op_vntag <op_vntag> | op_outer <op_outer> | pkt_type <pkt_type> | drop
<drp> | pkt_tstamp <pkt_tstamp> | tstamp <tstamp> | cap_tstamp <cap_tstamp> | len_info <len_info> | len_type
<len_type> | pktid <pktid> | srcid <srcid> | pktfmt1 <pktfmt1> | pktfmt0 <pktfmt0> | hg2_cos <hg2_cos> }
+
```

## Syntax Description

set	Setup Trigger
pkrw	All packet re-write fields
mcast	mcast
<i>mcast</i>	Mcast
sup_redir	Sup Redirect
<i>sured</i>	Sup Redirect
bcm_proxy	Broadcom Proxy
<i>bcm_proxy</i>	Broadcom Proxy
excep_case	Excep_case
<i>excep</i>	Excep_case
transit	Transit
<i>trans</i>	Transit
vpc_df	VPC_df
<i>vpc_df</i>	VPC_df
src_tep_idx	Src TEP Index
<i>src_tep</i>	Src TEP Index
lat_update	Lat Update

<i>lat_update</i>	Lat Update
lat_idx	Lat Index
<i>lat_idx</i>	Lat Index
src_class	Source Class
<i>sclass</i>	Source Class
ol_fb_met	Ol_fb_metric
<i>ol_fb_met</i>	Ol_fb_metric
ol_fb_vpath	Ol_fb_vpath
<i>ol_fb_vpath</i>	Ol_fb_vpath
ol_dre	Ol_dre
<i>ol_dre</i>	Ol_dre
ol_vpath	Ol_vpath
<i>ol_vpath</i>	Ol_vpath
ol_dp	Ol_dp
<i>ol_dp</i>	Ol_dp
ol_sp	Ol_sp
<i>ol_sp</i>	Ol_sp
ol_e	Ol_e
<i>ol_e</i>	Ol_e
ol_dl	Ol_dl
<i>ol_dl</i>	Ol_dl
ol_lb	Ol_lb
<i>ol_lb</i>	Ol_lb
ol_mark	Ol_mark
<i>ol_mark</i>	Ol_mark
ol_udp_sp	Ol_UDP_sp
<i>ol_udp_sp</i>	Ol UDP Source Port
ol_ftag	Ol_ftag
<i>ol_ftag</i>	Ol_ftag

ol_segid	Ol_segid
<i>ol_segid</i>	Ol_segid
ol_ttl	Ol_TTL
<i>ol_ttl</i>	Ol_TTL
ol_ecn	Ol_ecn
<i>ol_ecn</i>	Ol_ecn
ol_dscp	Ol_dscp
<i>ol_dscp</i>	Ol_dscp
ol_de	Ol_de
<i>ol_de</i>	Ol_de
ol_cos	Ol_cos
<i>ol_cos</i>	Ol_cos
ol_mac	Ol_mac
<i>ol_mac</i>	Ol_mac
ol_encap_idx	Ol_encap_idx
<i>ol_encap</i>	Ol_encap_idx
ol_vpc	Ol_VPC
<i>ol_vpc</i>	Ol_VPC
ol_idx	Ol_idx
<i>ol_idx</i>	Ol_idx
ttl	TTL
<i>ttl</i>	TTL
dscp	DSCP
<i>dscp</i>	DSCP
vlan1	Vlan1
<i>vlan1</i>	Vlan1
ecn_coi	ecn_coi
<i>ecn_coi</i>	ecn_coi
ecn_cio	ecn_cio

<i>ecn_cio</i>	ecn_cio
ttl_coi	ttl_coi
<i>ttl_coi</i>	ttl_coi
ttl_cio	ttl_cio
<i>ttl_cio</i>	ttl_cio
adj_idx	adj_idx
<i>adj_idx</i>	adj_idx
vntag_svif	vntag_svif
<i>vntag_svif</i>	vntag_svif
de	de
<i>de</i>	de
cos	cos
<i>cos</i>	cos
vlan0	vlan0
<i>vlan0</i>	vlan0
adj_vld	adj_vld
<i>adj_vld</i>	adj_vld
uc_routed	uc_routed
<i>uc_routed</i>	uc_routed
loopback	loopback
<i>lpb</i>	loopback
ecn	ecn
<i>ecn</i>	ecn
hg2_vid	High Gig2 VLAN Tag
<i>hg2_vlan</i>	High Gig2 VLAN Tag Information
hg2_cos	High Gig2 CoS Information
<i>hg2_cos</i>	High Gig2 CoS Information
hg2_ppd	High Gig2 Packet Processing Descriptor
<i>hg2_ppd</i>	High Gig2 Packet Processing Descriptor

hg2_tc_sup_copy	High Gig2 Traffic Class SUP Copy
<i>hg2_tcscopy</i>	High Gig2 Traffic Class SUP Copy
hg2_tc	High Gig2 Packet Traffic Class
<i>hg2_tc</i>	High Gig2 Packet Traffic Class
hg2_lbid	High Gig2 Packet Ibid
<i>hg2_lbid</i>	High Gig2 Packet Ibid
hg2_opc	High Gig2 Packet Type
<i>hg2_opc</i>	High Gig2 Packet Type
hg2_dstpid	High Gig2 Destination Port ID
<i>hg2_dpid</i>	High Gig2 Destination Port ID
hg2_dstmod	High Gig2 Destination Module ID
<i>hg2_dmod</i>	High Gig2 Destination Module ID
hg2_srcpid	High Gig2 Source Port ID
<i>hg2_spid</i>	High Gig2 Source Port ID
hg2_srcmod	High Gig2 Souce Module ID
<i>hg2_smod</i>	High Gig2 Souce Module ID
op_inner	Op_inner
<i>op_inner</i>	Op_inner
op_outer	Op_outer
<i>op_outer</i>	Op_outer
op_qtag	Op_qtag
<i>op_qtag</i>	Op_qtag
op_vntag	Op_vntag
<i>op_vntag</i>	Op_vntag
pkt_type	Pkt_type
<i>pkt_type</i>	Pkt_type
drop	Drop
<i>drp</i>	Drop
pkt_tstamp	Packet timestamp

<i>pkt_tstamp</i>	Packet timestamp
tstamp	Timestamp
<i>tstamp</i>	Timestamp
cap_tstamp	Capture Timestamp
<i>cap_tstamp</i>	Capture Timestamp
len_info	Len_info
<i>len_info</i>	Len_info
len_type	Len_type
<i>len_type</i>	Len_type
pktid	Pkt_id
<i>pktid</i>	Pkt_id
srcid	Src_id
<i>srcid</i>	Src_id
pktfmt1	Pktfmt1
<i>pktfmt1</i>	Pktfmt1
pktfmt0	Pktfmt0
<i>pktfmt0</i>	Pktfmt0

### Command Mode

- /exec/elanms/outsel0

## set sideband

```
set sideband { span_vec <span_vec> | bounce <bnc> | mclast <mclast> | mcastcurptr <mccurptr> | mcastcurptr_v
<mccurptr_v> | srcport <sport> | vlan <vlan> | segwgt <segwgt> | segid <segid> | seglocal <seglcl> | gbw_color
<gbw_color> | gbw_tag <gbw_tagg> | fwddrp <fwddrp> | l2fld <l2fld> | nodrp <nodrp> | ovrlyidx <ovrlyidx>
| ecncap <ecncap> | cpu <cpu> | store_fwd <stfwd> | mcast <mcast> | oclass <ocls> | iclass <icls> | odest_v
<odest_v> | odest <odest> | ovec <ovec> | span_trans <span_trans> | lbtype <lbtype> | lbena <lbena> | tdmid
<tdmid> | pktid <pktid> | srcid <srcid> | eoferror <eoferr> | eofbytes <eofby> | eof <eof> | sof <sof> } +
```

### Syntax Description

set	Setup Trigger
sideband	All sideband fields
span_vec	SPAN vector
<i>span_vec</i>	SPAN vector
bounce	Bounce
<i>bnc</i>	Bounce
mclast	Mclast
<i>mclast</i>	Mclast
mcastcurptr	Mcast cur ptr
<i>mccurptr</i>	Mcast cur ptr
mcastcurptr_v	Mcast cur ptr v
<i>mccurptr_v</i>	Mcast cur ptr v
srcport	Source Port
<i>sport</i>	Source Port
vlan	Vlan
<i>vlan</i>	Vlan
segwgt	Segwgt
<i>segwgt</i>	Segwgt
segid	Segid
<i>segid</i>	Segid
seglocal	Seglocal
<i>seglcl</i>	Seglocal

gbw_color	GBW color
<i>gbw_color</i>	GBW color
gbw_tag	GBW tagged
<i>gbw_tagg</i>	GBW tagged
fwddrp	Forward drop
<i>fwddrp</i>	Forward drop
l2fld	L2 Flood
<i>l2fld</i>	L2 Flood
nodrp	No drop
<i>nodrp</i>	No drop
ovrlyidx	Overlay index
<i>ovrlyidx</i>	Overlay index
ecncap	ECN Capable
<i>ecncap</i>	ECN Capable
cpu	CPU
<i>cpu</i>	CPU
store_fwd	Store_fwd
<i>stfwd</i>	Store_fwd
mcast	Multicast
<i>mcast</i>	Multicast
oclass	Output class
<i>ocls</i>	Output class
iclass	Input class
<i>icls</i>	Input class
odest_v	Odest_v
<i>odest_v</i>	Odest_v
odest	Odest
<i>odest</i>	Odest
ovec	Ovector



<i>ovec</i>	Ovector
<i>span_trans</i>	SPAN transit
<i>span_trans</i>	SPAN transit
<i>lbtype</i>	Lbtype
<i>lbtype</i>	Lbtype
<i>lbena</i>	Lbenable
<i>lbena</i>	Lbenable
<i>tdmid</i>	Tdmid
<i>tdmid</i>	Tdmid
<i>pktid</i>	Pkt_id
<i>pktid</i>	Pkt_id
<i>srcid</i>	Src_id
<i>srcid</i>	Src_id
<i>eoferror</i>	EOF error
<i>eoferr</i>	EOF erro
<i>eofbytes</i>	EOF bytes
<i>eofby</i>	EOF bytes
<i>eof</i>	EOF
<i>eof</i>	EOF
<i>sof</i>	SOF
<i>sof</i>	SOF

#### Command Mode

- /exec/elanms/outsel5

# set tag

```
{ { set tag <value> } | { no set tag [ <value> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
tag	Tag value for destination routing protocol
<i>value</i>	Tag value

## Command Mode

- /exec/configure/route-map

# set weight

```
{ set weight <count> | no set weight [ <count> ] }
```

## Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
weight	BGP weight for routing table
<i>count</i>	Weight value

## Command Mode

- /exec/configure/route-map

# setup

setup

## Syntax Description

setup	Run the basic SETUP command facility
-------	--------------------------------------

## Command Mode

- /exec

# sflow

```
sflow { [ sampling-rate <rate> ] | [ max-sampled-size <pkt-size> ] | [ counter-poll-interval <interval> ] | [ max-datagram-size <dgram-size> ] | [ collector-ip <dst-ip> vrf { <vrf-name> | <vrf-known-name> } ] | [ source <src-ip> ] | [ collector-port <dst-port> ] | [ agent-ip <agent-ip> ] }
```

## Syntax Description

sflow	change sFlow global settings
sampling-rate	(Optional) sFlow Sampling Rate
<i>rate</i>	(Optional) sFlow Sampling rate
max-sampled-size	(Optional) sFlow Sampled Size
<i>pkt-size</i>	(Optional) sFlow Sampled Size
counter-poll-interval	(Optional) sFlow Counter Poll Interval
<i>interval</i>	(Optional) sFlow Counter Poll Interval
max-datagram-size	(Optional) sFlow Datagram Size
<i>dgram-size</i>	(Optional) sFlow Datagram Size
collector-ip	(Optional) sFlow Collector IP address
<i>dst-ip</i>	(Optional) sFlow Collector IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source IP address to send to sFlow Collector
<i>src-ip</i>	(Optional) Source IP address to send to sFlow Collector
collector-port	(Optional) sFlow Collector UDP port
<i>dst-port</i>	(Optional) sFlow Collector UDP port
agent-ip	(Optional) sFlow Agent IP address
<i>agent-ip</i>	(Optional) sFlow Agent IP address

## Command Mode

- /exec/configure

# sflow

[no] sflow { sampling-rate | max-sampled-size | counter-poll-interval | max-datagram-size | collector-ip | collector-port | agent-ip }

## Syntax Description

no	Negate a command or set its defaults
sflow	change sFlow global settings
sampling-rate	sFlow Sampling Rate
max-sampled-size	sFlow Sampled Size
counter-poll-interval	sFlow Counter Poll Interval
max-datagram-size	sFlow Datagram Size
collector-ip	sFlow Collector IP address
collector-port	sFlow Collector UDP port
agent-ip	sFlow Agent IP address

## Command Mode

- /exec/configure

# sflow cpu-usage limit

sflow cpu-usage limit <percent>

## Syntax Description

sflow	change sFlow global settings
cpu-usage	sFlow cpu usage setting
limit	sFlow cpu usage limit
<i>percent</i>	sFlow cpu usage limit percentage

## Command Mode

- /exec/configure

## sflow data-source interface

sflow data-source interface { <ifnum> | <pcifnum> }

### Syntax Description

sflow	change sFlow global settings
data-source	sFlow Data Source
interface	sFlow Data Source Interface
<i>ifnum</i>	sFlow Data Source Interface
<i>pcifnum</i>	sFlow Data Source Interface

### Command Mode

- /exec/configure



# sflow data-source interface

[no] sflow data-source interface { <ifnum> | <pcifnum> }

## Syntax Description

no	Negate a command or set its defaults
sflow	change sFlow global settings
data-source	sFlow Data Source
interface	sFlow Data Source Interface
<i>ifnum</i>	sFlow Data Source Interface
<i>pcifnum</i>	sFlow Data Source Interface

## Command Mode

- /exec/configure

# sflow extended switch

[no] sflow extended switch

## Syntax Description

no	(Optional) Negate a command or set its defaults
sflow	change sFlow global settings
extended	sFlow extended flow records
switch	sFlow extended switch flow

## Command Mode

- /exec/configure

# shape

```
[no] shape { { [ average ] { <avg-rate> [ bps | kbps | mbps | gbps ] | percent <percentage> } } | { min { <min-rate> [ bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent2 <percentage2> } max { <max-rate> [ bps3 | kbps3 | mbps3 | gbps3 | pps3 ] | percent3 <percentage3> } } } | { { kbps4 | pps4 } { <max-rate4> [ min2 <min-rate4> ] } } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
shape	shape
average	(Optional) Configure average shape rate
min	Configure minimum shape rate
max	Configure maximum shape rate
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bps3	(Optional) Bits per second
kbps3	(Optional) Kilo Bits per second
mbps3	(Optional) Mega Bits per second
gbps3	(Optional) Giga Bits per second
pps3	(Optional) Packets per second
percent	Specify rate as percentage of interface data-rate
percent2	Specify rate as percentage of interface data-rate
percent3	Specify rate as percentage of interface data-rate
<i>percentage</i>	Percentage

<i>percentage2</i>	Percentage
<i>percentage3</i>	Percentage
<i>kbits4</i>	Kilo Bits per second
<i>pps4</i>	Packets per second
<i>min2</i>	(Optional) Min guaranteed bandwidth

**Command Mode**

- /exec/configure/policy-map/type/queuing/class

# shared-secret

```
[no] shared-secret { 10 <clear> | 7 <encrypted> | <secret> } [ user <user> password { 0 <clear> | 7 <encrypted> | <password> } ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
shared-secret	Shared-secret
<i>secret</i>	Enter shared-secret in clear text
10	password in clear text
<i>clear</i>	Password in clear text
7	Password that follows should be in encrypted text
<i>encrypted</i>	Encrypted password
user	(Optional) User Name
<i>user</i>	(Optional) Enter user name
password	(Optional) Password
<i>password</i>	(Optional) Enter password in clear text
0	(Optional) Password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password

## Command Mode

- /exec/configure/fabric-db/server-radius

# shutdown

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown MPLS Traffic Engineering

## Command Mode

- /exec/configure/te

# shutdown (expl-path)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Disable current explicit-path

## Command Mode

- /exec/configure/te/expl-path

# shutdown (if-mgmt-ether)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

## Command Mode

- /exec/configure/if-mgmt-ether



# shutdown

[no] shutdown [ force ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

## Command Mode

- /exec/configure/if-ethernet /
- exec/configure/if-ethernet-switch
- /exec/configure/if-ethernet-all
- /exec/configure/if-eth-base
- /exec/configure/if-port-channel
- /exec/configure/if-eth-port-channel
- /exec/configure/if-ethernet-all
- /exec/configure/if-ethernet-p2p
- /exec/configure/if-remote-ethernet-sub

# shutdown force

[no] shutdown [ force ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

## Command Mode

- /exec/configure/if-ether-sub
- /exec/configure/if-ether-sub-p2p
- /exec/configure/if-port-channel-sub

# shutdown (if-nve)

[no] shutdown [ force ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

## Command Mode

- /exec/configure/if-nve

# shutdown (if-loopback)

[no] shutdown [ force ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

## Command Mode

- /exec/configure/if-loopback

# shutdown

[no] shutdown [ force ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

## Command Mode

- /exec/configure/if-cpp
- /exec/configure/if-fv
- /exec/configure/if-fa
- /exec/configure/if-svc
- /exec/configure/if-fc-tunnel
- /exec/configure/if-sme
- /exec/configure/if-ioa
- /exec/configure/if-overlay
- /exec/configure/if-te

# shutdown

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

## Command Mode

- /exec/configure/if-gig-ether
- /exec/configure/if-fc /exec/configure/if-bay
- /exec/configure/if-ext /exec/configure/if-vsan
- /exec/configure/if-iscsi
- /exec/configure/if-fcip
- /exec/configure/if-sme
- /exec/configure/if-ioa
- /exec/configure/if-vfc /
- exec/configure/if-vfc-port-channel

# shutdown (router-bgp)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Administratively shutdown BGP protocol

## Command Mode

- /exec/configure/router-bgp

# shutdown

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	shutdown the OSPF protocol instance

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf



# shutdown (vrf)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown current VRF

## Command Mode

- /exec/configure/vrf

# shutdown (router-bgp-neighbor-sess)

[ no | default ] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
shutdown	Administratively shutdown this neighbor

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# shutdown (router-eigrp-af-common)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown this instance of EIGRP

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# shutdown (if-vlan-common)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

## Command Mode

- /exec/configure/if-vlan-common

# shutdown (vrf)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown the OSPF protocol instance

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# shutdown (anycast)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Change the admin status of the bundle

## Command Mode

- /exec/configure/anycast

# shutdown (router-rip-vrf)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown this instance of RIP

## Command Mode

- /exec/configure/router-rip /exec/configure/router-rip/router-rip-vrf

# shutdown (if-any-tunnel)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown tunnel interface(s)

## Command Mode

- /exec/configure/if-any-tunnel



# shutdown (ldp)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Disable MPLS forwarding for IP

## Command Mode

- /exec/configure/ldp

# shutdown (itd-inout)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	

## Command Mode

- /exec/configure/itd /exec/configure/itd-inout

# shutdown (vrrpv3)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shut down VRRPv3

## Command Mode

- /exec/configure/vrrpv3

# shutdown (vrrpv3)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shut down the group

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# shutdown (vrrs)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shut down the pathway

## Command Mode

- /exec/configure/if-eth-any/vrrs

# shutdown (cbts-member)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown the CBTS member LSP

## Command Mode

- /exec/configure/tunnel-te/cbts-member

# shutdown (vrrp)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable or disable a VR

## Command Mode

- /exec/configure/if-eth-any/vrrp

# shutdown (router-isis-vrf-common)

[no] shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown this IS-IS process

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common



# shutdown force

[no] shutdown force

## Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	Enable/disable an interface

## Command Mode

- /exec/configure/if-mgmt-ether

# signalling advertise explicit-null

[no] signalling advertise explicit-null | signalling advertise explicit-null [ <acl> ]

## Syntax Description

no	Negate a command or set its defaults
signalling	Traffic Engineering Signalling Parameters
advertise	Signalling advertisement parameters
explicit-null	Advertise explicit-null label in signalling messages
<i>acl</i>	(Optional) Access list

## Command Mode

- /exec/configure/te

# signalling client batch-time

[no] signalling client batch-time <msec>

## Syntax Description

signalling	Configure RSVP Signalling information
client	Client information
batch-time	Time interval between batched messages to client
<i>msec</i>	Batch-time msec [use 0 to disable, else minimum timer value is 20 msec]

## Command Mode

- /exec/configure/ip-rsvp

# signalling hello graceful-restart

[no] signalling hello graceful-restart

## Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands

## Command Mode

- /exec/configure/ip-rsvp

# signalling hello graceful-restart refresh interval

[no] signalling hello graceful-restart refresh interval <value>

## Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
refresh	Configure RSVP Hello refresh behavior for Graceful Restart
interval	Time between sending Hello Requests for Graceful Restart
<i>value</i>	Hello interval in msec

## Command Mode

- /exec/configure/ip-rsvp

# signalling hello graceful-restart refresh misses

[no] signalling hello graceful-restart refresh misses <value>

## Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
refresh	Configure RSVP Hello refresh behavior for Graceful Restart
misses	Number of Hello misses for Graceful Restart
<i>value</i>	Number of missed Hello Acks which triggers neighbor down

## Command Mode

- /exec/configure/ip-rsvp

# signalling hello graceful-restart send recovery-time

[no] signalling hello graceful-restart send recovery-time <value>

## Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
send	Configure the restart-time in outgoing Hello msgs
recovery-time	Configure the recovery-time in outgoing GR Hello msgs
<i>value</i>	recovery-time in msec

## Command Mode

- /exec/configure/ip-rsvp

# signalling hello graceful-restart send restart-time

[no] signalling hello graceful-restart send restart-time <value>

## Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
send	Configure the restart-time in outgoing Hello msgs
restart-time	Configure the restart-time in outgoing GR Hello msgs
<i>value</i>	restart-time in msec

## Command Mode

- /exec/configure/ip-rsvp



# signalling hello reroute

[no] signalling hello reroute

## Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
reroute	RSVP Reroute commands

## Command Mode

- /exec/configure/ip-rsvp

# signalling initial-retransmit-delay

[no] signalling initial-retransmit-delay <msec>

## Syntax Description

signalling	Configure RSVP Signalling information
initial-retransmit-delay	RSVP Initial retransmit delay
<i>msec</i>	Initial retransmit delay in millisecc

## Command Mode

- /exec/configure/ip-rsvp

# signalling patherr state-removal

[no] signalling patherr state-removal

## Syntax Description

signalling	Configure RSVP Signalling information
patherr	Configure Path-Error processing
state-removal	Setup automatic removal of path-state

## Command Mode

- /exec/configure/ip-rsvp

# signalling rate-limit

```
[no] signalling rate-limit { [ interval <msec> ] [ limit <messages> ] } | { [ limit <messages> ] [ interval <msec> ] }
```

## Syntax Description

signalling	Configure RSVP Signalling information
rate-limit	Configure rate-limiting
interval	(Optional) Configure scheduling interval
<i>msec</i>	(Optional) Interval in millisec
limit	(Optional) Configure message limit per scheduling interval
<i>messages</i>	(Optional) Message limit value

## Command Mode

- /exec/configure/ip-rsvp

# signalling refresh interval

[no] signalling refresh interval <seconds>

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
interval	Set signaling refresh interval
<i>seconds</i>	Signaling refresh interval in seconds

## Command Mode

- /exec/configure/ip-rsvp

# signalling refresh misses

[no] signalling refresh misses <value>

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
misses	Set refresh misses tolerated before expiring a state
<i>value</i>	Refresh miss value

## Command Mode

- /exec/configure/ip-rsvp

# signalling refresh pace

[no] signalling refresh pace

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
pace	Pace sending of refresh messages

## Command Mode

- /exec/configure/ip-rsvp

# signalling refresh reduction

[no] signalling refresh reduction

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters

## Command Mode

- /exec/configure/ip-rsvp



# signalling refresh reduction ack-delay

[no] signalling refresh reduction ack-delay <msec>

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
ack-delay	Set delay for sending ACK messages
<i>msec</i>	ACK delay value in millisecc

## Command Mode

- /exec/configure/ip-rsvp

# signalling refresh reduction bundle-max-size

[no] signalling refresh reduction bundle-max-size <value>

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
bundle-max-size	Set bundle-maximum-size
<i>value</i>	Bundle size in bytes, use zero to disable bundling

## Command Mode

- /exec/configure/ip-rsvp

# signalling refresh reduction bundle-transmit-time

[no] signalling refresh reduction bundle-transmit-time <msec>

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
bundle-transmit-time	Set bundle-transmit-time
<i>msec</i>	Bundle transmit time value in msec

## Command Mode

- /exec/configure/ip-rsvp

# signalling refresh reduction rapid-retransmit

[no] signalling refresh reduction rapid-retransmit

## Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
rapid-retransmit	Rapid-retransmit of RSVP messages

## Command Mode

- /exec/configure/ip-rsvp

# signing level

{ [ no ] signing level { none | cisco | unsigned } | no signing level }

## Syntax Description

no	(Optional) Negate a command or set its defaults
signing	Virtual service package signing settings
level	Package signing level allowed for virtual service installation
none	Most restrictive, don't allow package installation
cisco	Allow only Cisco signed packages
unsigned	Least restrictive, allow unsigned and all signing methods

## Command Mode

- /exec/configure/virt-serv-global

# site-id

{ site-id <s0> | no site-id }

## Syntax Description

no	Negate a command or set its defaults
site-id	site id of the network where switch is deployed
s0	Provide site id

## Command Mode

- /exec/configure/callhome

# site-of-origin

```
{ site-of-origin { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } | { no site-of-origin [ {  
<ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } ] }
```

## Syntax Description

no	Negate a command or set its defaults
site-of-origin	Site of Origin
<i>ext-comm-soo-aa2nn4</i>	
<i>ext-comm-soo-aa4nn2</i>	

## Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-ether

# sleep

sleep <i0>

## Syntax Description

sleep	Sleep for the specified number of seconds
<i>i0</i>	Enter the number of seconds to sleep

## Command Mode

- /exec



# sleep instance

[no] sleep instance <inst> [ <i0> ] | sleep instance <inst> <i0>

## Syntax Description

no	Negate a command or set its defaults
sleep	Sleep for the specified number of seconds
instance	Label with an instance number
<i>inst</i>	Instance number
<i>i0</i>	(Optional) Enter the number of seconds to sleep

## Command Mode

- /exec/configure

# slot

slot <module> { quoted <quoted-cmd> | <cmd> }

## Syntax Description

slot	run commands on specific linecard (or set slot for commands that take optional slot number)
<i>module</i>	the slot number (aka module number)
quoted	enter the command with quotes -> pipe redirection and semi-colon are local
<i>quoted-cmd</i>	the command(s) to run on lc separated by <space> <semi-colon> <space>
<i>cmd</i>	the command(s) to run on lc separated by <space> <semi-colon> <space>

## Command Mode

- /exec

# smtp-host

```
{ smtp-host { <ipv4> | <ipv6> | <host> } [ smtp-port <port> ] | smtp-port <port> | reply-to <reply> | from <from> |
```

## Syntax Description

<i>}</i>	
smtp-host	SMTP server host
<i>ipv4</i>	IPV4 address
<i>host</i>	DNS name
smtp-port	(Optional) SMTP server port
<i>port</i>	(Optional) Port for SMTP server
reply-to	Reply to email address
<i>reply</i>	Provide reply-to email address
from	From email address
<i>from</i>	Provide from email address

## Command Mode

- /exec/configure/email

# snapshot create

snapshot create <snapshot-name> <snapshot-description>

## Syntax Description

snapshot	Create/Delete a snapshot
create	Create a snapshot of running state of selected features
<i>snapshot-name</i>	Name of a snapshot
<i>snapshot-description</i>	Description of a snapshot

## Command Mode

- /exec

# snapshot delete

snapshot delete <snapshot-name>

## Syntax Description

snapshot	Create/Delete a snapshot
delete	Delete a single snapshot or all snapshots
<i>snapshot-name</i>	Name of a snapshot

## Command Mode

- /exec

# snapshot delete ALL

snapshot delete ALL

## Syntax Description

snapshot	Create/Delete a snapshot
delete	Delete a single snapshot or all snapshots
ALL	Delete all snapshots present on the switch

## Command Mode

- /exec

# snapshot section add

snapshot section add <name> <command> <row-id> <key1> [ <key2> ]

## Syntax Description

snapshot	Create/Delete a snapshot
section	Add/Delete a snapshot section
add	Add a snapshot section
<i>name</i>	Name of a section
<i>command</i>	show' command to generate XML output
<i>row-id</i>	tag of each row entry of the 'show' XML output
<i>key1</i>	first key to distinguish among row entries with
<i>key2</i>	(Optional) second key to distinguish among row entries with

## Command Mode

- /exec

# snapshot section delete

snapshot section delete <name>

## Syntax Description

snapshot	Create/Delete a snapshot
section	Add/Delete a snapshot section
delete	Delete a snapshot section
<i>name</i>	Name of a section

## Command Mode

- /exec



# snmp-server aaa-user cache-timeout

[no] snmp-server aaa-user cache-timeout <timeout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
aaa-user	set duration for which aaa-cached snmp user exists
cache-timeout	timeout for AAA cache
<i>timeout</i>	timeout for which aaa-cached user exists(in secs)

## Command Mode

- /exec/configure

## snmp-server community

[no] snmp-server community <community\_name> use-acl <acl\_name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
community	set community string and access privs
<i>community_name</i>	SNMP community string
use-acl	acl name to filter snmp requests
<i>acl_name</i>	acl name to filter snmp requests

### Command Mode

- /exec/configure

# snmp-server community

[no] snmp-server community <s0> [ { group <s1> | ro | rw } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
community	set community string and access privs
<i>s0</i>	SNMP community string
group	(Optional) Group to which the community belongs
<i>s1</i>	(Optional) Group to which the community belongs
ro	(Optional) Read-only access with this community string
rw	(Optional) Read-write access with this community string

## Command Mode

- /exec/configure

# snmp-server contact

[no] snmp-server contact [ <line> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
contact	modify sysContact
<i>line</i>	(Optional) modify sysContact

## Command Mode

- /exec/configure

## snmp-server context

```
[no] snmp-server context <context_name> [ instance <instance-name> ] [ vrf { <vrf-name> | <vrf-known-name>
} ] [ topology <topology-name> ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
context	SNMP context to be mapped
<i>context_name</i>	name of the SNMP context
instance	(Optional) Protocol instance associated with the SNMP context
<i>instance-name</i>	(Optional) Name of the protocol instance
vrf	(Optional) VRF associated with the SNMP context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
topology	(Optional) Topology associated with the SNMP context
<i>topology-name</i>	(Optional) name of the Topology

### Command Mode

- /exec/configure

## snmp-server context

[no] snmp-server context <context\_name> type { vrf | topology | instance | vlan | mst } len <i2> val <i3>

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
context	SNMP context to be mapped
<i>context_name</i>	name of the SNMP context
type	type of association to context
instance	Protocol instance associated with the SNMP context
vrf	VRF associated with the SNMP context
topology	Topology associated with the SNMP context
vlan	Vlan id associated with the SNMP context
mst	Mst id associated with the SNMP context
len	Length of value
<i>i2</i>	Length of value
val	Value
<i>i3</i>	Value of variable associated with the SNMP context

### Command Mode

- /exec/configure

# snmp-server counter cache-enable

[no] snmp-server counter cache-enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
counter	Configure port counter configuration
cache-enable	Enable port stats cache

## Command Mode

- /exec/configure

# snmp-server counter cache enable

[no] snmp-server counter cache enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
counter	Configure port counter configuration
cache	port stats cache
enable	enable port stats cache

## Command Mode

- /exec/configure



# snmp-server counter cache timeout

[no] snmp-server counter cache timeout <timeout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
counter	Configure port counter configuration
cache	Port stats cache
timeout	Timeout for port stats cache
<i>timeout</i>	Timeout for which cached port stats exists(in secs)

## Command Mode

- /exec/configure

## snmp-server enable traps

[no] snmp-server enable traps [ <trap\_arg> [ <trap\_sub\_category> + ] ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
<i>trap_arg</i>	(Optional) Enable __left__ traps
<i>trap_sub_category</i>	(Optional) Enter the trap

### Command Mode

- /exec/configure

## snmp-server enable traps bgp

[no] snmp-server enable traps bgp [ { state-changes [ <subsystem> + ] } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
state-changes	(Optional) Traps for FSM state changes
<i>subsystem</i>	(Optional) subsystem within BGP for SNMP traps

### Command Mode

- /exec/configure

## snmp-server enable traps bgp cbgp2

[no] snmp-server enable traps bgp cbgp2 [ { state-changes [ <subsystem> + ] } ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
cbgp2	Enable SNMP CISCO-BGP-MIBv2 traps
state-changes	(Optional) Traps for FSM state changes
<i>subsystem</i>	(Optional) subsystem within BGP for SNMP traps

### Command Mode

- /exec/configure

# snmp-server enable traps bgp cbgp2 threshold prefix

[no] snmp-server enable traps bgp cbgp2 threshold prefix

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
cbgp2	Enable SNMP CISCO-BGP-MIBv2 traps
threshold	Traps for threshold events
prefix	CISCO specific trap for prefix threshold events

## Command Mode

- /exec/configure

## snmp-server enable traps bgp threshold prefix

[no] snmp-server enable traps bgp threshold prefix

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
threshold	Traps for threshold events
prefix	CISCO specific trap for prefix threshold events

### Command Mode

- /exec/configure

## snmp-server enable traps eigrp

[no] snmp-server enable traps eigrp [ <eigrp-ptag> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
eigrp	Enable SNMP EIGRP traps
<i>eigrp-ptag</i>	(Optional) Process tag

### Command Mode

- /exec/configure

# snmp-server enable traps msdp

[no] snmp-server enable traps msdp

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
msdp	Enable SNMP MSDP traps

## Command Mode

- /exec/configure



## snmp-server enable traps ospf

[no] snmp-server enable traps ospf [ <tag> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospf	Enable SNMP OSPF traps
<i>tag</i>	(Optional) Process tag

### Command Mode

- /exec/configure

## snmp-server enable traps ospf

[no] snmp-server enable traps ospf [ <tag> ] lsa

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospf	Enable SNMP OSPF traps
<i>tag</i>	(Optional) Process tag
lsa	Allow sending LSA traps

### Command Mode

- /exec/configure

# snmp-server enable traps ospfv3

[no] snmp-server enable traps ospfv3 [ <tag> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospfv3	Enable SNMP OSPFv3 traps
<i>tag</i>	(Optional) Process tag

## Command Mode

- /exec/configure

## snmp-server enable traps ospfv3

[no] snmp-server enable traps ospfv3 [ <tag> ] lsa

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospfv3	Enable SNMP OSPFv3 traps
<i>tag</i>	(Optional) Process tag
lsa	Enable SNMP OSPFv3 LSA traps

### Command Mode

- /exec/configure

## snmp-server enable traps storm-control trap-rate

[no] snmp-server enable traps storm-control trap-rate <rate-per-minute>

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
storm-control	Enable storm-control traps
trap-rate	Number of traps per minute
<i>rate-per-minute</i>	per Minute (0 means no upper rate)

### Command Mode

- /exec/configure

# snmp-server force-unload-feature

snmp-server force-unload-feature <feature\_name>

## Syntax Description

snmp-server	Configure snmp server
force-unload-feature	unload mibs of conditional feature forcefully
<i>feature_name</i>	conditional feature name

## Command Mode

- /exec/configure

# snmp-server globalEnforcePriv

[no] snmp-server globalEnforcePriv

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
globalEnforcePriv	globally enforce privacy for all the users

## Command Mode

- /exec/configure

## snmp-server host

```
[no] snmp-server host <host0> [ [ informs { { version { 2c <s1> | 3 { auth <s2> | noauth <s3> | priv <s4> } } } | <s5> } | traps { { version { 1 <s0> | 2c <s1> | 3 { auth <s2> | noauth <s3> | priv <s4> } } } | <s5> } ] | { version { 1 <s0> | 2c <s1> | 3 { auth <s2> | noauth <s3> | priv <s4> } } } | <s5> } ] [ udp-port <i1> ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
informs	(Optional) Send Inform messages to this host
traps	(Optional) Send Traps messages to this host
version	(Optional) SNMP version to use for notification messages
1	(Optional) Use SNMPv1
<i>s0</i>	(Optional) SNMP community string or SNMPv3 user name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number
2c	(Optional) Use SNMPv2c
<i>s1</i>	(Optional) SNMP community string or SNMPv3 user name
3	(Optional) Use SNMPv3
auth	(Optional) Use the SNMPv3 authNoPriv Security Level
<i>s2</i>	(Optional) SNMP community string or SNMPv3 user name
noauth	(Optional) Use the SNMPv3 noAuthNoPriv Security Level
<i>s3</i>	(Optional) SNMP community string or SNMPv3 user name
priv	(Optional) Use the SNMPv3 authPriv Security Level
<i>s4</i>	(Optional) SNMP community string or SNMPv3 user name
<i>s5</i>	(Optional) SNMP community string or SNMPv3 user name

### Command Mode

- /exec/configure



# snmp-server host

```
[no] snmp-server host <host0> { use_vrf <s0> | filter_vrf <s1> } [ udp-port <i1> ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
use_vrf	Configures SNMP to use the selected VRF to communicate with the host receiver
<i>s0</i>	VRF name
filter_vrf	Filters notifications to the notification host receiver based on the configured VRF
<i>s1</i>	VRF name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

## Command Mode

- /exec/configure

## snmp-server host

[no] snmp-server host <host0> use-vrf { <vrf-name> | <vrf-known-name> } [ udp-port <i1> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
use-vrf	Configures SNMP to use the selected VRF to communicate with the host receiver
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

### Command Mode

- /exec/configure

## snmp-server host

[no] snmp-server host <host0> filter-vrf { <vrf-name> | <vrf-known-name> } [ udp-port <i1> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
filter-vrf	Filters notifications to the notification host receiver based on the configured VRF
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

### Command Mode

- /exec/configure

## snmp-server host

[no] snmp-server host <host0> { source-interface <ifName> } [ udp-port <i1> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to send SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
source-interface	Source interface to be used for sending out SNMP notifications to this host
<i>ifName</i>	Source interface name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

### Command Mode

- /exec/configure

# snmp-server load-cond-feature

[no] snmp-server load-cond-feature <feature\_name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
load-cond-feature	load or unload mibs of conditional feature
<i>feature_name</i>	conditional feature name

## Command Mode

- /exec/configure

# snmp-server load-mib

[no] snmp-server load-mib <mib\_name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
load-mib	load a given mib
<i>mib_name</i>	mib module name

## Command Mode

- /exec/configure

# snmp-server location

[no] snmp-server location [ <line> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
location	modify sysLocation
<i>line</i>	(Optional) modify sysLocation

## Command Mode

- /exec/configure

## snmp-server mib community-map

[no] snmp-server mib community-map <community\_name> context <context\_name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
mib	mib access parameters
community-map	SNMP community
<i>community_name</i>	SNMP community string
context	SNMP context to be mapped
<i>context_name</i>	name of the SNMP context

### Command Mode

- /exec/configure



# snmp-server protocol enable

[no] snmp-server protocol enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
protocol	snmp protocol operations
enable	Enable/Disable snmp protocol operations

## Command Mode

- /exec/configure

## snmp-server source-interface

[no] snmp-server source-interface { traps | informs } <ifName>

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
source-interface	Source interface to be used for sending out SNMP notifications
<i>ifName</i>	Source interface name
traps	SNMP Trap notifications for which this source interface needs to be used
informs	SNMP Inform notifications for which this source interface needs to be used

### Command Mode

- /exec/configure

# snmp-server system-shutdown

[no] snmp-server system-shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
system-shutdown	Configure snmp-server for reload(2)

## Command Mode

- /exec/configure

## snmp-server tcp-session

[no] snmp-server tcp-session [ auth ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
tcp-session	Enable one time authentication for snmp over tcp session.
auth	(Optional) Enable one time authentication for snmp over tcp session.

### Command Mode

- /exec/configure

## snmp-server user

```
[no] snmp-server user <s0> { enforcePriv | { [ <s1> ] { [ auth { md5 | sha } <s2> { { priv [ aes-128 ] { <s3>
[ localizedkey ] [ { auto | engineID <s4> } ] } } | { [ localizedkey1 ] [ { auto1 | engineID1 <s5> } ] } } } }
}
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
user	Define a user who can access the SNMP engine
s0	Name of the user
enforcePriv	Enforce privacy for the user
s1	(Optional) Group name (ignored for notif target user)
auth	(Optional) authentication parameters for the user
md5	(Optional) Use HMAC MD5 algorithm for authentication
sha	(Optional) Use HMAC SHA algorithm for authentication
s2	(Optional) authentication password for user
priv	(Optional) encryption parameters for the user
aes-128	(Optional) Use 128-bit AES algorithm for privacy
s3	(Optional) privacy password for user
localizedkey	(Optional) specifies whether the passwords are in localized key format
auto	(Optional) specifies whether the user is auto created (volatile)
engineID	(Optional) engineID for configuring notif target user (for V3 informs)
s4	(Optional) specifies notification target's SNMP engineID(colon separated)
localizedkey1	(Optional) specifies whether the passwords are in localized key format
auto1	(Optional) specifies whether the user is auto created (volatile)
engineID1	(Optional) engineID for configuring notif target user (for V3 informs)
s5	(Optional) specifies notification target's SNMP engineID(colon separated)

### Command Mode

- /exec/configure

# snmp-trap

```
snmp-trap [ intdata1 <integer-data1> ] [ intdata2 <integer-data2> ] [ strdata <string-data> ] event-type <ev_type>
policy-name <name>
```

## Syntax Description

snmp-trap	Send
intdata1	(Optional) Enter
<i>integer-data1</i>	(Optional) Integer
intdata2	(Optional) Enter
<i>integer-data2</i>	(Optional) Integer
strdata	(Optional) Enter
<i>string-data</i>	(Optional) String
event-type	Event type
<i>ev_type</i>	Event type
policy-name	Policy Name
<i>name</i>	Policy Name

## Command Mode

- /exec

# snmp ifmib ifalias long

[no] snmp ifmib ifalias long

## Syntax Description

no	(Optional) Negate a command or set its defaults
snmp	Configure snmp
ifmib	Configure snmp interface mib feature
ifalias	Configure snmp interface alias attribute for interface mib
long	Enable long description up to 256 characters for interface alias

## Command Mode

- /exec/configure

# snmp trap link-status

snmp trap link-status | no snmp trap link-status

## Syntax Description

no	Negate a command
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

## Command Mode

- /exec/configure/if-any-tunnel



# snmp trap link-status

snmp trap link-status | no snmp trap link-status

## Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

## Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub /exec/configure/if-gig-ether-sub /exec/configure/if-remote-ethernet-sub /exec/configure/if-ether-sub-p2p

# snmp trap link-status

snmp trap link-status

## Syntax Description

snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-port-channel-range

# snmp trap link-status

[no] snmp trap link-status

## Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-port-channel-range

## snmp trap link-status

snmp trap link-status | no snmp trap link-status

### Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

### Command Mode

- /exec/configure/if-mgmt-ether

# snmp trap link-status

snmp trap link-status | no snmp trap link-status

## Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

## Command Mode

- /exec/configure/if-vlan-common

## sockets local-port-range

```
{ { no sockets local-port-range } | { sockets local-port-range <start-port> <end-port> } }
```

### Syntax Description

no	Negate a command or set its defaults
sockets	Negate a command or set its defaults
local-port-range	Define local port range for Kstack. Note: This CLI requires switch to be reloaded
<i>start-port</i>	Start port of local port range
<i>end-port</i>	End port of local port range

### Command Mode

- /exec/configure /exec/configure/config-mgmt

# soft-reconfiguration inbound

{ soft-reconfiguration inbound [ always ] } | { no soft-reconfiguration inbound } | { default soft-reconfiguration inbound }

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
soft-reconfiguration	Soft reconfiguration
inbound	Allow inbound soft reconfiguration
always	(Optional) Always perform inbound soft reconfiguration

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af

# soft-reconfiguration inbound

{ soft-reconfiguration inbound [ always ] } | { no soft-reconfiguration inbound } | { default soft-reconfiguration inbound }

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
soft-reconfiguration	Soft reconfiguration
inbound	Allow inbound soft reconfiguration
always	(Optional) Always perform inbound soft reconfiguration

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn



## SOO

```
{ [ no ] soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } | { default soo }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	Inherit values from a peer template
soo	Specify Site-of-origin extcommunity
<i>ext-comm-soo-aa4nn2</i>	
<i>ext-comm-soo-aa2nn4</i>	

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6

# sort

sort [ -b | -d | -f | -g | -i | -M | -n | -r | -k <key> | -t <delim> | -u ] +

## Syntax Description

	Pipe command output to filter
sort	Stream Sorter
-b	(Optional) ignore leading blanks
-d	(Optional) consider only blanks and alphanumeric characters
-f	(Optional) fold lower case to upper case characters
-g	(Optional) compare according to general numerical value
-i	(Optional) consider only printable characters
-M	(Optional) month sort
-n	(Optional) compare according to string numerical value
-r	(Optional) reverse the result of comparisons
-k	(Optional) provide a key
-t	(Optional) use different separator instead of non-blank to blank transition
-u	(Optional) remove duplicate lines
<i>key</i>	(Optional) key in format POS1[,POS2] with POS = <field-nb>[.<char-pos>][<ordering>]
<i>delim</i>	(Optional) field delimiter char

## Command Mode

- /output

# source-group

[no] source-group <source> <group>

## Syntax Description

no	(Optional) Negate a command or set its defaults
source-group	Source Group
<i>source</i>	Configure source address
<i>group</i>	Configure group address

## Command Mode

- /exec/configure/if-nve

# source-interface

[no] source-interface | source-interface <interface>

## Syntax Description

no	Negate a command or set its defaults
source-interface	Source interface to be used to reach radius server
<i>interface</i>	Interface (default is mgmt)

## Command Mode

- /exec/configure/radius

# source-interface

source-interface <src\_if> | no source-interface

## Syntax Description

no	Negate a command or set its defaults
source-interface	NVE Source-Interface
<i>src_if</i>	

## Command Mode

- /exec/configure/if-nve

# source-interface

[no] source-interface | source-interface <interface>

## Syntax Description

no	Negate a command or set its defaults
source-interface	Source interface to be used to reach tacacs server
<i>interface</i>	Interface (default is mgmt)

## Command Mode

- /exec/configure/tacacs+

# source

source { <ipaddr> } | no source

## Syntax Description

no	Negate a command or set its defaults
source	source of tunnel packets
<i>ipaddr</i>	ip address (A.B.C.D)

## Command Mode

- /exec/configure/if-te

# source

source [ background ] <file> [ <args> ] +

## Syntax Description

source	run a script (python, tcl,...) from bootflash:scripts
background	(Optional) run the script in the background, see also 'show background' and 'kill background'
<i>file</i>	the script file to run
<i>args</i>	(Optional) argument to be passed to script

## Command Mode

- /exec



# source

source <file> [ <args> ] +

## Syntax Description

	Pipe command output to filter
source	run a script (python, tcl,...) from bootflash:scripts
<i>file</i>	the script file to run
<i>args</i>	(Optional) argument to be passed to script

## Command Mode

- /output

## source

{ [ no ] source <intf> | no source }

### Syntax Description

source	Source Interface for this destination
<i>intf</i>	Interface

### Command Mode

- /exec/configure/nfm-exporter

## source copy-sys

source copy-sys

### Syntax Description

source	run a script (python, tcl,...) from bootflash:scripts
copy-sys	copy the system provided example scripts of /sys to bootflash:scripts

### Command Mode

- /exec

## spanning-tree

```
spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } root <root-type> [ diameter <diameter-val> [
hello-time <hello-time-val> ] ] | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } root [ <root-type>
[ diameter <diameter-val> [ hello-time <hello-time-val> ] ] ]
```

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
diameter	(Optional) Network diameter of this spanning tree
<i>diameter-val</i>	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
<i>root-type</i>	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
<i>hello-time-val</i>	(Optional) number of seconds between generation of config bpdu

### Command Mode

- /exec/configure

# spanning-tree

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } priority <prio> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } priority [ <prio> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

## Command Mode

- /exec/configure

## spanning-tree

```
spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } hello-time <hello-time-val> | no spanning-tree {
vlan <vlan-id> | bridge-domain <bd-id> } hello-time [ <hello-time-val> ]
```

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
hello-time	Set the hello interval for the spanning tree
<i>hello-time-val</i>	number of seconds between generation of config bpdu

### Command Mode

- /exec/configure

# spanning-tree

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } forward-time <fwd-time> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } forward-time [ <fwd-time> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
forward-time	Set the forward delay for the spanning tree
<i>fwd-time</i>	number of seconds for the forward delay timer

## Command Mode

- /exec/configure

## spanning-tree

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } max-age <max-age-val> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } max-age [ <max-age-val> ]

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
max-age	Set the max age interval for the spanning tree
<i>max-age-val</i>	maximum number of seconds the information in a bpdu is valid

### Command Mode

- /exec/configure



# spanning-tree

spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] port-priority <port-prio> | no spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] port-priority [ <port-prio> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
port-priority	Change an interface's spanning tree port priority
<i>port-prio</i>	port priority in increments of 32

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree

spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] cost <port-cost> | no spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] cost [ <port-cost> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
cost	Change an interface's spanning tree port path cost
<i>port-cost</i>	port path cost

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree

[no] spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] cost auto

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
cost	Change an interface's spanning tree port path cost
auto	Determine cost based on media speed of this interface

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree bpdufilter

spanning-tree bpdufilter <port-bpdufilter> | no spanning-tree bpdufilter [ <port-bpdufilter> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bpdufilter	Don't send or receive BPDUs on this interface
<i>port-bpdufilter</i>	Don't send or receive BPDUs on this interface

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree bpduguard

spanning-tree bpduguard <port-bpduguard> | no spanning-tree bpduguard [ <port-bpduguard> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bpduguard	Don't accept BPDUs on this interface
<i>port-bpduguard</i>	Don't accept BPDUs on this interface

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

## spanning-tree bridge-domain

[no] spanning-tree bridge-domain <bd-id>

### Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11

### Command Mode

- /exec/configure

# spanning-tree bridge assurance

[no] spanning-tree bridge assurance

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bridge	Spanning tree bridge options
assurance	Enable Bridge Assurance on all network ports

## Command Mode

- /exec/configure

# spanning-tree fcoe

[no] spanning-tree fcoe

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
fcoe	Enable STP for FCoE VLANs

## Command Mode

- /exec/configure



# spanning-tree guard

spanning-tree guard <guard-type> | no spanning-tree guard [ <guard-type> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
guard	Change an interface's spanning tree guard mode
<i>guard-type</i>	Change an interface's spanning tree guard mode

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree lc-issu

spanning-tree lc-issu <issu-type> | no spanning-tree lc-issu [ <issu-type> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
lc-issu	Configure Linecard ISSU type
<i>issu-type</i>	ISSU Type

## Command Mode

- /exec/configure

# spanning-tree lc-issu

spanning-tree lc-issu <port-issu-type> | no spanning-tree lc-issu [ <port-issu-type> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
lc-issu	Configure Linecard ISSU type
<i>port-issu-type</i>	ISSU Type

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree link-type

spanning-tree link-type <link-type-val> | no spanning-tree link-type [ <link-type-val> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
link-type	Specify a link type for spanning tree tree protocol use
<i>link-type-val</i>	Specify a link type for spanning tree tree protocol use

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree loopguard default

[no] spanning-tree loopguard default

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
loopguard	Spanning tree loopguard options
default	Enable loopguard by default on all ports

## Command Mode

- /exec/configure

# spanning-tree mode

spanning-tree mode <stp-mode> | no spanning-tree mode [ <stp-mode> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mode	Spanning Tree operating mode
<i>stp-mode</i>	Spanning Tree operating mode

## Command Mode

- /exec/configure

## spanning-tree mst

```
spanning-tree mst <mst-id> root <root-type> [ diameter <diameter-val> [ hello-time <hello-time-val> ] ] | no
spanning-tree mst <mst-id> root [ <root-type> [ diameter <diameter-val> [ hello-time <hello-time-val> ] ] ]
```

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
diameter	(Optional) Network diameter of this spanning tree
<i>diameter-val</i>	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
<i>root-type</i>	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
<i>hello-time-val</i>	(Optional) number of seconds between generation of config bpdu

### Command Mode

- /exec/configure

## spanning-tree mst priority

spanning-tree mst <mst-id> priority <prio> | no spanning-tree mst <mst-id> priority [ <prio> ]

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

### Command Mode

- /exec/configure



# spanning-tree mst port-priority

spanning-tree mst <mst-id> port-priority <port-prio> | no spanning-tree mst <mst-id> port-priority [ <port-prio> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
<i>mst-id</i>	MST instance list, example 0,2-4,6,8-12
port-priority	Change an interface's spanning tree port priority
<i>port-prio</i>	port priority in increments of 32

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

## spanning-tree mst cost

spanning-tree mst <mst-id> cost <port-cost> | no spanning-tree mst <mst-id> cost [ <port-cost> ]

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
<i>mst-id</i>	MST instance list, example 0,2-4,6,8-12
cost	Change an interface's spanning tree port path cost
<i>port-cost</i>	port path cost

### Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

## spanning-tree mst cost auto

[no] spanning-tree mst <mst-id> cost auto

### Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
<i>mst-id</i>	MST instance list, example 0,2-4,6,8-12
cost	Change an interface's spanning tree port path cost
auto	Determine cost based on media speed of this interface

### Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree mst configuration

spanning-tree mst configuration

## Syntax Description

spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
configuration	Enter MST configuration submenu

## Command Mode

- /exec/configure

# spanning-tree mst configuration

[no] spanning-tree mst configuration

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
configuration	Enter MST configuration submode

## Command Mode

- /exec/configure

## spanning-tree mst forward-time

spanning-tree mst forward-time <fwd-time> | no spanning-tree mst forward-time [ <fwd-time> ]

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
forward-time	Set the forward delay for the spanning tree
<i>fwd-time</i>	number of seconds for the forward delay timer

### Command Mode

- /exec/configure

# spanning-tree mst hello-time

spanning-tree mst hello-time <hello-time-val> | no spanning-tree mst hello-time [ <hello-time-val> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
hello-time	Set the hello interval for the spanning tree
<i>hello-time-val</i>	number of seconds between generation of config bpdu

## Command Mode

- /exec/configure

## spanning-tree mst max-age

spanning-tree mst max-age <max-age-val> | no spanning-tree mst max-age [ <max-age-val> ]

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
max-age	Set the max age interval for the spanning tree
<i>max-age-val</i>	maximum number of seconds the information in a bpdu is valid

### Command Mode

- /exec/configure



## spanning-tree mst max-hops

spanning-tree mst max-hops <max-hops-val> | no spanning-tree mst max-hops [ <max-hops-val> ]

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
max-hops	Set the max hops value for the spanning tree
<i>max-hops-val</i>	maximum number of hops a BPDU is valid

### Command Mode

- /exec/configure

# spanning-tree mst pre-standard

[no] spanning-tree mst pre-standard

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
pre-standard	Force pre-standard MST BPDU transmission on port

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

## spanning-tree mst simulate pvst

[no] spanning-tree mst simulate pvst [ <simpvst-disable> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
simulate	Enable spanning tree simulation
pvst	Enable PVST simulation
<i>simpvst-disable</i>	(Optional) Disable PVST simulation on this interface

### Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree mst simulate pvst global

[no] spanning-tree mst simulate pvst global

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
simulate	Enable spanning tree simulation
pvst	Enable PVST simulation
global	Enable PVST Simulation by default on all ports

## Command Mode

- /exec/configure

# spanning-tree pathcost method

spanning-tree pathcost method <method-val> | no spanning-tree pathcost method [ <method-val> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
pathcost	Spanning tree pathcost options
method	Method to calculate default port path cost
<i>method-val</i>	Method to calculate default port path cost

## Command Mode

- /exec/configure

## spanning-tree port type

spanning-tree port type <port-type> | no spanning-tree port type [ <port-type> ]

### Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
<i>port-type</i>	Specify a port type for spanning tree protocol use

### Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree port type edge bpdudfilter default

[no] spanning-tree port type edge bpdudfilter default

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
bpdudfilter	Enable edge port (portfast) bpdudfilter on this switch
default	Enable bpdudfilter by default on all edge (portfast) ports

## Command Mode

- /exec/configure

## spanning-tree port type edge bpduguard default

[no] spanning-tree port type edge bpduguard default

### Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
bpduguard	Enable edge port (portfast) bpduguard on this switch
default	Enable bpduguard by default on all edge (portfast) ports

### Command Mode

- /exec/configure



# spanning-tree port type edge default

[no] spanning-tree port type edge default

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
default	Select edge port type by default on all access ports

## Command Mode

- /exec/configure

# spanning-tree port type edge trunk

spanning-tree port type edge trunk | no spanning-tree port type edge trunk

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
trunk	Consider the interface as edge port (enable portfast) even in trunk mode

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree port type network default

[no] spanning-tree port type network default

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
network	Consider the interface as inter-switch link
default	Select network port type by default on all ports

## Command Mode

- /exec/configure

# spanning-tree portfast

spanning-tree portfast [ <port-portfast> ] | no spanning-tree portfast [ <port-portfast> ]

## Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
<i>port-portfast</i>	(Optional) Enable an interface to move directly to fwd on link up

## Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

# spanning-tree portfast bpdufilter default

[no] spanning-tree portfast bpdufilter default

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
bpdufilter	Enable portfast bpdu filter on this switch
default	Enable bdpu filter by default on all portfast ports

## Command Mode

- /exec/configure

# spanning-tree portfast bpduguard default

[no] spanning-tree portfast bpduguard default

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
bpduguard	Enable portfast bpdu guard on this switch
default	Enable bdpu guard by default on all portfast ports

## Command Mode

- /exec/configure

# spanning-tree portfast default

[no] spanning-tree portfast default

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
default	Enable portfast by default on all access ports

## Command Mode

- /exec/configure

# spanning-tree pseudo-information

spanning-tree pseudo-information

## Syntax Description

spanning-tree	Spanning Tree Subsystem
pseudo-information	configure spanning tree pseudo information

## Command Mode

- /exec/configure



# spanning-tree vlan

[no] spanning-tree vlan <vlan-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11

## Command Mode

- /exec/configure

# speed-group

speed-group <gspeed\_val> | no speed-group [ <gspeed\_val> ]

## Syntax Description

no	Negate a command or set its defaults
speed-group	port group speed
<i>gspeed_val</i>	Interface port speed

## Command Mode

- /exec/configure/if-eth-base

# speed

[no] speed <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
speed	Set the transmit and receive speeds
<i>i0</i>	Transmit and receive speeds

## Command Mode

- /exec/configure/com1

# speed

speed { <speed\_val> | auto [ 100 [ 1000 ] ] } | no speed [ { <speed\_val> | auto [ 100 [ 1000 ] ] } ]

## Syntax Description

no	Negate a command or set its defaults
speed	Enter the port speed
<i>speed_val</i>	Interface port speed
auto	auto negotiate speed
100	(Optional) 100 Mbps speed
1000	(Optional) 1000 Mbps speed

## Command Mode

- /exec/configure/if-mgmt-ether

# speed

[no] speed <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
speed	Set the transmit and receive speeds
<i>i0</i>	Transmit and receive speeds

## Command Mode

- /exec/configure/console

# speed auto

speed auto

## Syntax Description

speed	Enter the port speed
auto	auto negotiate speed

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# speed auto 100

speed auto 100

## Syntax Description

speed	Enter the port speed
auto	auto negotiate speed
100	100 Mbps speed

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# speed auto 100 1000

speed auto 100 1000

## Syntax Description

speed	Enter the port speed
auto	auto negotiate speed
100	100 Mbps speed
1000	1000 Mbps speed

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel



# spf-interval

spf-interval <max-wait> [ <initial-wait> <second-wait> ] | no spf-interval <max-wait> [ <initial-wait> <second-wait> ]

## Syntax Description

no	Negate a command or set its defaults
spf-interval	Configure SPF interval
<i>max-wait</i>	Maximum wait between trigger and SPF computation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and SPF computation (milli-secs)
<i>second-wait</i>	(Optional) Second wait between trigger and SPF computation (milli-secs)

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# spf-interval

spf-interval <level> <max-wait> [ <initial-wait> <second-wait> ] | no spf-interval <level> <max-wait> [ <initial-wait> <second-wait> ]

## Syntax Description

no	Negate a command or set its defaults
spf-interval	Configure SPF interval
<i>level</i>	IS-IS level
<i>max-wait</i>	Maximum wait between trigger and SPF computation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and SPF computation (milli-secs)
<i>second-wait</i>	(Optional) Second wait between trigger and SPF computation (milli-secs)

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

# spf mode incremental

[no] spf mode incremental

## Syntax Description

no	(Optional) Negate a command or set its defaults
spf	Configure route computation related settings
mode	Set the mode of spf computation
incremental	If possible, recompute only parts of the SPT

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# spf mode incremental

[no] spf mode incremental

## Syntax Description

no	(Optional) Negate a command or set its defaults
spf	Configure route computation related settings
mode	Set the mode of spf computation
incremental	If possible, recompute only parts of the SPT

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

# sprom recover backplane

sprom recover backplane <i0>

## Syntax Description

sprom	set SPROM contents should be done very carefully
recover	SPROM recovery
backplane	set backplane module sprom contents
<i>i0</i>	please enter instance of backplane sprom

## Command Mode

- /exec

# ssh

```
{ ssh <s0> [ [ vrf { <vrf-name> | <vrf-known-name> } ] [ source-ip <s1> ] ] [ source-interface <intf> ] ] }
| { ssh <s0> [ [ source-ip <s1> ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] [ source-interface <intf> ] ]
}
```

## Syntax Description

ssh	SSH to another system
vrf	(Optional) Display per-VRF information
source-ip	(Optional) ip address to bind
source-interface	(Optional) Select source interface
s0	Enter hostname or user@hostname
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
s1	(Optional) Enter source ip address to bind
intf	(Optional)

## Command Mode

- /exec

# ssh6

```
{ ssh6 <s0> [ [ [ vrf { <vrf-name> | <vrf-known-name> } ] [ source-ip <s2> ] [ interface <s1> ] ] ] [
source-interface <intf> ] ] } | { ssh6 <s0> [ [ [ source-ip <s2> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [
interface <s1> ] ] ] [ source-interface <intf> ] ] }
```

## Syntax Description

ssh6	SSH to another system using IPv6 addressing
vrf	(Optional) vrf to use
source-ip	(Optional) ip address to bind
source-interface	(Optional) Select source interface
interface	(Optional) interface to bind
s0	Enter hostname or user@hostname
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
s2	(Optional) Enter source ip address to bind
s1	(Optional) Enter interface to bind
intf	(Optional)

## Command Mode

- /exec

# ssh key

```
{ ssh key { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] } | no ssh key [ { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] } ] }
```

## Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
key	Generate SSH Key
dsa	Generate DSA keys
force	(Optional) Force the generation of keys even if previous ones are present
rsa	Generate RSA keys
<i>i0</i>	(Optional) Enter number of bits (in multiples of 8)
<i>oldrange</i>	(Optional) Enter number of bits
force	(Optional) Force the generation of keys even if previous ones are present
force	(Optional) Force the generation of keys even if previous ones are present

## Command Mode

- /exec/configure



# ssh login-attempts

```
{ { ssh login-attempts <d0> } | { no ssh login-attempts [ <d0> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
login-attempts	Set maximum login attempts from ssh
<i>d0</i>	Specify max-attempt number

## Command Mode

- /exec/configure/

# ssh server enable

[no] ssh server enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
ssh	Configure SSH parameters
server	Configure SSH Server parameters
enable	Enable SSH server

## Command Mode

- /exec/configure

# standby

[no] standby [ ip <ip-addr-first> | IPv6 <ip-addrv6-first> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
standby	Standby node
ip	(Optional) ip address for standby node
<i>ip-addr-first</i>	(Optional) ITD node IPv4 address
IPv6	(Optional) IPv6 address

## Command Mode

- /exec/configure/itd-dg-node

# start

start

## Syntax Description

start	Start Trigger
-------	---------------

## Command Mode

- /exec/elanms/se13

# start

start

## Syntax Description

start	Start Trigger
-------	---------------

## Command Mode

- /exec/elamns/sel4

# start

start

## Syntax Description

start	Start Trigger
-------	---------------

## Command Mode

- /exec/elamns/se15

# start

start

## Syntax Description

start	Start Trigger
-------	---------------

## Command Mode

- /exec/elamns/sel6

# start

start

## Syntax Description

start	Start Trigger
-------	---------------

## Command Mode

- /exec/elanms/se17



# start

start

## Syntax Description

start	Start Trigger
-------	---------------

## Command Mode

- /exec/elamns/outse0

# start

start

## Syntax Description

start	Start Trigger
-------	---------------

## Command Mode

- /exec/eramns/outse15

# state enabled

[no] state enabled

## Syntax Description

no	(Optional) Negate a command or set its defaults
state	Port-profile state
enabled	Enable/ disable the port-profile

## Command Mode

- /exec/configure/port-profile

# stateful-ha

[no] stateful-ha [ pss-partial-lsp ]

## Syntax Description

stateful-ha	Configure RSVP stateful HA
pss-partial-lsp	(Optional) Enable PSS of partial lsp

## Command Mode

- /exec/configure/ip-rsvp

# statistics

[no] statistics

## Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

## Command Mode

- /exec/configure/ipacl /exec/configure/vacl

# statistics

[no] statistics

## Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

## Command Mode

- /exec/configure/ipv6acl

# statistics

[no] statistics

## Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

## Command Mode

- /exec/configure/macac1

# statistics per-entry

[no] statistics per-entry

## Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

## Command Mode

- /exec/configure/ipacl /exec/configure/vacl



## statistics per-entry

[no] statistics per-entry

### Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

### Command Mode

- /exec/configure/ipv6acl

# statistics per-entry

[no] statistics per-entry

## Syntax Description

no	(Optional) Negate a command or set its defaults
----	-------------------------------------------------

## Command Mode

- /exec/configure/macac1

# status

status

## Syntax Description

status	Status of Trigger
--------	-------------------

## Command Mode

- /exec/elamns/sel3

# status

status

## Syntax Description

status	Status of Trigger
--------	-------------------

## Command Mode

- /exec/eramns/se14

# status

status

## Syntax Description

status	Status of Trigger
--------	-------------------

## Command Mode

- /exec/elamns/sel5

# status

status

## Syntax Description

status	Status of Trigger
--------	-------------------

## Command Mode

- /exec/elanms/se16

# status

status

## Syntax Description

status	Status of Trigger
--------	-------------------

## Command Mode

- /exec/elamns/sel7

# status

status

## Syntax Description

status	Status of Trigger
--------	-------------------

## Command Mode

- /exec/elanms/outse10



# status

status

## Syntax Description

status	Status of Trigger
--------	-------------------

## Command Mode

- /exec/elamns/outsel5

# stopbits

[no] stopbits { 1 | 2 }

## Syntax Description

no	(Optional) Negate a command or set its defaults
stopbits	Set async line stopbits
1	One stop bit
2	Two stop bits

## Command Mode

- /exec/configure/com1

# stopbits

[no] stopbits { 1 }

## Syntax Description

no	(Optional) Negate a command or set its defaults
stopbits	Set async line stopbits
1	One stop bit

## Command Mode

- /exec/configure/console

# storm-control

```
storm-control { { { broadcast blevel | multicast mlevel | unicast ulevel } <level> } | action { shutdown | trap } } | no storm-control { { { broadcast blevel | multicast mlevel | unicast ulevel } [ <level> ] } | action [ shutdown | trap ] }
```

## Syntax Description

no	Negate a command or set its defaults
storm-control	Configure Interface storm control
broadcast	Broadcast address storm control
multicast	Multicast address storm control
unicast	Unicast address storm control
blevel	Set allowed broadcast traffic level on this interface
mlevel	Set allowed multicast traffic level on this interface
ulevel	Set allowed unicast traffic level on this interface
<i>level</i>	Enter the storm suppression level
action	Action on storm control
shutdown	Shutdown (Err-Disable) port
trap	Generate SNMP trap

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

# streetaddress

{ streetaddress <line> | no streetaddress }

## Syntax Description

no	Negate a command or set its defaults
streetaddress	Configure replacement part shipping address.
<i>line</i>	Provide street address (white spaces are fine)

## Command Mode

- /exec/configure/callhome

# stub

```
{ { [ eigrp ] stub [ { [ direct | connected | static | summary ] [ redistributed ] } + [ leak-map <leak-map> ] | {
receive-only } ] } } | { no [ eigrp ] stub [ { [ direct | connected | static | summary ] [ redistributed ] } + [ leak-map
<leak-map> ] | { receive-only } ] } }
```

## Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
stub	Set IP-EIGRP as stubbed router
direct	(Optional) Do advertise connected routes
connected	(Optional) Do advertise connected routes
static	(Optional) Do advertise static routes
summary	(Optional) Do advertise summary routes
redistributed	(Optional) Do advertise redistributed routes
leak-map	(Optional) Allow dynamic prefixes based on the leak-map
<i>leak-map</i>	(Optional) leak-map name
receive-only	(Optional) Set IP-EIGRP as receive only neighbor

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# summary-address

[no] summary-address { <ip-dest> <ip-mask> | <ip-prefix> } [ tag <tagval> | not-advertise ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
summary-address	Configure route summarization for redistribution
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
tag	(Optional) 32-bit tag value
<i>tagval</i>	(Optional) 32-bit tag value
not-advertise	(Optional) Suppress advertising the specified summary

## Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## summary-address

[no] summary-address <ipv6-prefix> [ tag <tagval> | not-advertise ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
summary-address	Configure route summarization for redistribution
tag	(Optional) 32-bit tag value
<i>tagval</i>	(Optional) 32-bit tag value
not-advertise	(Optional) Suppress advertising the specified summary

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6



# summary-address

summary-address { <ip-addr> <ip-mask> | <ip-prefix> } <level> | no summary-address { <ip-addr> <ip-mask> | <ip-prefix> } [ <level> ]

## Syntax Description

no	Negate a command or set its defaults
summary-address	Configure IP address summaries
<i>ip-addr</i>	IP summary address
<i>ip-mask</i>	IP summary mask
<i>ip-prefix</i>	IP summary prefix
<i>level</i>	Level to summarize into

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

# summary-address

summary-address <ipv6-prefix> <level> | no summary-address <ipv6-prefix> [ <level> ]

## Syntax Description

no	Negate a command or set its defaults
summary-address	Configure IP address summaries
<i>level</i>	Level to summarize into

## Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

# suppress-arp KEYWORD no Negate a command or set its defaults KEYWORD suppress-arp Enable ARP suppression dynamic \$hmm

[no] suppress-arp KEYWORD no Negate a command or set its defaults KEYWORD suppress-arp Enable ARP suppression dynamic \$hmm

## Command Mode

- /exec/configure/if-nve/vni

# suppress-fib-pending

[no] suppress-fib-pending

## Syntax Description

no	(Optional) Negate a command or set its defaults
suppress-fib-pending	Advertise only routes that are programmed in hardware to peers

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

# suppress-fib-pending

[no] suppress-fib-pending

## Syntax Description

no	(Optional) Negate a command or set its defaults
suppress-fib-pending	Advertise only routes that are programmed in hardware to peers

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# suppress-inactive

[ no | default ] suppress-inactive

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
suppress-inactive	Advertise only active routes to peers

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

# suppress-inactive

[ no | default ] suppress-inactive

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
suppress-inactive	Advertise only active routes to peer

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

# switch-id

switch-id <asid> | no switch-id

## Syntax Description

no	Negate a command or set its defaults
switch-id	Configure Switch ID
<i>asid</i>	Anycast Switch ID

## Command Mode

- /exec/configure/anycast



# switch-priority

{ switch-priority <i0> | no switch-priority }

## Syntax Description

no	Negate a command or set its defaults
switch-priority	Priority of the switch(0-highest 7-lowest)
<i>i0</i>	Priority of the switch(0-highest 7-lowest)

## Command Mode

- /exec/configure/callhome

## switch-scope controller l2-vxlan

{ switch-scope controller l2-vxlan <controller-id> | no switch-scope controller l2-vxlan }

### Syntax Description

no	Negate a command or set its defaults
switch-scope	switch-scope
controller	Controller command
l2-vxlan	l2-vxlan
<i>controller-id</i>	

### Command Mode

- /exec

# switchback

switchback

## Syntax Description

switchback	switchback to default vdc
------------	---------------------------

## Command Mode

- /exec

# switching-mode fabric-speed 40g

[no] switching-mode fabric-speed 40g

## Syntax Description

no	(Optional) Negate a command or set its defaults
switching-mode	Configure the operating switching-mode of asics
fabric-speed	fabric speed settings
40g	fabric speed at 40g instead of 42g

## Command Mode

- /exec/configure

# switching-mode store-forward

[no] switching-mode store-forward

## Syntax Description

no	(Optional) Negate a command or set its defaults
switching-mode	Configure the operating switching-mode of asics
store-forward	Operate in store and forward mode

## Command Mode

- /exec/configure

# switchport

switchport

## Syntax Description

switchport	Configure switchport parameters
------------	---------------------------------

## Command Mode

- /exec/configure/if-eth-non-member /exec/configure/if-ethernet-all /exec/configure/if-port-channel

# switchport

[no] switchport

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-non-member /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-port-channel

## switchport autostate exclude

```
switchport autostate exclude [ vlan { <exclude-vlans> | add <add-vlans> | except <except-vlans> | remove
<remove-vlans> | all | none } ] | no switchport autostate exclude [ dummy ] [ vlan { <exclude-vlans> | add
<add-vlans> } ]
```

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
autostate	Include or exclude this port from vlan link up calculation
exclude	Exclude this port from vlan link up calculation
vlan	(Optional) VLAN Id
<i>exclude-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
add	(Optional) add VLANs to except list
<i>add-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
except	(Optional) List of VLANs to excepted from auto-state exclude
<i>except-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
remove	(Optional) remove VLANs from except list
<i>remove-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
all	(Optional) Exclude all VLANs
none	(Optional) Exclude no VLANs
dummy	(Optional) Hidden Keyword

### Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-gig-ether /exec/configure/if-port-channel-range /exec/configure/if-eth-port-channel-switch /exec/configure/if-remote-ethernet-switch TIMEOUT 120



# switchport block

switchport block { unicast | multicast } | no switchport block { unicast | multicast }

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
block	Block specified outbound traffic for all VLANs
unicast	Block unknown unicast traffic
multicast	Block flood multicast traffic

## Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

## switchport dot1q ethertype

switchport dot1q ethertype { 0x8100 | 0x88A8 | 0x9100 | <any> } | no switchport dot1q ethertype [ <any> ]

### Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
dot1q	Configure dot1q EtherType value
ethertype	Configure dot1q EtherType value
0x8100	Default EtherType for 802.1q frames
0x88A8	EtherType for 802.1ad double tagged frames
0x9100	EtherType for QinQ frames
<i>any</i>	Any EtherType

### Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all

# switchport dot1q ethertype

switchport dot1q ethertype { 0x8100 | 0x88A8 | 0x9100 | <any> } | no switchport dot1q ethertype [ <any> ]

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
dot1q	Configure dot1q EtherType value
ethertype	Configure dot1q EtherType value
0x8100	Default EtherType for 802.1q frames
0x88A8	EtherType for 802.1ad double tagged frames
0x9100	EtherType for QinQ frames
any	Any EtherType

## Command Mode

- /exec/configure/if-eth-port-channel-switch

# switchport host

[no] switchport host

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
host	Set port host

## Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-switch  
/exec/configure/if-ethernet-switch-m /exec/configure/if-ethernet-all

# switchport isolated

[no] switchport isolated

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
isolated	Disable loop-free detection.

## Command Mode

- /exec/configure/if-eth-12-non-member /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

# switchport mode

{ switchport mode { <port\_mode> } | no switchport mode }

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
<i>port_mode</i>	port mode

## Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

# switchport mode

{ switchport mode { <port\_mode> } | no switchport mode }

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
<i>port_mode</i>	port mode

## Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch

# switchport mode fabricpath

[no] switchport mode fabricpath

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
fabricpath	port mode fabricpath

## Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all  
/exec/configure/if-eth-port-channel-switch



# switchport mode private-vlan

{ switchport mode private-vlan <pvlan\_mode> } | { no switchport mode private-vlan [ <pvlan\_mode> ] }

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
private-vlan	Set the private VLAN configuration
<i>pvlan_mode</i>	private vlan mode

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-remote-ethernet-switch

# switchport mode private-vlan trunk

```
{ switchport mode private-vlan trunk <trunk_mode> } | { no switchport mode private-vlan trunk [
<trunk_mode> ] }
```

## Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
private-vlan	Set the private VLAN configuration
trunk	private-vlan trunk
<i>trunk_mode</i>	private vlan trunk mode

## Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-remote-ethernet-switch

# switchport port-security

[no] switchport port-security

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command

## Command Mode

- /exec/configure/if-switching

## switchport port-security aging time

[no] switchport port-security aging time <value>

### Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
aging	Port-security aging commands
time	Port-security aging time
<i>value</i>	Aging time in minutes. Enter a value between 1 and 1440

### Command Mode

- /exec/configure/if-switching

## switchport port-security aging type

[no] switchport port-security aging type { absolute | inactivity }

### Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
aging	Port-security aging commands
type	Type of timers
absolute	Absolute Timer
inactivity	Inactivity Timer

### Command Mode

- /exec/configure/if-switching

## switchport port-security mac-address

[no] switchport port-security mac-address <mac-address> [ vlan <vlanid> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
mac-address	MAC address
<i>mac-address</i>	48 bit mac address format HHHH.HHHH.HHHH
vlan	(Optional) Vlan on which the mac address should be secured
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

### Command Mode

- /exec/configure/if-switching

# switchport port-security mac-address sticky

[no] switchport port-security mac-address sticky

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
mac-address	MAC address
sticky	Sticky MAC address

## Command Mode

- /exec/configure/if-switching

## switchport port-security maximum

[no] switchport port-security maximum <value> [ vlan <vlanid> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
maximum	Max secure addresses
<i>value</i>	Maximum addresses 1 to 1025
vlan	(Optional) Vlan on which the mac address should be secured
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

### Command Mode

- /exec/configure/if-switching



# switchport port-security violation

[no] switchport port-security violation { protect | restrict | shutdown }

## Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
violation	Security violation mode
protect	security violation protect mode
restrict	security violation restrict mode
shutdown	security violation shutdown mode

## Command Mode

- /exec/configure/if-switching

## switchport private-vlan association trunk

{ switchport private-vlan association trunk <primary-vlan> <secondary-vlan> } | { no switchport private-vlan association trunk [ <primary-vlan> [ <secondary-vlan> ] ] }

### Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
association	private vlan trunk association
trunk	private-vlan trunk secondary
no	Negate a command or set its defaults
<i>primary-vlan</i>	Primary VLAN ID
<i>secondary-vlan</i>	Secondary VLAN ID

### Command Mode

- /exec/configure/if-switching

# switchport private-vlan host-association

{ switchport private-vlan host-association <primary-vlan> <secondary-vlan> } | { no switchport private-vlan host-association }

## Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
host-association	Set the private VLAN host association
no	Negate a command or set its defaults
<i>primary-vlan</i>	Primary VLAN ID
<i>secondary-vlan</i>	Secondary VLAN ID

## Command Mode

- /exec/configure/if-switching

## switchport private-vlan mapping

```
{ switchport private-vlan mapping <primary-vlan> [ { add | remove } ] <secondary_vlans> } | { no switchport private-vlan mapping [ <primary-vlan> <secondary_vlans> ] }
```

### Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
mapping	Set the private VLAN access/trunk promiscuous mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>primary-vlan</i>	Primary private VLAN
<i>secondary_vlans</i>	Secondary VLAN IDs

### Command Mode

- /exec/configure/if-switching

# switchport private-vlan mapping trunk

```
{ switchport private-vlan mapping trunk <primary-vlan> [ { add | remove } ] <secondary_vlans> } | { no
switchport private-vlan mapping trunk [ <primary-vlan> [ <secondary_vlans> ] ] }
```

## Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
mapping	Set the private VLAN access/trunk promiscuous mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
trunk	private-vlan trunk promiscuous
<i>primary-vlan</i>	Primary private VLAN
<i>secondary_vlans</i>	Secondary VLAN IDs

## Command Mode

- /exec/configure/if-switching

## switchport private-vlan trunk allowed vlan

switchport private-vlan trunk allowed vlan { <allowed-vlans> | add <add-vlans> | except <except-vlans> | remove <remove-vlans> | all | none } | no switchport private-vlan trunk allowed vlan <no-allowed-vlans>

### Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
trunk	Set the private vlan trunking configuration
allowed	Set allowed VLANs when interface is in private-vlan trunking mode
vlan	VLAN status
<i>allowed-vlans</i>	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
add	add VLANs to the current list
<i>add-vlans</i>	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
except	all VLANs except the following
<i>except-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode
remove	remove VLANs from the current list
<i>remove-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode
all	all VLANs
none	no VLANs
no	Negate a command or set its defaults
<i>no-allowed-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode

### Command Mode

- /exec/configure/if-switching

# switchport private-vlan trunk native vlan

{ switchport private-vlan trunk native vlan <native-vlan> } | { no switchport private-vlan trunk native vlan }

## Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
no	Negate a command or set its defaults
trunk	Set the private vlan trunking configuration
native	Set the private vlan trunking native configuration
vlan	VLAN status
<i>native-vlan</i>	native vlan id

## Command Mode

- /exec/configure/if-switching

# switchto vdc

```
switchto vdc <e-vdc2> [ force ] [ bypass ] [ __readonly__ ]
```

## Syntax Description

switchto	Goto specific Virtual Device Context <vdc-name>   <vdc-id>
vdc	Manage Virtual Device Context
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
<code>__readonly__</code>	(Optional) Read Only
force	(Optional) force
bypass	(Optional) Enter Virtual Device Context <vdc-id>

## Command Mode

- /exec/



# sync-peers destination

sync-peers destination <dst-ip> [ source <src-ip> | vrf <vrf-name> ] + | no sync-peers destination [ <dst-ip> [ source <src-ip> ] ]

## Syntax Description

no	Negate a command or set its defaults
sync-peers	Specify peers to whom configuration needs to be synced
destination	Specify destination ip address of peer switch
<i>dst-ip</i>	IPv4 address (A.B.C.D) of destination
source	(Optional) Source interface for sending out configs
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used default/management
<i>vrf-name</i>	(Optional) vrf to be used

## Command Mode

- /exec/configure

# sync-snmp-password

sync-snmp-password <s0>

## Syntax Description

sync-snmp-password	sync snmp password
<i>s0</i>	password

## Command Mode

- /exec

# sync-snmp-password

sync-snmp-password <s0> <s1> <s2>

## Syntax Description

sync-snmp-password	sync snmp password
<i>s0</i>	password
<i>s1</i>	user
<i>s2</i>	snmp client host

## Command Mode

- /exec

# sync-snmp-password

[no] sync-snmp-password <*s0*>

## Syntax Description

no	(Optional) Negate a command or set its defaults
sync-snmp-password	sync snmp password
<i>s0</i>	password

## Command Mode

- /exec/configure

# system-mac

system-mac <sysmac> | no system-mac

## Syntax Description

no	Negate a command or set its defaults
system-mac	Configure system mac address
<i>sysmac</i>	specify system mac address

## Command Mode

- /exec/configure/vpc-domain

# system-priority

system-priority <syspri> | no system-priority <syspri>

## Syntax Description

no	Negate a command or set its defaults
system-priority	Configure system priority
<i>syspri</i>	specify system priority

## Command Mode

- /exec/configure/vpc-domain

# system

system [ no ] auto-collect tech-support [ timeout <time> ]

## Syntax Description

system	System management commands
no	(Optional) Negate a command or set its defaults
auto-collect	Auto collection of information
tech-support	Collect tech-support in case of service causing supervisor reset
timeout	(Optional) Collect tech-support timeout
<i>time</i>	(Optional) Timeout in seconds

## Command Mode

- /exec

## system cores

```
{ system cores { { <uri0> } | { <uri1> vrf <vrf-known-name> } } | no system cores [ { { <uri0> } | { <uri1> vrf <vrf-known-name> } } ] }
```

### Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
cores	Copy cores to destination
<i>uri0</i>	Select destination filesystem
<i>uri1</i>	Select destination filesystem
vrf	Enter the vrf name
<i>vrf-known-name</i>	VRF name

### Command Mode

- /exec/configure



# system cores retain

[no] system cores retain

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
cores	Copy cores to destination
retain	keep the cores

## Command Mode

- /exec/configure

## system default interface

```
{ system default interface { congestion { timeout <i0> mode { core | edge } | mode { core | edge } } | pause
{ timeout <i1> mode1 { core | edge } | mode1 { core | edge } } } | no system default interface { congestion {
timeout <i0> mode { core | edge } | mode { core | edge } } | pause { timeout <i1> mode1 { core | edge } |
mode1 { core | edge } } } }
```

### Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
interface	Configure system default interface values
congestion	Configure system timeout values for congestion drop
pause	Configure system timeout values for pause frame
timeout	Configure system timeout values
<i>i0</i>	Configure number of milliseconds
<i>i1</i>	Configure number of milliseconds
mode	Configure mode
mode1	Configure mode
core	Enter the port type
edge	Enter the port type

### Command Mode

- /exec/configure

# system default switchport

{ system default switchport }

## Syntax Description

system	System configuration commands
default	Configure system default values
switchport	Configure switchport

## Command Mode

- /exec/configure

# system default switchport fabricpath

{ system default switchport fabricpath | no system default switchport fabricpath }

## Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
switchport	Configure switchport
fabricpath	Configure default port mode as fabricpath

## Command Mode

- /exec/configure

# system default switchport shutdown

{ system default switchport shutdown }

## Syntax Description

system	System configuration commands
default	Configure system default values
switchport	Configure switchport
shutdown	Configure admin state

## Command Mode

- /exec/configure

# system fabric-mode full-rate

[no] system fabric-mode full-rate

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
fabric-mode	Configure the operating mode of the fabrics
full-rate	Operates fabrics in Full Rate Mode

## Command Mode

- /exec/configure

# system fast-reload stabilization-timer

system fast-reload stabilization-timer <time>

## Syntax Description

system	System management commands
fast-reload	fast-reload software
stabilization-timer	Network stabilization time in seconds before fast-reload can be executed after the previous reload
<i>time</i>	time in secs

## Command Mode

- /exec/configure

# system hap-reset

system hap-reset

## Syntax Description

system	System management commands
hap-reset	enables resetting of local or remote sup on ha failures

## Command Mode

- /exec



# system health check bootflash

system health check bootflash [ fix-errors ]

## Syntax Description

system	System management commands
health	system health exec commands
check	run consistency check on compact flash
bootflash	check internal bootflash
fix-errors	(Optional) fix bootflash errors

## Command Mode

- /exec

# system heartbeat

system heartbeat

## Syntax Description

system	System management commands
heartbeat	enables heartbeat

## Command Mode

- /exec

# system high-multicast-priority

[no] system high-multicast-priority

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
high-multicast-priority	high priority to multicast

## Command Mode

- /exec/configure

# system inband queuing

```
[no] system inband queuing [ { [ round-robin ] [ bpdu weight <weight-val> ] [ q0 weight <weight-val> ] [ q1 weight <weight-val> ] [ q0 no-drop ] [ q1 no-drop ] [ pick_packets ] [ bpdu map <q-index> ] [ arp map <q-index> ] [ q0 map <q-index> ] [ q1 map <q-index> ] } ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System-related show commands
inband	System Inband configuration
queuing	System Inband Queueing Algorithm
round-robin	(Optional) Simple Round-Robin
bpdu	(Optional) bpdu queue
arp	(Optional) arp queue
q0	(Optional) q0 queue (cos 4,5,6,7)
q1	(Optional) q1 queue (cos 0,1,2,3)
weight	(Optional) weight associated with the queue
no-drop	(Optional) set no drop option on queue
<i>weight-val</i>	(Optional) weights
pick_packets	(Optional) enable packet rx
map	(Optional) map to queue
<i>q-index</i>	(Optional) queue index

## Command Mode

- /exec/configure

# system inband queuing

system inband queuing { clear-pm-counters | clear-klm-counters | clear-all-counters | enable-timestamp | disable-timestamp }

## Syntax Description

system	System-related show commands
inband	System Inband configuration
queuing	System Inband Queuing Algorithm
clear-pm-counters	clear user space inband queue counters
clear-klm-counters	clear KLM VDC inband queue counters
clear-all-counters	clear all inband queue counters
enable-timestamp	enable timestamping in klm vdc
disable-timestamp	disable timestamping in klm vdc

## Command Mode

- /exec

# system interface shutdown

[no] system interface shutdown [ exclude fex-fabric ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
interface	Configure system interface config
shutdown	Configure interface shutdown
exclude	(Optional) exclude
fex-fabric	(Optional) fex-fabric

## Command Mode

- /exec/configure

# system internal aclmgr global lock

system internal aclmgr global lock <acquire-or-release> session <session\_id> [ pss-only ]

## Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
global	Global database lock
lock	Lock
<i>acquire-or-release</i>	
session	PPF Session id
<i>session_id</i>	PPF session id
pss-only	(Optional) Force the values to be set and written to PSS

## Command Mode

- /exec

# system internal aclmgr inject

system internal aclmgr inject <error-type> <err\_id>

## Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
inject	Inject error to state machine in next available event
<i>error-type</i>	Error type
<i>err_id</i>	Syserr id

## Command Mode

- /exec/configure



# system internal aclmgr remove policies interface

system internal aclmgr remove policies interface <ifname>

## Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
remove	Remove access-lists
policies	Policies
interface	Interface whose policies need to be removed
<i>ifname</i>	Interface name

## Command Mode

- /exec/configure

## system internal aclmgr vcache

```
system internal aclmgr vcache { { <add_or_rem> vlans <vlans> | reset } interface <ifname> | rebuild }
```

### Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
<i>add_or_rem</i>	Add or Remove vlan members to vlans
vcache	Vlan cache ut command, donot use this in production systems
vlans	Vlans which need to be added/removed from the interface
<i>vlans</i>	List of VLANs
reset	Reset all vlans on the interface
rebuild	Rebuild the vlan cache completely by requesting information from vlan manager
interface	Interface(s) which need to be added/removed/reset to/from vlans
<i>ifname</i>	Interface name list

### Command Mode

- /exec/configure

## system internal clis event-history

```
[no] system internal clis event-history { nvdb | client | errors | parser | ha | cli } size { <size_in_text> | <size_in_bytes> }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
internal	Commands for internal use
clis	cli server
event-history	Event history logs for clis
nvdb	Log of NVDB and PSS events
client	Log of client interaction events
errors	Log of errors
parser	Log of parser events
ha	Log of ha events
cli	Log of command events
size	Enter size
<i>size_in_text</i>	Buffer size
<i>size_in_bytes</i>	Enter an integer value for the event history buffer

### Command Mode

- /exec/configure

## system internal npacl event-history

```
[no] system internal npacl event-history { acl | ppf | cli | internal } size { <size_in_text> | <size_in_Kbytes>
}
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
system	System management commands
internal	Commands for internal use
npacl	Configure NPACL feature
event-history	event history
acl	acl policy history of npacl
ppf	ppf interaction history of npacl
cli	cli history of npacl
internal	internal of npacl
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

### Command Mode

- /exec

# system internal policy-resync module

system internal policy-resync module <module>

## Syntax Description

system	System management commands
internal	Commands for internal use
policy-resync	resync PPF policy
module	resync Module
<i>module</i>	Module number to resync

## Command Mode

- /exec

# system kernel-trace

system kernel-trace [ enable | disable ]

## Syntax Description

system	system management commands
kernel-trace	kernel tracing
enable	(Optional) enables kernel tracing
disable	(Optional) disables kernel tracing

## Command Mode

- /exec

# system kgdb

system kgdb

## Syntax Description

system	System management commands
kgdb	enables kgdb

## Command Mode

- /exec

## system memory-thresholds minor

[no] system memory-thresholds minor <minor> severe <severe> critical <crit>

### Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
memory-thresholds	Set memory thresholds on the card
minor	enter minor threshold
<i>minor</i>	please enter minor memory threshold as % memory
severe	enter severe treshold
<i>severe</i>	please enter severe memory threshold as % memory
critical	enter critical treshold
<i>crit</i>	please enter critical memory threshold as % memory

### Command Mode

- /exec/configure



# system minlife

system minlife <i0>

## Syntax Description

system	System management commands
minlife	Set system minlife (in seconds)
<i>i0</i>	Set minlife

## Command Mode

- /exec

# system mode maintenance

[no] system mode maintenance [ dont-generate-profile ] | system mode maintenance [ dont-generate-profile | shutdown ]

## Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
dont-generate-profile	(Optional) do not generate the maintenance/normal-mode profile
shutdown	(Optional) issue shutdown instead of isolate (default)

## Command Mode

- /exec/configure

# system mode maintenance on-reload reset-reason

[no] system mode maintenance on-reload reset-reason <reason>

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
on-reload	on reload maintenance mode configuration
reset-reason	reset reason
<i>reason</i>	

## Command Mode

- /exec/configure

# system mode maintenance timeout

[no] system mode maintenance timeout <timer-value>

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
timeout	restart maintenance mode timer with a new value
<i>timer-value</i>	timer value in minutes

## Command Mode

- /exec/configure

# system module failure-action shutdown

[no] system module failure-action shutdown

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	system Internal Information
module	module commands
failure-action	Configure module action on failure
shutdown	action on failure - shutdown

## Command Mode

- /exec/configure

# system no hap-reset

system no hap-reset

## Syntax Description

system	System management commands
no	Negate a command or set its defaults
hap-reset	enables resetting of local or remote sup on ha failures

## Command Mode

- /exec

# system no heartbeat

system no heartbeat

## Syntax Description

system	System management commands
no	Negate a command or set its defaults
heartbeat	enables heartbeat

## Command Mode

- /exec

# system no kgdb

system no kgdb

## Syntax Description

system	System management commands
no	Negate a command or set its defaults
kgdb	enables kgdb

## Command Mode

- /exec



# system no standby manual-boot

system no standby manual-boot

## Syntax Description

system	System management commands
no	Negate a command or set its defaults
standby	System standby manual boot
manual-boot	No action taken to force-download standby sup

## Command Mode

- /exec

# system no statistics

system no statistics

## Syntax Description

system	System management commands
no	Negate a command or set its defaults
statistics	disable the sysmgr statistics

## Command Mode

- /exec

# system no watchdog

system no watchdog

## Syntax Description

system	System management commands
no	Negate a command or set its defaults
watchdog	enables watchdog

## Command Mode

- /exec

# system no watchdog kgdb

system no watchdog kgdb

## Syntax Description

system	System management commands
no	Negate a command or set its defaults
watchdog	enables watchdog
kgdb	enter kgdb on watchdog failure

## Command Mode

- /exec

# system nve ipmc global index-size

system nve ipmc global index-size { <size> | default } | no system nve ipmc global index-size [ <size> ]

## Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
ipmc	Configure ipmc index size
global	Configure global ipmc size
index-size	Configure index size
<i>size</i>	ipmc allowed size
default	Default size is 3000

## Command Mode

- /exec/configure

# system offline

system offline

## Syntax Description

system	System management commands
offline	Go offline

## Command Mode

- /exec

# system pss shrink

system pss shrink

## Syntax Description

system	System management commands
pss	PSS commands
shrink	shrink pss files

## Command Mode

- /exec

# system qos

system qos

## Syntax Description

system	System management commands
qos	QoS parameters

## Command Mode

- /exec/configure



# system release mod-lock uuid

system release mod-lock uuid <uuid-hex> nodeid <nodeid-hex>

## Syntax Description

system	System management commands
release	release
mod-lock	module lock
uuid	uuid of the service holding the lock
<i>uuid-hex</i>	uuid
nodeid	node-id
<i>nodeid-hex</i>	nodeid

## Command Mode

- /exec

## system restart vdc

system restart vdc { <e-vdc2> | <vdc-id> } service name <s0>

### Syntax Description

system	System management commands
restart	Restart a service
vdc	VDC number
<i>e-vdc2</i>	Enter VDC <vdc-id>
<i>vdc-id</i>	vdc number
service	Service to be restarted
name	Name of a service
<i>s0</i>	Name of service

### Command Mode

- /exec/configure

# system routing unknown-unicast-flood

[no] system routing unknown-unicast-flood

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
routing	Layer-3 routing
unknown-unicast-flood	Hardware flood post-routed traffic on SVI if dest-mac->layer2-port binding unknown

## Command Mode

- /exec/configure

# system standby manual-boot

system standby manual-boot

## Syntax Description

system	System management commands
standby	System standby management commands
manual-boot	No action taken to force-download standby sup

## Command Mode

- /exec

# system standby reload vdc

system standby reload vdc { <e-vdc2> | <i0> }

## Syntax Description

system	System management commands
standby	System standby management commands
reload	Reload
vdc	vdc to reload
<i>e-vdc2</i>	Enter VDC <vdc-id>
<i>i0</i>	vdc number

## Command Mode

- /exec

# system startup-config init

system startup-config init

## Syntax Description

system	System management commands
startup-config	System startup-config commands
init	Initialize the startup-configuration

## Command Mode

- /exec

# system startup-config kill config-update

system startup-config kill config-update

## Syntax Description

system	System management commands
startup-config	System startup-config commands
kill	Kill configuration update
config-update	Kill configuration update

## Command Mode

- /exec

# system startup-config unlock

system startup-config unlock <i0>

## Syntax Description

system	System management commands
startup-config	System startup-config commands
unlock	Unlock startup-config
<i>i0</i>	Startup-config lock id

## Command Mode

- /exec



# system statistics

system statistics

## Syntax Description

system	System management commands
statistics	enables sysmgr statistics

## Command Mode

- /exec

# system switchover

system switchover

## Syntax Description

system	System management commands
switchover	Switch over to the standby supervisor

## Command Mode

- /exec

# system switchover force

system switchover force

## Syntax Description

system	System management commands
switchover	Switch over to the standby supervisor
force	Force switch over to the standby supervisor

## Command Mode

- /exec

# system swover-timeout-reset

[no] system swover-timeout-reset

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System management commands
swover-timeout-reset	switchover timeout and reset

## Command Mode

- /exec

# system trace

```
{ system trace <i0> | no system trace [ <i0> ] }
```

## Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
trace	To configure system trace level
<i>i0</i>	Select the mask

## Command Mode

- /exec/configure

# system urpf disable

[no] system urpf disable

## Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
urpf	Manage urpf enable/disable
disable	disable

## Command Mode

- /exec/configure

# system vlan

system vlan <start-val> reserve | no system vlan <start-val> reserve

## Syntax Description

system	system wide configuration
no	Select default reserved vlans group vlan 3968-4094
vlan	Vlan commands
<i>start-val</i>	minimum VLANs value
reserve	reservation

## Command Mode

- /exec/configure

# system watchdog

system watchdog

## Syntax Description

system	System management commands
watchdog	enables watchdog

## Command Mode

- /exec





## T Commands

---

- [table-map](#), on page 2993
- [table-map router-ospf3-af-ipv6](#), on page 2994
- [table-map \(router-eigrp-af-common\)](#), on page 2995
- [table-map \(vrf\)](#), on page 2996
- [table-map](#), on page 2997
- [table-map](#), on page 2998
- [table-map router-isis-af-ipv4](#), on page 2999
- [table-map router-isis-af-ipv6](#), on page 3000
- [tac-pac](#), on page 3001
- [tac-pac](#), on page 3002
- [tacacs enable](#), on page 3003
- [tacacs-server deadtime](#), on page 3004
- [tacacs-server directed-request](#), on page 3005
- [tacacs-server host](#), on page 3006
- [tacacs-server key](#), on page 3007
- [tacacs-server timeout](#), on page 3008
- [tag](#), on page 3009
- [tag](#), on page 3010
- [tail](#), on page 3011
- [tail](#), on page 3012
- [tar](#), on page 3013
- [tclsh](#), on page 3014
- [tclsh](#), on page 3015
- [tcp-connect](#), on page 3016
- [telnet](#), on page 3017
- [telnet6](#), on page 3018
- [telnet login-attempts](#), on page 3019
- [telnet server enable](#), on page 3020
- [template](#), on page 3021
- [template data timeout](#), on page 3022
- [template peer-policy](#), on page 3023
- [template peer-session](#), on page 3024
- [template peer](#), on page 3025

- [terminal](#), on page 3026
- [terminal](#), on page 3027
- [terminal](#), on page 3028
- [terminal](#), on page 3029
- [terminal alias](#), on page 3030
- [terminal ask-on-term](#), on page 3031
- [terminal color](#), on page 3032
- [terminal context management](#), on page 3033
- [terminal deep-help](#), on page 3034
- [terminal dont-ask](#), on page 3035
- [terminal edit-mode vi](#), on page 3036
- [terminal history no-exec-in-config](#), on page 3037
- [terminal history no-exec-in-config](#), on page 3038
- [terminal history no-exec-in-config](#), on page 3039
- [terminal home](#), on page 3040
- [terminal length](#), on page 3041
- [terminal length](#), on page 3042
- [terminal lock](#), on page 3043
- [terminal log-all](#), on page 3044
- [terminal no](#), on page 3045
- [terminal output xml](#), on page 3046
- [terminal password](#), on page 3047
- [terminal prompt](#), on page 3048
- [terminal redirection-mode](#), on page 3049
- [terminal reset-role](#), on page 3050
- [terminal reset vlan-config-mutex](#), on page 3051
- [terminal session-timeout](#), on page 3052
- [terminal terminal-type](#), on page 3053
- [terminal time](#), on page 3054
- [terminal tree-update](#), on page 3055
- [terminal unlock](#), on page 3056
- [terminal width](#), on page 3057
- [terminal width](#), on page 3058
- [threshold-percent](#), on page 3059
- [threshold](#), on page 3060
- [time-range](#), on page 3061
- [timeout](#), on page 3062
- [timeout](#), on page 3063
- [timer](#), on page 3064
- [timers](#), on page 3065
- [timers](#), on page 3066
- [timers](#), on page 3067
- [timers](#), on page 3068
- [timers advertise](#), on page 3069
- [timers basic](#), on page 3070
- [timers bestpath-defer](#), on page 3071

- [timers bestpath-limit](#), on page 3072
- [timers bgp](#), on page 3073
- [timers lsa-arrival](#), on page 3074
- [timers lsa-arrival](#), on page 3075
- [timers lsa-group-pacing](#), on page 3076
- [timers lsa-group-pacing](#), on page 3077
- [timers prefix-peer-timeout](#), on page 3078
- [timers prefix-peer-wait](#), on page 3079
- [timers throttle lsa](#), on page 3080
- [timers throttle lsa](#), on page 3081
- [timers throttle spf](#), on page 3082
- [timers throttle spf](#), on page 3083
- [tls](#), on page 3084
- [topology holddown sigerr](#), on page 3085
- [tos](#), on page 3086
- [tr](#), on page 3087
- [traceroute](#), on page 3088
- [traceroute6](#), on page 3089
- [track-adjacency-next-hop](#), on page 3090
- [track](#), on page 3091
- [track](#), on page 3093
- [track](#), on page 3094
- [track](#), on page 3095
- [track](#), on page 3096
- [traffic-share](#), on page 3097
- [transmit-delay](#), on page 3098
- [transmit-delay](#), on page 3099
- [transmit-delay](#), on page 3100
- [transport connection-mode passive](#), on page 3101
- [transport email](#), on page 3102
- [transport email mail-server](#), on page 3103
- [transport http proxy enable](#), on page 3104
- [transport http proxy server](#), on page 3105
- [transport http use-vrf](#), on page 3106
- [transport udp](#), on page 3107
- [trigger init](#), on page 3108
- [trigger init in-select 3 out-select 0 reverse](#), on page 3109
- [trigger init](#), on page 3110
- [trigger init](#), on page 3111
- [trigger init](#), on page 3112
- [trigger init](#), on page 3113
- [trigger init](#), on page 3114
- [trigger init](#), on page 3115
- [trigger init](#), on page 3116
- [trigger init](#), on page 3117
- [trigger init](#), on page 3118

- [trigger init](#), on page 3119
- [trigger init](#), on page 3120
- [trigger init](#), on page 3121
- [trigger init](#), on page 3122
- [trigger init](#), on page 3123
- [trigger init](#), on page 3124
- [trigger init](#), on page 3125
- [trigger init](#), on page 3126
- [trigger init](#), on page 3127
- [trigger init](#), on page 3128
- [trigger init](#), on page 3129
- [trigger init](#), on page 3130
- [trigger init](#), on page 3131
- [trigger init](#), on page 3132
- [trigger init](#), on page 3133
- [trigger init](#), on page 3134
- [trigger init](#), on page 3135
- [trigger init](#), on page 3136
- [trigger init](#), on page 3137
- [trigger init](#), on page 3138
- [trigger init](#), on page 3139
- [trigger init](#), on page 3140
- [trigger init](#), on page 3141
- [trigger init](#), on page 3142
- [trigger init](#), on page 3143
- [trigger init](#), on page 3144
- [trigger init](#), on page 3145
- [trigger init](#), on page 3146
- [trigger init](#), on page 3147
- [trigger reset](#), on page 3148
- [trustpoint server-identity](#), on page 3149
- [tunnel destination](#), on page 3150
- [tunnel mode](#), on page 3151
- [tunnel path-mtu-discovery](#), on page 3152
- [tunnel path-mtu-discovery](#), on page 3153
- [tunnel source](#), on page 3154
- [tunnel ttl](#), on page 3155
- [tunnel use-vrf](#), on page 3156

# table-map

[no] table-map <rmap-name> [ filter ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Apply table-map to filter routes downloaded into URIB
<i>rmap-name</i>	Route-map name
filter	(Optional) Selective route download

## Command Mode

- /exec/configure/router-bgp/router-bgp-af

## table-map router-ospf3-af-ipv6

[no] table-map <policy-name> [ filter ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Policy for filtering/modifying OSPFV3 routes before sending them to RIB
<i>policy-name</i>	Route-map name
filter	(Optional) To block the OSPFV3 routes from being sent to RIB

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## table-map (router-igrp-af-common)

[no] table-map <map> [ filter ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Configure Table Map information
<i>map</i>	Route-map name
filter	(Optional) Filter routes which are rejected by route-map

### Command Mode

- /exec/configure/router-igrp/router-igrp-vrf-common /exec/configure/router-igrp/router-igrp-af-common

## table-map (vrf)

[no] table-map <policy-name> [ filter ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Policy for filtering/modifying OSPF routes before sending them to RIB
<i>policy-name</i>	Route-map name
filter	(Optional) To block the OSPF routes from being sent to RIB

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf



# table-map

[no] table-map <table-map-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Configure a table map
<i>table-map-name</i>	Table map name

## Command Mode

- /exec/configure

# table-map

table-map <default-tmap-enum-name>

## Syntax Description

table-map	Configure a table map
<i>default-tmap-enum-name</i>	

## Command Mode

- /exec/configure

## table-map router-isis-af-ipv4

[no] table-map <policy-name> [ filter ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Table-map policy used to filter routes and tune attributes before downloading to RIB
filter	(Optional) Filter the routes based on policy results
<i>policy-name</i>	A 'routing-rules' route-map name

### Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

## table-map router-isis-af-ipv6

[no] table-map <policy-name> [ filter ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Table-map policy used to filter routes and tune attributes before downloading to RIB
filter	(Optional) Filter the routes based on policy results
<i>policy-name</i>	A 'routing-rules' route-map name

### Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

# tac-pac

tac-pac [ <uri0> ]

## Syntax Description

tac-pac	save tac info in a compressed .gz file at specific location
<i>uri0</i>	(Optional) Select destination filesystem

## Command Mode

- /exec

# tac-pac

```
tac-pac [ <uri0> [ vrf <vrf-known-name> ] ]
```

## Syntax Description

<code>tac-pac</code>	save tac info in a compressed .gz file at specific location
<code>uri0</code>	(Optional) Select destination filesystem
<code>vrf</code>	(Optional) Display per-VRF information
<code>vrf-known-name</code>	(Optional) Known VRF name

## Command Mode

- /exec

# tacacs enable

[no] tacacs + enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
enable	Enable tacacs+

## Command Mode

- /exec/configure

# tacacs-server deadtime

[no] tacacs-server deadtime <i0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

## Command Mode

- /exec/configure



# tacacs-server directed-request

[no] tacacs-server directed-request

## Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
directed-request	enable direct authentication requests to server

## Command Mode

- /exec/configure

## tacacs-server host

```
{ { [ no ] tacacs-server host { <hostipname> } { { key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } [ port <i1> ] [
timeout <i2> ] } | { [ port1 <i3> ] [ timeout1 <i4> ] } } } | { no tacacs-server host <hostipname> key } }
```

### Syntax Description

<i>key</i>	0
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
host	TACACS+ server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
key	TACACS+ shared secret
0	TACACS+ shared secret(clear text)
<i>s0</i>	TACACS+ shared secret(clear text)
port	(Optional) TACACS+ server port
<i>i1</i>	(Optional) TACACS+ server port
timeout	(Optional) TACACS+ server timeout period in seconds
<i>i2</i>	(Optional) TACACS+ server timeout period in seconds
6	TACACS+ shared secret(type-6 encrypted)
<i>s6</i>	TACACS+ shared secret(encrypted)
7	TACACS+ shared secret(encrypted)
<i>s1</i>	TACACS+ shared secret(encrypted)
port1	(Optional) TACACS+ server port
<i>i3</i>	(Optional) TACACS+ server port
timeout1	(Optional) TACACS+ server timeout period in seconds
<i>i4</i>	(Optional) TACACS+ server timeout period in seconds
<i>s2</i>	TACACS+ shared secret(clear text)

### Command Mode

- /exec/configure

# tacacs-server key

```
{ { [ no ] tacacs-server key { 0 <s0> [ timeout <i0> ] | 6 <s6> [ timeout6 <i6> ] | 7 <s1> [ timeout1 <i1> ] | <s2> [ timeout2 <i2> ] } } | { no tacacs-server key } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
key	Global TACACS+ server shared secret
0	default TACACS+ shared secret(clear text)
s0	default TACACS+ shared secret(clear text)
timeout	(Optional) Global TACACS+ server timeout period in seconds
i0	(Optional) Global TACACS+ server timeout period in seconds
6	default TACACS+ shared secret(type-6 encrypted)
s6	default TACACS+ shared secret(type-6 encrypted)
timeout6	(Optional) Global TACACS+ server timeout period in seconds
i6	(Optional) Global TACACS+ server timeout period in seconds
7	default TACACS+ shared secret(encrypted)
s1	default TACACS+ shared secret(encrypted)
timeout1	(Optional) Global TACACS+ server timeout period in seconds
i1	(Optional) Global TACACS+ server timeout period in seconds
s2	default TACACS+ shared secret(clear text)
timeout2	(Optional) Global TACACS+ server timeout period in seconds
i2	(Optional) Global TACACS+ server timeout period in seconds

## Command Mode

- /exec/configure

## tacacs-server timeout

[no] tacacs-server timeout <i0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
timeout	Global TACACS+ server timeout period in seconds
<i>i0</i>	Global TACACS+ server timeout period in seconds

### Command Mode

- /exec/configure

# tag

{ { no | default } tag | tag <text> }

## Syntax Description

no	
default	Set a command to its defaults
tag	User defined tag
<i>text</i>	Tag string line

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp  
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho  
/exec/configure/ip-sla/pong

# tag

[no] tag <tag\_id> <op> <tag\_id> [ <op> <tag\_id> [ <op> <tag\_id> ] ] happens <threshold> in <interval> |  
no tag

## Syntax Description

no	(Optional) Negate a command or set its defaults
tag	event tag identifier
<i>tag_id</i>	tag name
<i>op</i>	boolean operator
happens	The number of occurrences before raising the event
<i>threshold</i>	Occurs value
in	Number of occurrences must occur within this time period
<i>interval</i>	Enter seconds value

## Command Mode

- /exec/configure/event-manager-applet

# tail

tail [ -n <lines> ]

## Syntax Description

	Pipe command output to filter
tail	Display last lines
-n	(Optional) modify number of lines (default 10)
<i>lines</i>	(Optional) number of lines to print

## Command Mode

- /output

# tail

tail <uri0> [ <i1> ]

## Syntax Description

tail	Display the last part of a file
<i>uri0</i>	Filename to be displayed
<i>i1</i>	(Optional) Enter the number of lines to be displayed

## Command Mode

- /exec



# tar

```
tar { create <new-archive-file> [ gz-compress | bz2-compress | uncompressed ] + [ remove | absolute | verbose ] + <files> + | append <archive-file> [ remove | absolute | verbose ] + <files> + | extract <archive-file> [ screen | to <dest-dir> | keep-old | verbose ] + | list <archive-file> }
```

## Syntax Description

tar	archiving operations
create	create an archive (merge several files together)
append	append some files to an existing archive
extract	extract files from archive (unmerge them)
verbose	(Optional) display files while merging/extracting
gz-compress	(Optional) compress archive with gzip, the default -> .tar.gz
bz2-compress	(Optional) compress archive with bzip2 -> .tar.bz2
uncompressed	(Optional) dont compress archive -> .tar
remove	(Optional) remove files after adding them to the archive
absolute	(Optional) don't strip leading '/'s from file names
keep-old	(Optional) don't replace existing files when extracting
screen	(Optional) extract files to screen
list	shows the list of files which are part of the archive
<i>new-archive-file</i>	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
<i>archive-file</i>	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
<i>files</i>	name of file to be added into archive
to	(Optional) extract to specific directory (default is bootflash)
<i>dest-dir</i>	(Optional) destination dir where to extract to (created if not exist), default is bootflash

## Command Mode

- /exec

# tclsh

tclsh <file> [ <args> ] +

## Syntax Description

tclsh	source tclsh script
<i>file</i>	the file to run
<i>args</i>	(Optional) args to tcl script

## Command Mode

- /exec

# tclsh

tclsh

## Syntax Description

tclsh	Execute tclsh
-------	---------------

## Command Mode

- /exec

## tcp-connect

[no] tcp-connect { <hostname> | <ip-address> } <dest-port> { [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } +

### Syntax Description

no	(Optional)
<i>control</i>	(Optional) enable
<i>source-ip-address</i>	(Optional) <src-port>
tcp-connect	TCP Connect Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>dest-port</i>	Port Number (Recommended port range between 1025-65534)
enable	(Optional) Enable control packets exchange (default)
disable	(Optional) Disable control packets exchange
source-ip	(Optional) Source address
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
source-port	(Optional) Source Port
<i>src-port</i>	(Optional) Port Number (Recommended port range between 1025-65534)

### Command Mode

- /exec/configure/ip-sla

# telnet

```
{ telnet { <so> | <host> } } [ <i0> ] [ [ source { <host_src> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ]
```

## Syntax Description

telnet	Telnet to another system
<i>so</i>	Enter hostname
<i>host</i>	Enter a valid IPv4 address
source	(Optional) Set source address in IPv4 header
<i>host_src</i>	(Optional) Set IPV4 address as source
<i>interface</i>	(Optional) Set interface to send IPv4 packet
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>i0</i>	(Optional) Enter the port number

## Command Mode

- /exec

# telnet6

```
{ telnet6 { <s1> | <host1> } } [ <i0> ] [ [ source { <host1_src> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ]
```

## Syntax Description

telnet6	Telnet6 to another system using IPv6 addressing
<i>s1</i>	Enter hostname
source	(Optional) Set source address in IPv6 header
<i>interface</i>	(Optional) Set interface to send IPv6 packet
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>i0</i>	(Optional) Enter the port number

## Command Mode

- /exec

# telnet login-attempts

```
{ { telnet login-attempts <d0> } | { no telnet login-attempts [ <d0> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
telnet	telnet login
login-attempts	Set maximum login attempts
<i>d0</i>	Specify max-attempt number

## Command Mode

- /exec/configure/

# telnet server enable

[no] telnet server enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
telnet	Enable telnet
server	Enable telnet
enable	Enable telnet

## Command Mode

- /exec/configure



# template

template <res-mgr-template-known-name-all>

## Syntax Description

template	Change the template for this vdc
<i>res-mgr-template-known-name-all</i>	Resource template for this vdc

## Command Mode

- /exec/configure/vdc

# template data timeout

{ [ no ] template data timeout <time> | no template data timeout }

## Syntax Description

template	Version 9 Template
data	Data
timeout	Template Data resend time
<i>time</i>	Time in seconds

## Command Mode

- /exec/configure/nfm-exporter-v9

# template peer-policy

[no] template peer-policy <peer-policy-template-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
template	Enter template command mode
peer-policy	Template configuration for policy parameters
<i>peer-policy-template-name</i>	Name of peer-policy template

## Command Mode

- /exec/configure/router-bgp

# template peer-session

[no] template peer-session <peer-session-template-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
template	Enter template command mode
peer-session	Template configuration for session parameters
<i>peer-session-template-name</i>	Name of peer-session template

## Command Mode

- /exec/configure/router-bgp

# template peer

[no] template peer <peer-template-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
template	Enter template command mode
peer	Template configuration for peer parameters
<i>peer-template-name</i>	Neighbor template name

## Command Mode

- /exec/configure/router-bgp

# terminal

```
terminal { monitor | no { monitor1 | monitor-force } }
```

## Syntax Description

terminal	Set terminal line parameters
monitor	Copy Syslog output to the current terminal line
no	Negate a command or set its defaults
monitor1	Copy Syslog output to the current terminal line
monitor-force	Copy Syslog output to the current terminal line

## Command Mode

- /exec

# terminal

terminal [ <noarg> ] verify-only [ username <user> ]

## Syntax Description

terminal	Set terminal line parameters
<i>noarg</i>	(Optional)
verify-only	Verify command and do not execute
username	(Optional) Username for aaa authorization
<i>user</i>	(Optional) Username for aaa authorization

## Command Mode

- /exec

# terminal

terminal [ <noarg> ] sticky-mode

## Syntax Description

terminal	Set terminal line parameters
<i>noarg</i>	(Optional)
sticky-mode	Search for the command match in current mode only

## Command Mode

- /exec



# terminal

terminal [ <noarg> ] event-manager bypass

## Syntax Description

terminal	Set terminal line parameters
<i>noarg</i>	(Optional)
event-manager	Event manager cli event
bypass	Bypass event manager cli event publish

## Command Mode

- /exec

## terminal alias

[no] terminal alias [ persist ] [ <alias-name> [ <command> ] ]

### Syntax Description

<code>no</code>	(Optional) Negate a command or set its defaults
<code>terminal</code>	Set terminal line parameters
<code>alias</code>	show aliases (if no arguments) create 'exec' aliases (not persistent). Persistent aliases are in config mode, see 'cli alias'
<code>persist</code>	(Optional) add terminal alias to <username>.rc.cli file (auto-executed at login time)
<i>alias-name</i>	(Optional) Name of the alias. (if last argument: shows the value of that alias) Command lines can start with an alias and it will be expanded before parsing. An alias can also be used right after a pipe. The substitution text can contain things like '\$1 \$2' and those \$<number> will be substituted by correspondingly numbered token from the command line starting the counting after the alias.
<i>command</i>	(Optional) Value of the alias (what the alias will be substituted with)

### Command Mode

- /exec

# terminal ask-on-term

[no] terminal ask-on-term <term>

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
ask-on-term	ask backend driven question on given terminal
<i>term</i>	the terminal (/dev/ptsX)

## Command Mode

- /exec

# terminal color

[no] terminal color [ persist ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
color	enable colorization of prompt(green if last command ok, red if error), command line (blue), output (default color)
persist	(Optional) add command to <username>.rc.cli file (auto-execed at login time)

## Command Mode

- /exec

# terminal context management

[no] terminal context management

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
context	set the vrf context
management	vrf context management

## Command Mode

- /exec

# terminal deep-help

[no] terminal deep-help

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
deep-help	enable cli syntax and list

## Command Mode

- /exec

# terminal dont-ask

[no] terminal dont-ask [ persist ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
dont-ask	Don't ask 'are you sure' questions, take default answer instead
persist	(Optional) add command to <username>.rc.cli file (auto-execed at login time)

## Command Mode

- /exec

# terminal edit-mode vi

[no] terminal edit-mode vi [ persist ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
edit-mode	set command line edition keys (vi or emacs emacs is default)
vi	edit like in vi by default in insert-mode, use ~ for command-mode
persist	(Optional) add command to <username>.rc.cli file (auto-execed at login time)

## Command Mode

- /exec



# terminal history no-exec-in-config

[no] terminal history no-exec-in-config

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
history	configure terminal history properties
no-exec-in-config	don't recall exec commands while in config mode

## Command Mode

- /exec

# terminal history no-exec-in-config

[no] terminal history no-exec-in-config

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
history	configure terminal history properties
no-exec-in-config	don't recall exec commands while in config mode

## Command Mode

- /exec

# terminal history no-exec-in-config

[no] terminal history no-exec-in-config

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
history	configure terminal history properties
no-exec-in-config	don't recall exec commands while in config mode

## Command Mode

- /exec

# terminal home

terminal home

## Syntax Description

terminal	Set terminal line parameters
home	go back to line 1 position 1 without erasing the screen (to be used in cli command loops)

## Command Mode

- /exec

# terminal length

terminal length <i0>

## Syntax Description

terminal	Set terminal line parameters
length	Set number of lines on a screen
<i>i0</i>	Number of lines on screen (0 for no pausing)

## Command Mode

- /exec

# terminal length

terminal length <i0>

## Syntax Description

terminal	Set terminal line parameters
length	Set number of lines on a screen
<i>i0</i>	Number of lines on screen (0 for no pausing)

## Command Mode

- /exec/configure/console

# terminal lock

terminal lock

## Syntax Description

terminal	Set terminal line parameters
lock	Locks the CLI Config mode

## Command Mode

- /exec

# terminal log-all

<noarg> ] terminal log-all

## Syntax Description

terminal	Configure terminal settings
<i>noarg</i>	(Optional)
log-all	Accounting log all commands including the show commands

## Command Mode

- /exec/configure



# terminal no

terminal no { length | terminal-type | width }

## Syntax Description

terminal	Set terminal line parameters
no	Negate a command or set its defaults
length	Set number of lines on a screen
terminal-type	Set the terminal type
width	Set width of the display terminal

## Command Mode

- /exec

# terminal output xml

[no] terminal output xml

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
output	how output of show commands should be formatted
xml	xml output

## Command Mode

- /exec

# terminal password

terminal password <password> | no terminal password [ <password> ]

## Syntax Description

no	Negate a command or set its defaults
terminal	Set terminal line parameters
password	set a password to be used in copy scp/ftp commands use online help on the argument to disable echo so you don't need to type control-x-e twice (to toggle echo), echo will be re-enabled after carriage-return
<i>password</i>	Enter the password (online help that you just did disabled echo so type your password and press return

## Command Mode

- /exec

# terminal prompt

[no] terminal prompt [ fix [ <name> ] [ with-cr ] | mode | { fq-command | command } | status | exec-time | time | no-echo ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
prompt	configure how the prompt should look like
fix	(Optional) set the prompt to a fix name (default _prompt_)
with-cr	(Optional) add a carriage return at the end of the prompt
<i>name</i>	(Optional) name to use as a fix prompt
mode	(Optional) include the cli mode name (ex: config-if) into the prompt
fq-command	(Optional) include the fully qualified command just executed (formatted like in accounting log)
command	(Optional) include the previous command (not including the mode and mode instance)
status	(Optional) include the status of previous command (0=success)
exec-time	(Optional) include the time it took to execute previous command
time	(Optional) include the time when prompt was printed
no-echo	(Optional) dont echo the typed characters

## Command Mode

- /exec

# terminal redirection-mode

terminal redirection-mode <mode>

## Syntax Description

terminal	Set terminal line parameters
redirection-mode	Set the redirection mode
<i>mode</i>	

## Command Mode

- /exec

# terminal reset-role

terminal reset-role <num>

## Syntax Description

terminal	Set terminal line parameters
reset-role	Reset the privilege role to default
<i>num</i>	Enter the role num

## Command Mode

- /exec

# terminal reset vlan-config-mutex

terminal reset vlan-config-mutex

## Syntax Description

terminal	Set terminal line parameters
reset	Force reset of the vlan config mode mutex
vlan-config-mutex	Vlan configuration mutex

## Command Mode

- /exec

# terminal session-timeout

terminal session-timeout <i0>

## Syntax Description

terminal	Set terminal line parameters
session-timeout	Set session timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

## Command Mode

- /exec



# terminal terminal-type

terminal terminal-type <s0>

## Syntax Description

terminal	Set terminal line parameters
terminal-type	Set the terminal type
s0	Terminal type

## Command Mode

- /exec

# terminal time

terminal time [ <name> ] [ delta ]

## Syntax Description

terminal	Set terminal line parameters
time	save the current time under a variable
<i>name</i>	(Optional) the variable to store the time in
delta	(Optional) print the delta time to the currently saved time value

## Command Mode

- /exec

# terminal tree-update

terminal tree-update

## Syntax Description

terminal	Set terminal line parameters
tree-update	Updates the main parse tree

## Command Mode

- /exec

# terminal unlock

terminal unlock

## Syntax Description

terminal	Set terminal line parameters
unlock	Force unlocking of the CLI config mode

## Command Mode

- /exec

# terminal width

terminal width <*i0*>

## Syntax Description

terminal	Set terminal line parameters
width	Set width of the display terminal
<i>i0</i>	Number of characters on a screen line

## Command Mode

- /exec

# terminal width

terminal width <*i0*>

## Syntax Description

terminal	Set terminal line parameters
width	Set width of the display terminal
<i>i0</i>	Number of characters on a screen line

## Command Mode

- /exec/configure/console

# threshold-percent

```
threshold-percent { percent-threshold { percentup <up-percentage> [ percentdown<down-percentage> ] |
percentdown<down-percentage> [ percentup <up-percentage> ] } } | no threshold-percent { percent-threshold
}
```

## Syntax Description

no	Negate a command or set its defaults
threshold-percent	Threshold parameters
percent-threshold	Percentage threshold
percentup	Up threshold
<i>up-percentage</i>	Up threshold percentage

## Command Mode

- /exec/configure/tr-list-thrp

# threshold

{ { no | default } threshold | threshold <milliseconds> }

## Syntax Description

no	
default	Set a command to its defaults
threshold	Operation threshold
<i>milliseconds</i>	Millisecond threshold value

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp  
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho  
/exec/configure/ip-sla/pong



# time-range

[no] time-range <name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
time-range	Define time range entries
<i>name</i>	Time range name

## Command Mode

- /exec/configure

# timeout

{ { no | default } timeout |

## Syntax Description

no	
default	Set a command to its defaults
timeout	Timeout of an operation

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp  
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho

# timeout

{ { no | default } timeout |

## Syntax Description

no	
default	Set a command to its defaults
timeout	Timeout of an operation

## Command Mode

- /exec/configure/ip-sla/pong

# timer

timer <value> | no timer

## Syntax Description

no	Negate a command or set its defaults
timer	Configure Bundle timer value
<i>value</i>	Hello timer value

## Command Mode

- /exec/configure/anycast

# timers

timers <keepalive-interval> <hold-time> | { no | default } timers [ <keepalive-interval> <hold-time> ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
timers	Configure keepalive and hold timers
<i>keepalive-interval</i>	Keepalive interval (seconds)
<i>hold-time</i>	Holdtime (seconds)

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# timers

```
[no] timers { nsf { route-hold <hold-interval> | converge <converge-interval> | signal <signal-interval> } |
active-time [ <max-active-time> | disabled ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
timers	Set EIGRP timers
nsf	EIGRP NSF timer
route-hold	EIGRP hold time for routes learned from nsf peer
<i>hold-interval</i>	Seconds
active-time	EIGRP time limit for active state
<i>max-active-time</i>	(Optional) EIGRP active-state time limit in minutes
disabled	(Optional) disable EIGRP time limit for active state
converge	EIGRP time limit for convergence after switchover
<i>converge-interval</i>	Seconds
signal	EIGRP time limit for signaling NSF restart
<i>signal-interval</i>	Seconds

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# timers

timers { <hello-time> { <hold-time> | msec-hold <msec-hold> } | msec-hello <msec-hello> { <hold-time> | msec-hold <msec-hold> } } | no timers

## Syntax Description

no	Negate a command or set its defaults
timers	Hello and hold timers
<i>hello-time</i>	Hello interval in seconds
<i>hold-time</i>	Hold time in seconds
msec-hold	Specify hold interval in milliseconds
<i>msec-hold</i>	Hold interval in milliseconds
msec-hello	Specify hello interval in milliseconds
<i>msec-hello</i>	Hello interval in milliseconds

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# timers

```
timers { <hello-time> { <hold-time> | ms-hold <hold-time-msec> } | ms-hello <hello-time-msec> {
<hold-time-sec> | msec-hold <hold-time-msec> } | redirect <redirect-time> <sec-hold-time> } | no timers [
{ <hello-time> [ { <hold-time> | ms-hold <hold-time-msec> } ] | ms-hello [ <hello-time-msec> [
<hold-time-sec> | msec-hold <hold-time-msec> ] ] | redirect [ <redirect-time> [ <sec-hold-time> ] ] } ]
```

## Syntax Description

no	Negate a command or set its defaults
timers	Adjust GLBP timers
<i>hello-time</i>	Specify Hello interval in seconds
<i>hold-time</i>	Specify Hold time in seconds
ms-hold	Specify hold time in milliseconds
<i>hold-time-msec</i>	Hold time in milliseconds
ms-hello	Specify hello interval in milliseconds
<i>hello-time-msec</i>	hello interval in milliseconds
<i>hold-time-sec</i>	Hold time in seconds
msec-hold	Specify hold time in milliseconds
redirect	Specify time-out value for failed forwarders
<i>redirect-time</i>	Interval in seconds to redirect to failed forwarders
<i>sec-hold-time</i>	Time-out interval in seconds for failed forwarders

## Command Mode

- /exec/configure/if-eth-any/glbp



# timers advertise

[no] timers advertise | timers advertise <val>

## Syntax Description

no	Negate a command or set its defaults
timers	Set the VRRP timers
advertise	Set the advertise timer
<i>val</i>	Advertisement interval in milliseconds

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

## timers basic

timers basic <update> <invalid> <holddown> <garbage> | no timers basic [ <update> <invalid> <holddown> <garbage> ]

### Syntax Description

no	Negate a command or set its defaults
timers	RIP set timers
basic	RIP set basic timers
<i>update</i>	RIP update period
<i>invalid</i>	RIP route timeout period
<i>holddown</i>	RIP route holddown period
<i>garbage</i>	RIP route garbage period

### Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

## timers bestpath-defer

[no] timers bestpath-defer <bestpath-defer-time> maximum <bestpath-defer-time-max>

### Syntax Description

no	(Optional) Negate a command or set its defaults
timers	Configure bgp related timers
bestpath-defer	Configure bestpath defer timer value for batch prefix processing
<i>bestpath-defer-time</i>	Bestpath defer time (seconds)
maximum	Configure bestpath defer timer maximum value
<i>bestpath-defer-time-max</i>	Maximum bestpath defer time (seconds)

### Command Mode

- /exec/configure/router-bgp/router-bgp-af

## timers bestpath-limit

timers bestpath-limit <bestpath-timeout> [ always ] | no timers bestpath-limit [ <bestpath-timeout> ]

### Syntax Description

no	Negate a command or set its defaults
timers	Configure bgp related timers
bestpath-limit	Configure timeout for first bestpath after restart
<i>bestpath-timeout</i>	Bestpath timeout (seconds), default value is 300
always	(Optional) Configure update-delay-always option

### Command Mode

- /exec/configure/router-bgp/vrf-cmds

# timers bgp

[no] timers bgp <keepalive-interval> <hold-time>

## Syntax Description

no	(Optional) Negate a command or set its defaults
timers	Configure bgp related timers
bgp	Configure different bgp keepalive and holdtimes
<i>keepalive-interval</i>	Keepalive interval (seconds)
<i>hold-time</i>	Holdtime (seconds)

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

## timers lsa-arrival

```
{ { timers lsa-arrival <interval> } | { no timers lsa-arrival [ <interval> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-arrival	Minimum interval between arrival of a LSA
<i>interval</i>	Interval value (milliseconds)

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

# timers lsa-arrival

```
{ { timers lsa-arrival <interval> } | { no timers lsa-arrival [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-arrival	Minimum interval between arrival of a LSA
<i>interval</i>	Interval value (millisecond)

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

## timers lsa-group-pacing

```
{ { timers lsa-group-pacing <interval> } | { no timers lsa-group-pacing [ <interval> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-group-pacing	LSA group refresh/maxage interval
<i>interval</i>	Interval value (seconds)

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf



# timers lsa-group-pacing

```
{ { timers lsa-group-pacing <interval> } | { no timers lsa-group-pacing [ <interval> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-group-pacing	LSA group refresh/maxage interval
<i>interval</i>	Interval value (seconds)

## Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

## timers prefix-peer-timeout

timers prefix-peer-timeout <prefixpeer-timeout> | no timers prefix-peer-timeout [ <prefixpeer-timeout> ]

### Syntax Description

no	Negate a command or set its defaults
timers	Configure bgp related timers
prefix-peer-timeout	Configure how long state for a prefix peer is maintained
<i>prefixpeer-timeout</i>	Prefix Peer timeout (seconds)

### Command Mode

- /exec/configure/router-bgp/vrf-cmds

# timers prefix-peer-wait

timers prefix-peer-wait <prefixpeer-wait> | no timers prefix-peer-wait [ <prefixpeer-wait> ]

## Syntax Description

no	Negate a command or set its defaults
timers	Configure bgp related timers
prefix-peer-wait	Configure wait timer for a prefix peer
<i>prefixpeer-wait</i>	Prefix peer wait timer (seconds)

## Command Mode

- /exec/configure/router-bgp/vrf-cmds

## timers throttle lsa

```
{ { timers throttle lsa <start-time> <hold-time> <max-time> } | { no timers throttle lsa [ <start-time>
<hold-time> <max-time> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Set rate-limiting values (milliseconds)
lsa	Set rate-limiting for LSA generation
<i>start-time</i>	Start interval (milliseconds)
<i>hold-time</i>	Hold interval (milliseconds)
<i>max-time</i>	Max interval (milliseconds)

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## timers throttle lsa

```
{ { timers throttle lsa <start-time> <hold-time> <max-time> } | { no timers throttle lsa [ <start-time>
<hold-time> <max-time> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Set rate-limiting values (milliseconds)
lsa	Set rate-limiting for LSA generation
<i>start-time</i>	Start interval (milliseconds)
<i>hold-time</i>	Hold interval (milliseconds)
<i>max-time</i>	Max interval (milliseconds)

### Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

## timers throttle spf

```
{ { timers throttle spf <start-time> <hold-time> <max-time> } | { no timers throttle spf [ <start-time>
<hold-time> <max-time> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Configure timer related constants
spf	OSPF SPF timers
<i>start-time</i>	Initial SPF schedule delay in milliseconds
<i>hold-time</i>	Minimum hold time between SPF calculations
<i>max-time</i>	Maximum wait time between SPF calculations

### Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

## timers throttle spf

```
{ { timers throttle spf <start-time> <hold-time> <max-time> } | { no timers throttle spf [ <start-time>
<hold-time> <max-time> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Configure timer related constants
spf	OSPF SPF timers
<i>start-time</i>	Initial SPF schedule delay in milliseconds
<i>hold-time</i>	Minimum hold time between SPF calculations
<i>max-time</i>	Maximum wait time between SPF calculations

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

# tls

[no] tls

## Syntax Description

no	(Optional) Negate a command or set its defaults
tls	One Platform TLS transport configuration mode

## Command Mode

- /exec/configure/onep



# topology holddown sigerr

[no] topology holddown sigerr | topology holddown sigerr <sec>

## Syntax Description

no	Negate a command or set its defaults
topology	Topology Database Configuration
holddown	Topology Database hold down timers
sigerr	Link hold down time for signalling errors
<i>sec</i>	Hold down time in seconds

## Command Mode

- /exec/configure/te

# tos

{ { no | default } tos | tos <tos-value> }

## Syntax Description

no	
default	Set a command to its defaults
tos	Type of Service
<i>tos-value</i>	Type of Service Value

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

## tr

```
tr [-c | -d | -s | -t] + <SET1> [ <SET2> ]
```

**Syntax Description**

	Pipe command output to filter
tr	Translate, squeeze, and/or delete characters
-c	(Optional) first complement SET1
-d	(Optional) delete characters in SET1, do not translate
-s	(Optional) replace each sequence of a repeated character from SET1 with single occurrence of that character
-t	(Optional) first truncate SET1 to length of SET2
<i>SET1</i>	character SET1: CHAR1-CHAR2 = all characters from CHAR1 to CHAR2 in ascending order special chars: (tab) (new line) [:alnum:] [:alpha:] [:digit:] [:graph:] (printable, no space) [:print:] (printable, with space) [:lower:] [:upper:] [:space:] (tab or space)
<i>SET2</i>	(Optional) character SET2 (for translation length is extended to length of SET1 by repeating last char, excess chars are ignored); format same as SET1 [CHAR*] = copies of CHAR until length of SET1 [CHAR*REPEAT] = REPEAT copies of CHAR

**Command Mode**

- /output

# tracert

```
tracert { <host> | <hostname> } [ port <portnumber> ] [ [ source-interface <src-intf> ] | [ source { <host> | <hostname> | <interface> } ] ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] ]
```

## Syntax Description

tracert	Tracert
<i>host</i>	IP address of remote system
<i>hostname</i>	Hostname of remote system
port	(Optional) Set destination port
<i>portnumber</i>	(Optional) Enter destination port number
source	(Optional) Set source address in IP header
<i>interface</i>	(Optional) Interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface

## Command Mode

- /exec

# traceroute6

```
traceroute6 { <host> | <hostname> } [ source { <host> | <hostname> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } | source-interface <src-intf> ]
```

## Syntax Description

traceroute6	Traceroute6
<i>hostname</i>	Hostname of remote system
source	(Optional) Set source address in IPv6 header
<i>interface</i>	(Optional) Interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface

## Command Mode

- /exec

# track-adjacency-nexthop

[no] track-adjacency-nexthop

## Syntax Description

no	(Optional) Negate a command or set its defaults
track-adjacency-nexthop	Track next-hop for same-site Overlay adjacencies

## Command Mode

- /exec/configure/otv-isis

# track

```
track <object-id> [ interface <ifnum> { line-protocol | ipv4 routing | ipv6 routingv6 } | { ip_v4 { route
<route-prefix> reachability | sla <sla-id> [ sla_reachability | sla_state ] } | ip_v6 routev6 <v6route-prefix>
reachability } | list { boolean <bool-val> } | { list threshold <threshold-val> } ] | no track <object-id> [ force
]
```

## Syntax Description

no	Negate a command or set its defaults
track	Object tracking configuration commands
<i>object-id</i>	Tracked Object
interface	(Optional) Interface to track
<i>ifnum</i>	(Optional) Interface type and number
line-protocol	(Optional) Track interface line-protocol
ipv4	(Optional) IPv4 parameters
routing	(Optional) Track interface ipv4 routing
ipv6	(Optional) IPv6 parameters
routingv6	(Optional) Track interface ipv6 routing
ip_v4	(Optional) IPv4 protocol
route	(Optional) IPv4 route
<i>route-prefix</i>	(Optional) Specify ipv4 route prefix
ip_v6	(Optional) IPv6 protocol
routev6	(Optional) IPv6 route
reachability	(Optional) Route reachability state
force	(Optional) Completely remove the object
list	(Optional) Object tracking list
boolean	(Optional) boolean list type
sla	(Optional) IP Service Level Agreement
<i>sla-id</i>	(Optional) Entry number
sla_reachability	(Optional) Reachability
sla_state	(Optional) Return code state

<i>bool-val</i>	(Optional) boolean list type
<i>threshold</i>	(Optional) threshold type
<i>threshold-val</i>	(Optional) threshold type

**Command Mode**

- /exec/configure



# track

track <track-obj> | no track <track-obj>

## Syntax Description

no	Negate a command or set its defaults
track	Tracking object to suspend vPC if object goes down
<i>track-obj</i>	Tracked object

## Command Mode

- /exec/configure/vpc-domain

# track

[no] track <object-number> [ decrement <value> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
track	Associates track object to HSRP group
<i>object-number</i>	Set the object number to the group
decrement	(Optional) Decrements when tracked object goes down
<i>value</i>	(Optional) Set the value to decrement from priority

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# track

track <object-number> | no track

## Syntax Description

no	Negate a command or set its defaults
track	Associates track object to Anycast Bundle
<i>object-number</i>	Set the object number

## Command Mode

- /exec/configure/anycast

# track

```
{ { track { { interface <intf_num> priority <priority_value> } | { <object-num> [ decrement <decrement-value> ] } } } | { no track [ { { interface <intf_num> priority <priority_value> } | { <object-num> [ decrement <decrement-value> ] } } ] } }
```

## Syntax Description

no	Negate a command or set its defaults
track	Track the availability of another interface/object
interface	Select the tracked interface(Native tracking)
<i>intf_num</i>	
priority	Vr priority used when the tracked interface is down
<i>priority_value</i>	
<i>object-num</i>	Set the object number to the group(Object tracking)
decrement	(Optional) Decrements priority when tracked object goes down
<i>decrement-value</i>	(Optional) Set the value to decrement from priority

## Command Mode

- /exec/configure/if-eth-any/vrrp

# traffic-share

[no] traffic-share { balanced | { min across-interfaces } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
traffic-share	How to compute traffic share over alternate paths
balanced	Share inversely proportional to metric
min	All traffic shared among min metric paths
across-interfaces	Use different interfaces for equal-cost paths

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

# transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

# transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

# transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

## Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink



## transport connection-mode passive

[ no | default ] transport connection-mode passive

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
transport	BGP transport connection
connection-mode	Specify type of connection
passive	Allow passive connection setup only

### Command Mode

- /exec/configure/router-bgp/router-bgp-template-neighbor  
/exec/configure/router-bgp/router-bgp-neighbor-stmp /exec/configure/router-bgp/router-bgp-neighbor  
/exec/configure/router-bgp/router-bgp-vrf-neighbor

# transport email

```
{ transport email { from <s0> | reply-to <s1> | smtp-server { <hostipv4> | <hostipv6> | <hostname> } [ port <i1> ] [ use-vrf <s2> ] } | no transport email smtp-server | no transport email { from | reply-to } }
```

## Syntax Description

no	Negate a command or set its defaults
transport	Configure transport related configuration
email	Configure email transport related configuration
from	Configure from email address
<i>s0</i>	Provide from email address, example: SJ-9500-1@xyz.com
reply-to	Configure replyto email address
<i>s1</i>	Provide reply-to email address, example: admin@xyz.com
smtp-server	Configure SMTP server address
<i>hostname</i>	SMTP server(DNS name or IPv4 or IPv6 address)
<i>hostipv4</i>	IPV4 address of SMTP server
port	(Optional) Configure SMTP server port (default:25)
<i>i1</i>	(Optional) SMTP server port
use-vrf	(Optional) Configure vrf name
<i>s2</i>	(Optional) vrf name

## Command Mode

- /exec/configure/callhome

## transport email mail-server

```
{ [ no ] transport email mail-server { <hostipv4> | <hostipv6> | <hostname> } [ port <i1> ] [ priority <i2> ]
[ use-vrf <s2> ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
transport	Configure transport related configuration
email	Configure email transport related configuration
mail-server	Configure SMTP server address (for supporting multiple SMTP-servers)
<i>hostname</i>	SMTP server(DNS name or IPv4 or IPv6 address)
<i>hostipv4</i>	IPV4 address of SMTP server
port	(Optional) Configure SMTP server port (default:25)
<i>i1</i>	(Optional) SMTP server port
use-vrf	(Optional) Configure vrf name
<i>s2</i>	(Optional) vrf name
priority	(Optional) Configure SMTP server priority (1-100) (default:50)
<i>i2</i>	(Optional) SMTP server priority

### Command Mode

- /exec/configure/callhome

# transport http proxy enable

[no] transport http proxy enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
transport	Configure transport related configuration
http	Configure transport option for http urls
proxy	Configure proxy for http transport
enable	Enable the usage of proxy server for messages sent over http(s)

## Command Mode

- /exec/configure/callhome

## transport http proxy server

```
{ transport http proxy server { <hostname> } [ port <i1> ] } | { no transport http proxy server }
```

### Syntax Description

no	Negate a command or set its defaults
transport	Configure transport related configuration
http	Configure transport option for http urls
proxy	Configure proxy for http transport
server	Configure proxy server address and port
<i>hostname</i>	Proxy server name or IP address(DNS name or IPv4 or IPv6 address)
port	(Optional) Configure Proxy server port (default:8080)
<i>i1</i>	(Optional) Proxy server port

### Command Mode

- /exec/configure/callhome

## transport http use-vrf

transport http use-vrf <s2> | no transport http use-vrf

### Syntax Description

no	Negate a command or set its defaults
transport	Configure transport related configuration
http	Configure transport option for http urls
use-vrf	Configure vrf name
s2	vrf name

### Command Mode

- /exec/configure/callhome

# transport udp

```
{ [ no ] transport udp <portnumber> | no transport udp }
```

## Syntax Description

transport	Transport Destination Port
udp	Destination UDP Port
<i>portnumber</i>	Destination UDP Port

## Command Mode

- /exec/configure/nfm-exporter

# trigger init

```
trigger init { ingress | egress } in-select 3 out-select 0
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/elanms



# trigger init in-select 3 out-select 0 reverse

trigger init { ingress | egress } in-select 3 out-select 0 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
3	outerl2-outerl3-outerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/eamns

# trigger init

trigger init { ingress | egress } in-select 3 out-select 1

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 3 out-select 2
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/alamns

# trigger init

```
trigger init { ingress | egress } in-select 3 out-select 03
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
03	pkt_lsb
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/elanms

# trigger init

trigger init { ingress | egress } in-select 3 out-select 4

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/alamns

# trigger init

trigger init { ingress | egress } in-select 3 out-select 5

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
3	outerl2-outerl3-outerl4

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 3 out-select 5 reverse
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
3	outerl2-outerl3-outerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init

trigger init { ingress | egress } in-select 4 out-select 0

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
4	innerl2-innerl3-innerl4

## Command Mode

- /exec/elanms



# trigger init

```
trigger init { ingress | egress } in-select 4 out-select 0 reverse
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
4	innerl2-innerl3-innerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init

trigger init { ingress | egress } in-select 4 out-select 1

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
4	inner12-inner13-inner14

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 4 out-select 2
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
4	innerl2-innerl3-innerl4

## Command Mode

- /exec/elamns

# trigger init

trigger init { ingress | egress } in-select 4 out-select 3

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
4	innerl2-innerl3-innerl4

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 4 out-select 04
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
04	pkt_msb
4	innerl2-innerl3-innerl4

## Command Mode

- /exec/alamns

# trigger init

```
trigger init { ingress | egress } in-select 4 out-select 5
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
4	innerl2-innerl3-innerl4

## Command Mode

- /exec/elanms

# trigger init

trigger init { ingress | egress } in-select 4 out-select 5 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
4	innerl2-innerl3-innerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init

```
trigger init { ingress | egress } in-select 5 out-select 0
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
5	outerl2-innerl2

## Command Mode

- /exec/elanms



# trigger init

```
trigger init { ingress | egress } in-select 5 out-select 0 reverse
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
5	outerl2-innerl2
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init

```
trigger init { ingress | egress } in-select 5 out-select 1
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
5	outerl2-innerl2

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 5 out-select 2
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
5	outerl2-innerl2

## Command Mode

- /exec/alamns

# trigger init

trigger init { ingress | egress } in-select 5 out-select 3

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
5	outerl2-innerl2

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 5 out-select 4
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
5	outerl2-innerl2

## Command Mode

- /exec/alamns

# trigger init

trigger init { ingress | egress } in-select 5 out-select 05

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
05	sideband
5	outerl2-innerl2

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 5 out-select 05 reverse
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
05	sideband
5	outerl2-innerl2
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init

trigger init { ingress | egress } in-select 6 out-select 0

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
6	outer13-inner13

## Command Mode

- /exec/elanms



# trigger init

```
trigger init { ingress | egress } in-select 6 out-select 0 reverse
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
6	outerl3-innerl3
reverse	Program reverse ELAM

## Command Mode

- /exec/eamns

# trigger init

```
trigger init { ingress | egress } in-select 6 out-select 1
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
6	outer13-inner13

## Command Mode

- /exec/elanms

# trigger init

```
trigger init { ingress | egress } in-select 6 out-select 2
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
6	outerl3-innerl3

## Command Mode

- /exec/alamns

# trigger init

trigger init { ingress | egress } in-select 6 out-select 3

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
6	outer13-inner13

## Command Mode

- /exec/elanms

# trigger init

trigger init { ingress | egress } in-select 6 out-select 4

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
6	outerl3-innerl3

## Command Mode

- /exec/alamns

# trigger init

trigger init { ingress | egress } in-select 6 out-select 5

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
6	outer13-inner13

## Command Mode

- /exec/elanms

# trigger init

trigger init { ingress | egress } in-select 6 out-select 5 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
6	outerl3-innerl3
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger init

trigger init { ingress | egress } in-select 7 out-select 0

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
7	outerl4-innerl4

## Command Mode

- /exec/elanms



# trigger init

trigger init { ingress | egress } in-select 7 out-select 0 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
0	pktrw
7	outerl4-innerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/eamns

# trigger init

```
trigger init { ingress | egress } in-select 7 out-select 1
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
1	pkt_fifo_lsb
7	outerl4-innerl4

## Command Mode

- /exec/elanms

# trigger init

trigger init { ingress | egress } in-select 7 out-select 2

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
2	pkt_fifo_msb
7	outerl4-innerl4

## Command Mode

- /exec/alamns

# trigger init

```
trigger init { ingress | egress } in-select 7 out-select 3
```

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
3	pkt_lsb
7	outerl4-innerl4

## Command Mode

- /exec/elanms

# trigger init

trigger init { ingress | egress } in-select 7 out-select 4

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
4	pkt_msb
7	outerl4-innerl4

## Command Mode

- /exec/alamns

# trigger init

trigger init { ingress | egress } in-select 7 out-select 5

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
7	outer14-inner14

## Command Mode

- /exec/elanms

# trigger init

trigger init { ingress | egress } in-select 7 out-select 5 reverse

## Syntax Description

trigger	Define A Trigger
init	Initialize Trigger
ingress	Ingress Fields
egress	Egress Fields
in-select	in-select
out-select	out-select
5	sideband
7	outerl4-innerl4
reverse	Program reverse ELAM

## Command Mode

- /exec/elamns

# trigger reset

trigger reset

## Syntax Description

trigger	Define A Trigger
reset	Reset triggers

## Command Mode

- /exec/elanms



# trustpoint server-identity

```
{ trustpoint server-identity <tp-server> } | { no trustpoint server-identity [ <tp-server> ] } | { [ no ] trustpoint client-verification <tp-client> }
```

## Syntax Description

no	Negate a command or set its defaults
trustpoint	Trustpoint configuration
server-identity	Server trustpoint
<i>tp-server</i>	Trustpoint name
client-verification	Client trustpoint
<i>tp-client</i>	Trustpoint name

## Command Mode

- /exe/configure/onep/tls

## tunnel destination

tunnel destination { { <ip-addr> | <ip-prefix> | { <ip-addr> <ip-mask> } } | <ipv6-addr> } | no tunnel destination  
 [ <ip-addr> | <ip-prefix> | { <ip-addr> <ip-mask> } | <ipv6-addr> ]

### Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
destination	destination of tunnel packets
<i>ip-addr</i>	IPv4 address (A.B.C.D)
<i>ip-prefix</i>	IPv4 mask (A.B.C.D/LEN)
<i>ip-mask</i>	IPv4 mask A.B.C.D

### Command Mode

- /exec/configure/if-gre-tunnel

# tunnel mode

tunnel mode { { gre [ ip | ipv6 ] } | { ipip [ ip | ipv6 ] } | { ipip decapsulate-any [ ip | ipv6 ] } } | no tunnel mode

## Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
mode	tunnel encapsulation method
gre	generic route encapsulation protocol
ipip	IP in IP protocol
decapsulate-any	decapsulate any
ip	(Optional) over IP
ipv6	(Optional) over IPv6

## Command Mode

- /exec/configure/if-any-tunnel

# tunnel path-mtu-discovery

[no] tunnel path-mtu-discovery

## Syntax Description

no	(Optional) Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
path-mtu-discovery	Enable Path MTU Discovery on tunnel

## Command Mode

- /exec/configure/if-any-tunnel

# tunnel path-mtu-discovery

```
tunnel path-mtu-discovery { { age-timer [ <age-time> | infinite ] } | { min-mtu <mtu> } } | no tunnel
path-mtu-discovery { { age-timer [ <age-time> | infinite ] } | { min-mtu <mtu> } }
```

## Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
path-mtu-discovery	Enable Path MTU Discovery on tunnel
age-timer	Set PMTUD aging timer
<i>age-time</i>	(Optional) Aging time
infinite	(Optional) Disable pathmtu aging timer
min-mtu	Min pmtud mtu allowed
<i>mtu</i>	Bytes

## Command Mode

- /exec/configure/if-any-tunnel

## tunnel source

tunnel source { <intf> | <ip-prefix> | { <ip-addr> [ <ip-mask> ] } | <ipv6-addr> } | no tunnel source [ <intf> | <ip-prefix> | { <ip-addr> [ <ip-mask> ] } | <ipv6-addr> ]

### Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
source	source of tunnel packets
<i>intf</i>	interface
<i>ip-addr</i>	IPv4 address (A.B.C.D)
<i>ip-prefix</i>	IPv4 address (A.B.C.D/LEN)
<i>ip-mask</i>	(Optional) IPv4 mask A.B.C.D

### Command Mode

- /exec/configure/if-gre-tunnel

# tunnel ttl

tunnel ttl <ttl\_val> | no tunnel ttl [ <ttl\_val> ]

## Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
ttl	set time to live
<i>ttl_val</i>	time to line value

## Command Mode

- /exec/configure/if-any-tunnel

## tunnel use-vrf

```
tunnel use-vrf { <vrf-name> | <vrf-known-name> } | no tunnel use-vrf [ { <vrf-name> | <vrf-known-name> } ]
```

### Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
use-vrf	set tunnel vrf membership
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

### Command Mode

- /exec/configure/if-any-tunnel





## U Commands

---

- [udf](#), on page 3159
- [udld aggressive](#), on page 3160
- [udld aggressive](#), on page 3161
- [udld aggressive](#), on page 3162
- [udld aggressive](#), on page 3163
- [udld continue-on-err](#), on page 3164
- [udld disable](#), on page 3165
- [udld disable](#), on page 3166
- [udld enable](#), on page 3167
- [udld enable](#), on page 3168
- [udld message-time](#), on page 3169
- [udld reset](#), on page 3170
- [udp-echo](#), on page 3171
- [udp-jitter](#), on page 3172
- [uniq](#), on page 3174
- [unsuppress-map](#), on page 3175
- [untagged cos](#), on page 3176
- [update-rib-always](#), on page 3177
- [update-source](#), on page 3178
- [update ip route](#), on page 3179
- [update ipv6 route](#), on page 3180
- [update license](#), on page 3181
- [use-vrf](#), on page 3182
- [use-vrf](#), on page 3183
- [use-vrf](#), on page 3184
- [user-jid](#), on page 3185
- [user max-logins](#), on page 3186
- [user max-logins](#), on page 3187
- [username](#), on page 3188
- [username](#), on page 3189
- [username](#), on page 3190
- [username](#), on page 3191
- [username](#), on page 3192

- [username, on page 3193](#)
- [username, on page 3194](#)
- [username, on page 3195](#)
- [username, on page 3196](#)
- [username, on page 3197](#)
- [userpassphrase, on page 3198](#)
- [userpassphrase, on page 3199](#)
- [userprofile, on page 3200](#)
- [userprofile, on page 3201](#)

# udf

```
udf <udf_name> { packet-start | { header { outer | inner } { 13 | 14 } } } <offset> <length> | no udf <udf_name>
[ { packet-start | { header { outer | inner } { 13 | 14 } } } <offset> <length> ]
```

## Syntax Description

no	Negate the command
udf	Define the User Defined Field (UDF)
<i>udf_name</i>	Name of the UDF to configure
packet-start	Offset base from packet-start
header	Offset base configuration
outer	Offset base: from outer header
inner	Offset base: from inner header
13	Offset base: from 13 header
14	Offset base: from 14 header
<i>offset</i>	Enter Offset in bytes for UDF (from offset base)
<i>length</i>	Enter Length in bytes for UDF (from offset)

## Command Mode

- /exec/configure

# udld aggressive

udld aggressive

## Syntax Description

udld	UDLD protocol
aggressive	Enable UDLD aggressive mode on all fiber optic ports

## Command Mode

- /exec/configure

# udld aggressive

[no] udld aggressive

## Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
aggressive	Enable UDLD aggressive mode on all fiber optic ports

## Command Mode

- /exec/configure

# udld aggressive

udld aggressive

## Syntax Description

udld	UDLD protocol
aggressive	Enable UDLD aggressive mode for interface(s)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# udld aggressive

[no] udld aggressive

## Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
aggressive	Enable UDLD aggressive mode for interface(s)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# udld continue-on-err

[no] udld continue-on-err

## Syntax Description

no	(Optional) Negate a command or set its defaults
udld	UDLD protocol
continue-on-err	Force UDLD continue without disabling the port

## Command Mode

- /exec



# udld disable

udld disable

## Syntax Description

udld	UDLD protocol
disable	Disable UDLD for fiber interface(s)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# udld disable

[no] udld disable

## Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
disable	Disable UDLD for fiber interface(s)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# udld enable

udld enable

## Syntax Description

udld	UDLD protocol
enable	Enable UDLD for non-fiber interface(s)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# udld enable

[no] udld enable

## Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
enable	Enable UDLD for non-fiber interface(s)

## Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

# udld message-time

udld message-time <i0> | no udld message-time

## Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
message-time	Setting the time in seconds between UDLD probe messages
<i>i0</i>	Enter the message timer value [default = 15]

## Command Mode

- /exec/configure

# udld reset

udld reset

## Syntax Description

udld	UDLD protocol
reset	Reset all ports shut down by UDLD

## Command Mode

- /exec/configure

# udp-echo

```
[no] udp-echo { <hostname> | <ip-address> } <port> { [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <source-port-number> ] } +
```

## Syntax Description

no	(Optional)
<i>control</i>	(Optional) enable
<i>source-ip-address</i>	(Optional) <source-port-number>
udp-echo	UDP Echo Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>port</i>	Port Number (Recommended port range between 1025-65534)
enable	(Optional) Enable control packets exchange (default)
disable	(Optional) Disable control packets exchange
source-ip	(Optional) Source address
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
source-port	(Optional) Source Port
<i>source-port-number</i>	(Optional) Port Number (Recommended port range between 1025-65534)

## Command Mode

- /exec/configure/ip-sla

# udp-jitter

```
[no] udp-jitter { <hostname> | <ip-address> } <dest-port> { { [ codec { g711alaw | g711ulaw | g729a } { [ advantage-factor <advantage-num> ] [ codec-interval <codec-int> ] [ codec-numpackets <codec-numpack> ] [ codec-size <codec-bytes> ] } } + } [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } + | { [ interval <packet-interval> ] [ num-packets <num-packets> ] [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } } + }
```

## Syntax Description

no	(Optional)
<i>codec</i>	(Optional) g711alaw
<i>codec-numpackets</i>	(Optional) codec-size
<i>source-port</i>	(Optional) interval
<i>codec-numpack</i>	(Optional) <codec-bytes>
<i>source-ip-hostname</i>	(Optional) <source-ip-address>
udp-jitter	UDP Jitter Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>dest-port</i>	Port Number (Recommended port range between 1025-65534)
g711alaw	(Optional) G.711 A Law 64000 bps
g711ulaw	(Optional) G.711 U Law 64000 bps
g729a	(Optional) G.729 8000 bps
advantage-factor	(Optional) Advantage Factor
codec-interval	(Optional) Inter Packet Interval
codec-size	(Optional) Number of bytes in payload
<i>advantage-num</i>	(Optional) Advantage Factor
<i>codec-int</i>	(Optional) Delay
<i>codec-bytes</i>	(Optional) Number of bytes in payload
<i>packet-interval</i>	(Optional) Delay (default 20)
<i>num-packets</i>	(Optional) Number of Packets (default 10)
interval	(Optional) Inter Packet Interval



num-packets	(Optional) Number of Packets to be transmitted
control	(Optional) Enable or disable control packets
enable	(Optional) Enable control packets exchange (default)
disable	(Optional) Disable control packets exchange
source-ip	(Optional) Source address
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed
source-port	(Optional) Source Port
<i>src-port</i>	(Optional) Port Number (Recommended port range between 1025-65534)

**Command Mode**

- /exec/configure/ip-sla

# uniq

uniq [ -c | -d | -f <nb-of-fields> | -s <nb-of-chars> | -u | -w <nb-chars-to-compare> | -i ] +

## Syntax Description

	Pipe command output to filter
uniq	Discard all but one of successive identical lines
-c	(Optional) prefix lines by the number of occurrences
-d	(Optional) only print duplicate lines
-f	(Optional) avoid comparing the first N fields
-s	(Optional) avoid comparing the first N characters
-u	(Optional) only print unique lines
-w	(Optional) compare no more than N characters in lines
-i	(Optional) ignore differences in case when comparing
<i>nb-of-fields</i>	(Optional) number of initial fields to ignore
<i>nb-of-chars</i>	(Optional) number of initial chars to ignore
<i>nb-chars-to-compare</i>	(Optional) max number of chars to compare

## Command Mode

- /output

# unsuppress-map

unsuppress-map <unsupp-rmap-name> | { no | default } unsuppress-map [ <unsupp-rmap-name> ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
unsuppress-map	Route-map to selectively unsuppress suppressed routes
<i>unsupp-rmap-name</i>	Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6  
/exec/configure/router-bgp/router-bgp-af-ipv6-label /exec/configure/router-bgp/router-bgp-af-ipv4-label

# untagged cos

untagged cos <ucos-value> | no untagged cos

## Syntax Description

no	Negate a command or set its defaults
untagged	default to use for untagged packets on interface
cos	IEEE 802.1Q class of service for QoS classification
<i>ucos-value</i>	COS value

## Command Mode

- /exec/configure/if-set-qos

# update-rib-always

[no] update-rib-always

## Syntax Description

no	(Optional) Negate a command or set its defaults
update-rib-always	Force updates to rib

## Command Mode

- /exec/configure/otv-isis

# update-source

update-source <interface> | { no | default } update-source [ <interface> ]

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
update-source	Specify source of BGP session and updates
<i>interface</i>	Interface name

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

# update ip route

update ip route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>

## Syntax Description

update	Update
ip	IPv4
route	Update routing information
vrf	(Optional) 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
all	Update all routes

## Command Mode

- /exec

## update ipv6 route

update ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>

### Syntax Description

update	Update
ipv6	IPv6
route	Update routing information
vrf	(Optional) 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
all	Update all routes

### Command Mode

- /exec



# update license

```
update license <uri0> { <license-file> [ force ] | <s0> }
```

## Syntax Description

update	Update license
license	Update a license file
<i>uri0</i>	Specify URL for the new license file
<i>license-file</i>	License file to be updated
force	(Optional) Force update license (don't prompt)
<i>s0</i>	License file to be updated

## Command Mode

- /exec

# use-vrf

[no] use-vrf { management | default | <vrf\_name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
use-vrf	vrf to be used to contact servers in this group
management	management vrf
default	default vrf
<i>vrf_name</i>	name of the vrf

## Command Mode

- /exec/configure/radius

# use-vrf

[no] use-vrf { <vrf-name> | <vrf-known-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
use-vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

## Command Mode

- /exec/configure/ldap

# use-vrf

[no] use-vrf { management | default | <vrf\_name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
use-vrf	vrf to be used to contact servers in this group
management	management vrf
default	default vrf
<i>vrf_name</i>	name of the vrf

## Command Mode

- /exec/configure/tacacs+

# user-jid

[no] user-jid <jid> password [ 0 <clear> | 7 <encrypted> | <password> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
user-jid	User Jabber ID
<i>jid</i>	Enter user Jabber ID
password	Password
0	(Optional) Password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password
<i>password</i>	(Optional) Enter password in clear text

## Command Mode

- /exec/configure/fabric-db/server-xmpp

# user max-logins

user max-logins <limit>

## Syntax Description

user	Configure system-wide user settings
max-logins	maximum simultaneous logins
<i>limit</i>	login session maximum

## Command Mode

- /exec/configure

# user max-logins

[no] user max-logins [ <limit> ]

## Syntax Description

no	Negate a command or set its defaults
user	Configure system-wide user settings
max-logins	maximum simultaneous logins
<i>limit</i>	(Optional) login session maximum

## Command Mode

- /exec/configure

# username

```
{ username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ priv-lvl <p> ] } | { username
<s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ priv-lvl <p> ] [ expire <s5> [ past ] ] } | { username <s0> [
expire <s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ priv-lvl <p> ] } | { username <s0> [ expire
<s5> [ past ] ] [ priv-lvl <p> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { username <s0> [ priv-lvl <p> ] [
password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ priv-lvl <p> ] [ expire
<s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s6> [ priv-lvl <p> ] }
```

## Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
s0	user name
password	(Optional) Password for the user
0	(Optional) Indicates that the password that follows should be in clear text
s2	(Optional) Password for the user (clear text)
5	(Optional) Indicates that the password that follows should be encrypted
s3	(Optional) strongly encrypted password
s4	(Optional) Password for the user (clear text)
expire	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
s5	(Optional) Expiry in YYYY-MM-DD format
past	(Optional) Expiry date is in past
s6	user name
priv-lvl	(Optional) privilege level which the user is to be assigned to
p	(Optional) privilege level

## Command Mode

- /exec/configure



# username

[no] username <user> password { 0 <pass1> | 5 <pass2> | <pass3> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
username	Configure user name
<i>user</i>	Username
password	Password for user
0	Indicates that the password that follows should be in clear text
<i>pass1</i>	Password for the user (clear text)
5	Indicates that the password that follows should be encrypted
<i>pass2</i>	strongly encrypted password
<i>pass3</i>	Password for the user (clear text)

## Command Mode

- /exec/configure/vmt-conn

# username

```
{ [ no ] username <name> }
```

## Syntax Description

username	user name
<i>name</i>	user name

## Command Mode

- /exec/configure/dot1x-cred

# username

```
{ username <s0> keypair generate { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] } | no username <s0>
keypair generate [ { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] } ] }
```

## Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
<i>s0</i>	user name
generate	Generate ssh key pairs
keypair	Generate SSH User Keys
dsa	Generate DSA keys
force	(Optional) Force the generation of keys even if previous ones are present
rsa	Generate RSA keys
<i>i0</i>	(Optional) Enter number of bits (in multiples of 8)
<i>oldrange</i>	(Optional) Enter number of bits

## Command Mode

- /exec/configure

## username

```
{ username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ role <s6> ] } | { username
<s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] [ expire <s5> [ past ] ] } | { username <s0> [ expire
<s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] } | { username <s0> [ expire <s5> [ past
] ] [ role <s6> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { username <s0> [ role <s6> ] [ password { 0 <s2>
| 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ role <s6> ] [ expire <s5> [ past ] ] [ password
{ 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s7> [ role <s8> ] }
```

### Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
s0	user name
password	(Optional) Password for the user
0	(Optional) Indicates that the password that follows should be in clear text
s2	(Optional) Password for the user (clear text)
5	(Optional) Indicates that the password that follows should be encrypted
s3	(Optional) strongly encrypted password
s4	(Optional) Password for the user (clear text)
expire	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
s5	(Optional) Expiry in YYYY-MM-DD format
past	(Optional) Expiry date is in past
role	(Optional) role which the user is to be assigned to
s6	(Optional) role name
s7	user name
s8	(Optional) role name

### Command Mode

- /exec/configure

# username

```
{ username <s0> { shelltype { vsh | bash } } }
```

## Syntax Description

username	Configure user information.
<i>s0</i>	user name
shelltype	Choose shell type for login
vsh	use vsh shell
bash	use bash shell

## Command Mode

- /exec/configure

# username

```
{ username <s0> sshkey { file <uri0> | <line> } | no username <s0> sshkey }
```

## Syntax Description

username	Configure user information.
<i>s0</i>	user name
sshkey	Update ssh key for the user for ssh authentication
file	ssh key file
<i>uri0</i>	file containing host public key for the user
<i>line</i>	ssh key for the user
no	Negate a command or set its defaults

## Command Mode

- /exec/configure

# username

```
[no] username <s1> ssh-cert-dn <s2> { dsa | rsa }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
username	Configure user information.
<i>s1</i>	user name
ssh-cert-dn	Update cert dn
<i>s2</i>	distinguished name to be used
dsa	Use dsa algorithm
rsa	Use rsa algorithm

## Command Mode

- /exec/configure

# username

```
{ username <s0> keypair import <s1> { dsa | rsa } [ force ] }
```

## Syntax Description

username	Configure user information.
keypair	Use existing ssh keypair
import	Import keypair from Bootflash/Remote directory
force	(Optional) Force the generation of keys even if previous ones are present
dsa	Use DSA Keys
rsa	Use RSA Keys
<i>s0</i>	user name
<i>s1</i>	Enter filename to import

## Command Mode

- /exec/configure



# username

```
{ username <s0> keypair export <s1> { dsa | rsa } [ force ] }
```

## Syntax Description

username	Configure user information.
keypair	Use existing ssh keypair
export	Export keypair to Bootflash/Remote directory
force	(Optional) Force the export of keys even if the destination files are present
dsa	Use DSA Keys
rsa	Use RSA Keys
<i>s0</i>	user name
<i>s1</i>	Enter filename to export to

## Command Mode

- /exec/configure

# userpassphrase

userpassphrase { min-length <min-len> | max-length <max-len> } +

## Syntax Description

userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
<i>min-len</i>	minimum length of passphrase
<i>max-len</i>	maximum length of passphrase

## Command Mode

- /exec/configure

# userpassphrase

[no] userpassphrase { min-length | max-length | length }

## Syntax Description

no	Negate a command or set its defaults
userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
length	passphrase min and max length

## Command Mode

- /exec/configure

# userprofile

userprofile | trustedCert | CRLLookup | user-switch-bind | user-certdn-match | user-pubkey-match }

## Syntax Description

no	Negate a command or set its defaults
userprofile	Delete the userprofile
trustedCert	Delete the trustedCert
CRLLookup	Delete the CRLLookup
user-switch-bind	Delete the user-switch-bind
user-certdn-match	Delete the certificate matching
user-pubkey-match	Delete the pubkey matching

## Command Mode

- /exec/configure/ldap/search

# userprofile

{ userprofile | trustedCert | CRLLookup | user-switch-bind | user-certdn-match | user-pubkey-match }  
attribute-name <s0> search-filter <s1> base-DN <s2>

## Syntax Description

userprofile	Set the userprofile
trustedCert	Set the trustedCert
CRLLookup	Set the CRLLookup
user-switch-bind	Set the user-switch-bind
user-certdn-match	Set the certificate matching
user-pubkey-match	Set the pubkey matching
attribute-name	LDAP attribute-name
<i>s0</i>	Search Map attribute-name
search-filter	LDAP search-filter
<i>s1</i>	Search Map search-filter
base-DN	LDAP base-DN
<i>s2</i>	Search Map base-DN Name

## Command Mode

- /exec/configure/ldap/search





## V Commands

---

- [validate-xml](#), on page 3205
- [variance](#), on page 3206
- [vdp dot1q](#), on page 3207
- [vdp dot1q default](#), on page 3208
- [vdp vni](#), on page 3209
- [vdp vni default](#), on page 3210
- [verify-data](#), on page 3211
- [verify](#), on page 3212
- [verify profile](#), on page 3213
- [verify verbose](#), on page 3214
- [version](#), on page 3215
- [version 5](#), on page 3216
- [version 9](#), on page 3217
- [virtual-service](#), on page 3218
- [virtual-service](#), on page 3219
- [virtual-service](#), on page 3220
- [virtual-service connect name](#), on page 3221
- [virtual-service move name](#), on page 3222
- [virtual-service reset force](#), on page 3223
- [virtual IPv6](#), on page 3224
- [virtual ip](#), on page 3225
- [vlan-group](#), on page 3226
- [vlan](#), on page 3227
- [vlan root priority](#), on page 3228
- [vlan \(anycast\)](#), on page 3229
- [vlan access-map](#), on page 3230
- [vlan filter](#), on page 3231
- [vmtracker connection](#), on page 3232
- [vmtracker connection](#), on page 3233
- [vmtracker enable](#), on page 3234
- [vmtracker fabric auto-config](#), on page 3235
- [vmtracker set device-id](#), on page 3236
- [vn-segment](#), on page 3237

- vni, on page 3238
- vni default dynamic, on page 3239
- vpc, on page 3240
- vpc domain, on page 3241
- vpc orphan-port suspend, on page 3242
- vpc peer-link, on page 3243
- vpc role preempt, on page 3244
- vpc suspend, on page 3245
- vpc upgrade-done, on page 3246
- vpn, on page 3247
- vrf, on page 3248
- vrf (router-ospf3), on page 3249
- vrf local-label prefix, on page 3250
- vrf local-label, on page 3251
- vrf (router-eigrp), on page 3252
- vrf (router-bgp), on page 3253
- vrf (dns), on page 3254
- vrf (router-ospf), on page 3255
- vrf (profile-map-global), on page 3256
- vrf (itd), on page 3257
- vrf (router-isis), on page 3258
- vrf context, on page 3259
- vrf default, on page 3260
- vrf member, on page 3261
- vrf member (if-mgmt-ether), on page 3262
- vrrp, on page 3263
- vrrp bfd, on page 3264
- vrrpv2, on page 3265
- vrrpv3, on page 3266
- vrrpv3, on page 3267
- vrrs leader, on page 3268
- vrrs pathway, on page 3269



# validate-xml

validate-xml

## Syntax Description

	Pipe command output to filter
validate-xml	validate an xml output according to .xsd definitions

## Command Mode

- /output

# variance

{ { variance <variance> } | { no variance [ <variance> ] } }

## Syntax Description

no	Negate a command or set its defaults
variance	Control load balancing variance
<i>variance</i>	Metric variance multiplier

## Command Mode

- /exec/configure/router-igrp/router-igrp-vrf-common /exec/configure/router-igrp/router-igrp-af-common

# vdp dot1q

```
{ vdp dot1q <vlan-id> { static <profile-name> | dynamic } } | { no vdp dot1q <vlan-id> }
```

## Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	

## Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

## vdp dot1q default

```
{ vdp dot1q default { static <profile-name> | dynamic } } | { no vdp dot1q default }
```

### Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
default	Default (wildcard). Match any dot1q when there is no specific dot1q mapping configured

### Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# vdp vni

```
{ vdp vni <vni-id> { static <profile-name> | dynamic } } | { no vdp vni <vni-id> }
```

## Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
vni	Virtual Network Identifier
<i>vni-id</i>	
static	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
<i>profile-name</i>	

## Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

## vdp vni default

```
{ vdp vni default { static <profile-name> | dynamic } } | { no vdp vni default }
```

### Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
vni	Virtual Network Identifier
static	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
<i>profile-name</i>	
default	Default (wildcard). Match any vni when there is no specific vni mapping configured

### Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# verify-data

{ { no | default } verify-data | verify-data }

## Syntax Description

no	
default	Set a command to its defaults
verify-data	Verify data

## Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/icmpEcho

# verify

verify

## Syntax Description

verify	Verify the current configuration session
--------	------------------------------------------

## Command Mode

- /exec/configure



# verify profile

verify profile <all\_conf\_profile\_name> [ \_\_readonly\_\_ ]

## Syntax Description

verify	Verify the instance with a configuration profile
profile	Name of the configuration profile
<i>all_conf_profile_name</i>	Enter the name of configuration profile
__readonly__	(Optional)

## Command Mode

- /exec/configure/param-inst

# verify verbose

verify verbose

## Syntax Description

verify	Verify the current configuration session
verbose	Verify the current configuration session with more details

## Command Mode

- /exec/configure

# version

[no] version <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
version	Version info
s0	Version

## Command Mode

- /exec/configure

# version 5

[no] version 5

## Syntax Description

version	Specify the export version
5	Version 5 Export

## Command Mode

- /exec/configure/nfm-exporter

# version 9

[no] version 9

## Syntax Description

version	Specify the export version
9	Version 9 Export

## Command Mode

- /exec/configure/nfm-exporter

# virtual-service

[no] virtual-service

## Syntax Description

no	(Optional) Negate a command or set its defaults
virtual-service	Virtual service global settings

## Command Mode

- /exec/configure

# virtual-service

[no] virtual-service <virt\_serv\_name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
virtual-service	Configure a virtual service
<i>virt_serv_name</i>	Virtual service name

## Command Mode

- /exec/configure

## virtual-service

```
virtual-service { { install name <virt_serv_name> package <file_uri> [ media <target_media> ] } | { upgrade
name <virt_serv_name> package <file_uri> } | { uninstall name <virt_serv_name> } }
```

### Syntax Description

virtual-service	Virtualization manager actions
install	Add a virtual service to install database
upgrade	Upgrade a virtual service package to a different version
name	Name of the virtual service
<i>virt_serv_name</i>	Virtual service name
package	Package location
<i>file_uri</i>	File name (with .ova extension) for the virtual service
media	(Optional) Target media to use to explode the virtual service package
<i>target_media</i>	(Optional) Target media
uninstall	Remove a virtual service from the install database

### Command Mode

- /exec



## virtual-service connect name

virtual-service connect name <virt\_serv\_name> { console | aux }

### Syntax Description

virtual-service	Virtualization service actions
connect	Request a virtual service shell
name	Name of the virtual service
<i>virt_serv_name</i>	Name of existing virtual service
console	Request a virtual service console shell
aux	Request a virtual service auxiliary console shell

### Command Mode

- /exec

## virtual-service move name

virtual-service move name <virt\_serv\_name> { log | core } to <dir\_uri>

### Syntax Description

virtual-service	Virtualization service actions
move	Move a virtual service log or core files
name	Name of the virtual service
<i>virt_serv_name</i>	Name of existing virtual service
log	Move log files
core	Move core files
to	Destination directory to move log or core files to
<i>dir_uri</i>	Destination directory name

### Command Mode

- /exec

# virtual-service reset force

virtual-service reset force

## Syntax Description

virtual-service	Virtualization service actions
reset	Virtualization reset commands
force	Force a non-recoverable reset of all virtualization files

## Command Mode

- /exec

## virtual IPv6

```
[no] virtual IPv6 { <ip-addr> { <prefix> | <netmask> } } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp
| advertise } { enable | disable } ]
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
virtual	ITD virtual ip configuration
IPv6	ITD virtual IPv6
<i>prefix</i>	IPv6 prefix length
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable

### Command Mode

- /exec/configure/itd

# virtual ip

```
[no] virtual ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp | advertise } { enable | disable } ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
virtual	ITD virtual ip configuration
ip	ITD virtual ip
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable

## Command Mode

- /exec/configure/itd

# vlan-group

[no] vlan-group <vlan-group-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
vlan-group	vlan groups
<i>vlan-group-name</i>	vlan group name

## Command Mode

- /exec/configure/agni-ace

# vlan

{ vlan <vlan-id> | bridge-domain <bd-id> } designated priority <prio> | no { vlan <vlan-id> | bridge-domain <bd-id> } designated priority [ <prio> ]

## Syntax Description

no	Negate a command or set its defaults
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
designated	Set the designated bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

## Command Mode

- /exec/configure/spanning-tree/pseudo

## vlan root priority

```
{ vlan <vlan-id> | bridge-domain <bd-id> } root priority <prio> | no { vlan <vlan-id> | bridge-domain <bd-id> } root priority [ <prio> ]
```

### Syntax Description

no	Negate a command or set its defaults
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
root	Set the root bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

### Command Mode

- /exec/configure/spanning-tree/pseudo



# vlan (anycast)

vlan <vlans> | no vlan

## Syntax Description

no	Negate a command or set its defaults
vlan	Set allowed fabricpath VLANs for a given anycast bundle
<i>vlans</i>	VLAN IDs of the allowed fabricpath VLANs in the anycast bundle

## Command Mode

- /exec/configure/anycast

# vlan access-map

[no] vlan access-map <name> [ <seqno> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	Vlan commands
<i>name</i>	List name
access-map	Configure a VLAN access map
<i>seqno</i>	(Optional) Sequence number

## Command Mode

- /exec/configure

# vlan filter

[no] vlan filter <name> { vlan-list <vlans> | vlan-list-include-reserved <vlans-include-reserved> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	Vlan commands
filter	Specify access control for packets
<i>name</i>	List name
vlan-list	Specify list of VLANs to apply access control
<i>vlans</i>	List of VLANs
vlan-list-include-reserved	Specify list of VLANs to apply access control
<i>vlans-include-reserved</i>	List of VLANs

## Command Mode

- /exec/configure

## vmtracker connection

[no] vmtracker connection <connection-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
connection	Specify a host to connect
<i>connection-name</i>	VM host name

### Command Mode

- /exec/configure

# vmtracker connection

[no] vmtracker connection <connection-name> refresh

## Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
connection	Specify a host to connect
<i>connection-name</i>	VM host name
refresh	Refresh all host related information

## Command Mode

- /exec/configure

# vmtracker enable

[no] vmtracker enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker feature
enable	Enable vmtracker feature on interface

## Command Mode

- /exec/configure/if-switching

# vmtracker fabric auto-config

[no] vmtracker fabric auto-config

## Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
fabric	Enable VM Tracker Fabric paramters
auto-config	Enable VM Tracker Fabric AutoConfiguration

## Command Mode

- /exec/configure

# vmtracker set device-id

[no] vmtracker set device-id <dev-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
set	Set vmtracker options
device-id	Set the device-id
<i>dev-id</i>	Device id

## Command Mode

- /exec/configure



# vn-segment

vn-segment <segment-id> | no vn-segment

## Syntax Description

no	Negate a command or set its defaults
vn-segment	VN Segment id of the VLAN
<i>segment-id</i>	segment-id

## Command Mode

- /exec/configure/vlan

# vni

{ vni <id> } | { no vni [ <id> ] }

## Syntax Description

no	Negate a command or set its defaults
vni	Virtual Network Identifier
<i>id</i>	vni, Example: 4096,6099

## Command Mode

- /exec/configure/vrf

# vni default dynamic

{ vni default dynamic } | { no vni default }

## Syntax Description

no	Negate a command or set its defaults
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
vni	Virtual Network Identifier
default	Default (wildcard). Match any vni when there is no specific vni mapping configured

## Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

# vpc

vpc [ <vpc\_num> ] | no vpc [ <vpc\_num> ]

## Syntax Description

no	Negate a command or set its defaults
vpc	Virtual Port Channel configuration
<i>vpc_num</i>	(Optional) specify a Virtual Port Channel number

## Command Mode

- /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel

# vpc domain

vpc domain <domain\_id> | no vpc domain <domain\_id>

## Syntax Description

no	Negate a command or set its defaults
vpc	Virtual Port Channel configuration
domain	Specify domain
<i>domain_id</i>	domain id

## Command Mode

- /exec/configure

# vpc orphan-port suspend

[no] vpc orphan-port suspend

## Syntax Description

no	(Optional) Negate a command or set its defaults
vpc	Virtual Port Channel configuration
orphan-port	orphan-port (non-vpc port)
suspend	suspend - when vPC secondary peerlink goes down

## Command Mode

- /exec/configure/if-eth-phy

# vpc peer-link

vpc peer-link | no vpc peer-link

## Syntax Description

no	Negate a command or set its defaults
vpc	Virtual Port Channel configuration
peer-link	specify if this link is used for peer communication

## Command Mode

- /exec/configure/if-eth-port-channel-switch

# vpc role preempt

vpc role preempt

## Syntax Description

vpc	Virtual Port Channel configuration
role	vPC role related command
preempt	Enable/Trigger preemption of lower priority master

## Command Mode

- /exec



# vpc suspend

vpc suspend [ <n-secs> ]

## Syntax Description

vpc	Virtual Port Channel configuration
suspend	Suspend the vPC on primary
<i>n-secs</i>	(Optional) Suspension duration in seconds

## Command Mode

- /exec/configure/vpc-domain

# vpc upgrade-done

vpc upgrade-done

## Syntax Description

vpc	Virtual Port Channel configuration
upgrade-done	Unlock the cli and remove ISSU state

## Command Mode

- /exec

# vpn

[no] vpn <otv-isis-vpn-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
vpn	Configure IS-IS VPN name eg: Overlay<x>
<i>otv-isis-vpn-name</i>	Overlay name

## Command Mode

- /exec/configure/otv-isis

# vrf

[no] vrf <vrf-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure RIP VRF information
<i>vrf-name</i>	

## Command Mode

- /exec/configure/router-rip

## vrf (router-ospf3)

[no] vrf <vrf-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Display per-VRF information
<i>vrf-name</i>	

### Command Mode

- /exec/configure/router-ospf3

## vrf local-label prefix

```
no ] { [ vrf { <vrf-name> | <vrf-known-name> } ] local-label <static-inlabel> prefix { <prefix> <mask> | <prefix-mask> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	(Optional) VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
local-label	Configure local label assignment and forwarding
<i>static-inlabel</i>	Label Value
prefix	For a given prefix
<i>prefix</i>	Destination prefix
<i>mask</i>	Destination prefix mask
<i>prefix-mask</i>	Destination prefix/mask

### Command Mode

- /exec/configure/mpls\_static/ipv4

## vrf local-label

```
no ] { [ vrf { <vrf-name> | <vrf-known-name> } ] local-label <static-inlabel> prefix { <ipv6-prefix-mask> } }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	(Optional) VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
local-label	Configure local label assignment and forwarding
<i>static-inlabel</i>	Label Value
prefix	For a given prefix

### Command Mode

- /exec/configure/mpls\_static/ipv6

## vrf (router-eigrp)

[no] vrf <vrf-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure VRF information
<i>vrf-name</i>	

### Command Mode

- /exec/configure/router-eigrp



## vrf (router-bgp)

[no] vrf <vrf-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Virtual Router Context
<i>vrf-name</i>	

### Command Mode

- /exec/configure/router-bgp

## vrf (dns)

{ { no | default } vrf |

### Syntax Description

no	
default	Set a command to its defaults
vrf	Configure IP SLAs for a VPN Routing/Forwarding instance

### Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp  
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns

## vrf (router-ospf)

[no] vrf <vrf-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Display per-VRF information
<i>vrf-name</i>	

### Command Mode

- /exec/configure/router-ospf

## vrf (profile-map-global)

```
{ vrf <vrf-name> { static <profile-name> | dynamic } } | { no vrf <vrf-name> }
```

### Syntax Description

no	Negate a command or set its defaults
vrf	VRF name
<i>vrf-name</i>	VRF name
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server

### Command Mode

- /exec/configure/profile-map-global

# vrf (itd)

{ vrf <name> } | { no vrf <name> }

## Syntax Description

no	Negate a command or set its defaults
vrf	ITD service vrf
<i>name</i>	ITD Service VRF name

## Command Mode

- /exec/configure/itd

## vrf (router-isis)

[no] vrf <vrf-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure ISIS VRF information
<i>vrf-name</i>	

### Command Mode

- /exec/configure/router-isis

# vrf context

vrf context <vrf-name> | no vrf context { <vrf-name> | <vrf-name> }

## Syntax Description

no	Negate a command or set its defaults
vrf	Configure VRF parameters
context	Create VRF and enter VRF mode
<i>vrf-name</i>	
<i>vrf-name</i>	
<i>vrf-name</i>	

## Command Mode

- /exec/configure

## vrf default

```
{ vrf default { static <profile-name> | dynamic } } | { no vrf default }
```

### Syntax Description

no	Negate a command or set its defaults
vrf	VRF name
default	Default (wildcard). Match any vrf when there is no specific vrf mapping configured
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	
dynamic	Dynamic Profile Map: Retrieve profile name from the external server

### Command Mode

- /exec/configure/profile-map-global



# vrf member

vrf member { <vrf\_name> | <vrf-known-name> } | no vrf member [ <vrf\_name> | <vrf-known-name> ]

## Syntax Description

no	Negate a command or set its defaults
vrf	Configure VPN Routing/Forwarding table
member	Set route's VRF membership
<i>vrf_name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

## Command Mode

- /exec/configure/track

## vrf member (if-mgmt-ether)

vrf member <vrf-name> | no vrf member [ <vrf-name> ]

### Syntax Description

no	Negate a command or set its defaults
vrf	Configure VRF parameters
member	Set interface's VRF membership
<i>vrf-name</i>	

### Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-ether

# vrrp

[no] vrrp <vr\_id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
vrrp	VRRP configuration commands
<i>vr_id</i>	IPv4 VR group number

## Command Mode

- /exec/configure/if-legacy-eth /exec/configure/if-ethernet /exec/configure/if-port-channel /exec/configure/if-vlan-common /exec/configure/if-eth-any

# vrrp bfd

```
{ vrrp bfd <peer_intf_ip> | no vrrp bfd [ <peer_intf_ip> ] }
```

## Syntax Description

vrrp	VRRP configuration commands
bfd	BFD protocol
<i>peer_intf_ip</i>	Neighbor IP address
no	Negate a command or set its defaults

## Command Mode

- /exec/configure/if-eth-any/vrrp

# vrrpv2

[no] vrrpv2

## Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv2	Enable VRRPv2 compatibility mode

## Command Mode

- /exec/configure/if-eth-any/vrrpv3

# vrrpv3

[no] vrrpv3

## Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv3	VRRPv3 configuration commands

## Command Mode

- /exec/configure

# vrrpv3

[no] vrrpv3 <group\_id> address-family <opt\_v4\_or\_v6>

## Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv3	Configure VRRPv3 group parameters
address-family	IP address family
<i>opt_v4_or_v6</i>	Enter ipv4 or ipv6
<i>group_id</i>	VRRP Group ID

## Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

# vrrs leader

[no] vrrs leader <tag>

## Syntax Description

no	(Optional) Negate a command or set its defaults
vrrs	VRRS-related commands
leader	Name of VRRS tag for which this group is the leader
<i>tag</i>	VRRS tag to lead

## Command Mode

- /exec/configure/if-eth-any/vrrpv3



## vrrs pathway

[no] vrrs pathway <name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
vrrs	VRRS Interface configuration commands
pathway	Configure a VRRS pathway
<i>name</i>	Name of the VRRS tag to associate with pathway

### Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan





## W Commands

---

- [watch](#), on page 3272
- [wc](#), on page 3273
- [weight \(bgp\)](#), on page 3274
- [weight](#), on page 3275
- [weighting](#), on page 3276
- [where](#), on page 3277
- [where detail](#), on page 3278
- [which](#), on page 3279
- [wide-metric-only](#), on page 3280
- [wred-queue qos-group-map queue-only](#), on page 3281
- [write erase](#), on page 3282
- [write erase boot](#), on page 3283
- [wrr unicast-bandwidth](#), on page 3284

# watch

```
watch [ differences ] [ interval <time> ] <watch_cmd>
```

## Syntax Description

<code>watch</code>	execute a program periodically
<code>differences</code>	(Optional) highlight the differences
<code>interval</code>	(Optional) watch interval
<code>time</code>	(Optional) interval in seconds
<code>watch_cmd</code>	enter the command you want to watch

## Command Mode

- /exec

# WC

wc [ -c | -l | -w ]

## Syntax Description

	Pipe command output to filter
wc	Count words, lines, characters
-c	(Optional) Output character count
-l	(Optional) Output line count
-w	(Optional) Output word count

## Command Mode

- /output

## weight (bgp)

```
{ weight <weight> } | { { no | default } weight [ <weight> ] }
```

### Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
weight	Set default weight for routes from this neighbor
<i>weight</i>	Default weight

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6

# weight

[no] weight <weight-value>

## Syntax Description

no	(Optional) Negate a command or set its defaults
weight	weight for traffic distribution
<i>weight-value</i>	weight value

## Command Mode

- /exec/configure/itd-dg-node

# weighting

```
weighting { <weight-max-val> [ lower <low-thresh> [ upper <upper-thresh> ] | upper <upper-thresh> ] | track
<track-obj> [ decrement <dec-val> ] } | no weighting [ { <weight-max-val> [ lower <low-thresh> [ upper
<upper-thresh> ] | upper <upper-thresh> ] | track <track-obj> [ decrement <dec-val> ] } ]
```

## Syntax Description

no	Negate a command or set its defaults
weighting	Gateway weighting and tracking
<i>weight-max-val</i>	Weighting maximum value
lower	(Optional) Weighting lower threshold
<i>low-thresh</i>	(Optional) Weighting lower threshold value
upper	(Optional) Weighting upper threshold
<i>upper-thresh</i>	(Optional) Weighting upper threshold value
track	Interface tracking
<i>track-obj</i>	Tracked object
decrement	(Optional) Weighting decrement
<i>dec-val</i>	(Optional) Decrement value 1 255

## Command Mode

- /exec/configure/if-eth-any/glbp



# where

where

## Syntax Description

where	shows the cli context you are in
-------	----------------------------------

## Command Mode

- /global

# where detail

where detail

## Syntax Description

where	shows the cli context you are in
detail	shows each entry on separate line

## Command Mode

- /global

# which

which

## Syntax Description

which	shows which cli commands are available in current mode (see also 'show cli syntax' which has more options)
-------	------------------------------------------------------------------------------------------------------------

## Command Mode

- /global

# wide-metric-only

[no] wide-metric-only

## Syntax Description

no	(Optional) Negate a command or set its defaults
wide-metric-only	Advertise only wide metric

## Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

## wred-queue qos-group-map queue-only

[no] wred-queue qos-group-map queue-only { <qid> }

### Syntax Description

no	(Optional) Negate the command
wred-queue	Enable queue based ECN marking for specific qos-group
queue-only	Enable queue based ECN marking
qos-group-map	Qid value
<i>qid</i>	Provide qos-group value

### Command Mode

- /exec/configure

# write erase

write erase

## Syntax Description

write	Write current configuration
erase	Destroys the configuration on persistent media

## Command Mode

- /exec

## Usage Guidelines

You can erase the configuration on your device to return to the configuration defaults. In this context, **configuration** refers to the startup configuration as displayed by the **show startup** command. No other internal application or process states are cleared.

# write erase boot

write erase boot

## Syntax Description

write	Write current configuration
erase	Destroys the configuration on persistent media
boot	Destroys boot configuration on persistent media

## Command Mode

- /exec

## wrr unicast-bandwidth

[no] wrr unicast-bandwidth <bw>

### Syntax Description

no	(Optional) Negate the command
wrr	Configure Unicast Traffic Bandwidth Percentage
unicast-bandwidth	Specify rate as percentage of interface data-rate
<i>bw</i>	Value in percentage (Default is set to 50)

### Command Mode

- /exec/configure





## X Commands

---

- [xml](#), on page 3286
- [xml server exec-mode](#), on page 3287
- [xml server max-session](#), on page 3288
- [xml server terminate session](#), on page 3289
- [xml server timeout](#), on page 3290
- [xml server validate](#), on page 3291
- [xmlin](#), on page 3292
- [xmlin \(output\)](#), on page 3293

# xml

xml

## Syntax Description

	Pipe command output to filter
xml	output in xml format (according to .xsd definitions)

## Command Mode

- /output

# xml server exec-mode

[no] xml server exec-mode

## Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
exec-mode	Enable returning to exec mode after processing XML request

## Command Mode

- /exec/configure

## xml server max-session

[no] xml server max-session <number>

### Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
max-session	configure maximum number of xml sessions allowed
<i>number</i>	number of the sessions

### Command Mode

- /exec/configure

# xml server terminate session

xml server terminate session <session\_id>

## Syntax Description

xml	xml agent
server	xml agent server
terminate	command to terminate an XML session
session	terminate an XML session
<i>session_id</i>	sessions number

## Command Mode

- /exec

## xml server timeout

[no] xml server timeout <value> [ <session\_id> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
timeout	configure xml agent session timeout
<i>value</i>	timeout in seconds
<i>session_id</i>	(Optional) xml agent session id

### Command Mode

- /exec/configure

# xml server validate

[no] xml server validate { all | <session\_id> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
validate	command to validate an XML session
all	all sessions
<i>session_id</i>	session number

## Command Mode

- /exec/configure

# xmlin

xmlin

## Syntax Description

xmlin	Convert CLI commands to their XML formats
-------	-------------------------------------------

## Command Mode

- /exec



# xmlin (output)

xmlin

## Syntax Description

	Pipe command output to filter
xmlin	Convert CLI show commands to their XML formats

## Command Mode

- /output

