



Cisco IOS XR Commands Master List, Release 4.1

This page contains an alphabetical list of all the commands documented for the Cisco ASR 9000 Series Aggregation Services Router running Cisco IOS XR Release 4.0 software. Use the **Alphabet Key** or your web browser's Find function to search for a command. To access the documentation for a particular command, click on the command name.

A

- [aaa accounting](#)
- [aaa accounting system default](#)
- [aaa accounting update](#)
- [aaa authentication](#)
- [aaa authorization](#)
- [aaa default-taskgroup](#)
- [aaa group server radius](#)
- [aaa group server tacacs+](#)
- [abort](#)
- [abort \(RPL\)](#)
- [absolute-timeout](#)
- [accept-lifetime](#)
- [accept-mode](#)
- [accept-register](#)
- [accept-tolerance](#)
- [access-class](#)
- [access-group \(IGMP snooping profile\)](#)
- [access-group \(IGMP\)](#)
- [access-group \(NTP\)](#)
- [access-list](#)
- [accounting \(IKE\)](#)
- [accounting \(line\)](#)
- [accounting per-prefix](#)
- [accounting per-prefix forward-only](#)
- [acl](#)
- [action \(IP SLA\)](#)
- [action \(VPLS\)](#)
- [action capabilities-conflict](#)
- [action critical-event](#)
- [action discovery-timeout](#)
- [action dying-gasp](#)
- [action high-threshold](#)
- [action remote-loopback](#)
- [action session-down](#)
- [action session-up](#)
- [action uni-directional link-fault](#)
- [action wiring-conflict](#)
- [active](#)
- [add](#)
- [additional-paths receive](#)
- [additional-paths selection](#)
- [additional-paths send](#)
- [address](#)
- [address \(VRRP\)](#)
- [address global](#)
- [address ipv4 \(MPP\)](#)
- [address ipv6 \(MPP\)](#)
- [address linklocal](#)
- [address secondary](#)
- [address-family](#)
- [address-family \(BGP\)](#)
- [address-family \(EIGRP\)](#)
- [address-family \(IS-IS\)](#)
- [address-family \(OSPF\)](#)
- [address-family \(OSPFv3\)](#)

address-family (multicast)
address-family (static)
address-family ipv4 unicast (BFD)
address-family multicast topology (IS-IS)
address-family next-hop dampening disable
adjacency stagger
adjacency-check disable
adjustment-threshold (MPLS-TE)
admin
admin-state
admin-weight
advertisement-interval
af-group
affinity
affinity-map
ageout
aggregate
aggregate-address
aging (VPLS)
aigp
aigp send-cost-community
ais transmission
ais transmission up
ais-shut (SONET path)
ais-shut (SONET)
alarm
alert-group disable
alias
all-alarms
all-of-router
allocate-label
allow
allowas-in
ancp
ancp an-port circuit-id
ancp neighbor
ancp rate-adjustment
ancp server sender-name
application (MPLS-TE)
apply
apply-template
aps group
aps group (global)
aps-channel
archive-length
archive-size
area (OSPF)
area (OSPFv3)
arp
arp dagr
arp purge-delay
arp timeout
as-format
as-override
as-path in
as-path is-local
as-path length
as-path neighbor-is
as-path originates-from
as-path passes-through
as-path unique-length
as-path-set
attribute-flags
attribute-names
attribute-set
au
authenticate (NTP)
authenticate (PGP)
authentication (IKE policy)
authentication (OSPF)
authentication (OSPFv3)
authentication (RSVP)
authentication keychain
authentication-key (NTP)
authentication-key (OSPF)
authorization
auto-bw (MPLS-TE)
auto-bw collect frequency (MPLS-TE)

[auto-cost \(OSPF\)](#)
[auto-cost \(OSPFv3\)](#)
[auto-rp candidate-rp](#)
[auto-summary \(EIGRP\)](#)
[auto-summary \(RIP\)](#)
[auto-tunnel backup \(MPLS-TE\)](#)
[autocommand](#)
[autodiscovery bgp](#)
[autonomous-system](#)
[autoroute announce](#)
[autoroute metric](#)

B

[b3-ber-prdi](#)
[backbone interface](#)
[backbone-source-mac](#)
[backoff](#)
[backup \(L2VPN\)](#)
[backup disable \(L2VPN\)](#)
[backup-bw](#)
[backup-path tunnel-te](#)
[bandwidth \(QoS\)](#)
[bandwidth \(RSVP\)](#)
[bandwidth \(global\)](#)
[bandwidth mam \(RSVP\)](#)
[bandwidth rdm \(RSVP\)](#)
[bandwidth remaining](#)
[bandwidth-percent \(EIGRP\)](#)
[banner exec](#)
[banner incoming](#)
[banner login](#)
[banner motd](#)
[banner prompt-timeout](#)
[bert e1](#)
[bert e3](#)
[bert error](#)
[bert interval](#)
[bert pattern](#)
[bert t1](#)
[bert t3](#)
[bfd](#)
[bfd \(BGP\)](#)
[bfd address-family ipv4 destination](#)
[bfd address-family ipv4 fast-detect](#)
[bfd address-family ipv4 mi](#)
[bfd address-family ipv4 multiplier](#)
[bfd address-family ipv4 timers](#)
[bfd fast-detect](#)
[bfd minimum-interval](#)
[bfd minimum-interval \(VRRP\)](#)
[bfd multiplier](#)
[bfd multiplier \(VRRP\)](#)
[bgp as-path-loopcheck](#)
[bgp attribute-download](#)
[bgp auto-policy-soft-reset disable](#)
[bgp bestpath as-path ignore](#)
[bgp bestpath compare-routerid](#)
[bgp bestpath cost-community ignore](#)
[bgp bestpath med always](#)
[bgp bestpath med confed](#)
[bgp bestpath med missing-as-worst](#)
[bgp client-to-client reflection disable](#)
[bgp cluster-id](#)
[bgp confederation identifier](#)
[bgp confederation peers](#)
[bgp dampening](#)
[bgp default local-preference](#)
[bgp enforce-first-as disable](#)
[bgp fast-external-fallover disable](#)
[bgp graceful-restart](#)
[bgp graceful-restart graceful-reset](#)
[bgp graceful-restart purge-time](#)
[bgp graceful-restart restart-time](#)
[bgp graceful-restart stalepath-time](#)
[bgp import-delay](#)
[bgp label-delay](#)
[bgp log neighbor changes disable](#)

bgp maximum neighbor
 bgp redistribute-internal
 bgp router-id
 bgp scan-time
 bgp update-delay
 bgp write-limit
 boundary
 bridge group (VPLS)
 bridge-domain (VPLS)
 bridge-id
 bringup delay
 broadcast
 broadcast client
 broadcast-for-v2
 broadcastdelay
 bsr candidate-bsr
 bsr candidate-rp
 bsr-border
 buckets (history)
 buckets (statistics hourly)
 buckets (statistics interval)
 buckets archive
 buckets size
 bundle
 bundle id
 bundle load-balancing hash
 bundle load-balancing hash (EFP)
 bundle maximum-active links
 bundle minimum-active bandwidth
 bundle minimum-active links
 bundle port-priority
 bundle-hash
 bw-limit (MPLS-TE)
 call-home
 call-home request
 call-home send
 call-home send alert-group inventory
 call-home test
 capability additional-paths receive
 capability additional-paths send
 capability opaque disable
 capability orf prefix
 capability suppress 4-byte-as
 carrier-delay
 cd
 cdp
 cdp advertise v1
 cdp holdtime
 cdp log adjacency changes
 cdp timer
 cfs check
 channel local
 channel remote
 channel-group
 child-conform-aware
 cinetd rate-limit
 circuit-type
 class (policy-map)
 class-map
 clear access-list ipv4
 clear access-list ipv6
 clear adjacency statistics
 clear ancp an-port
 clear ancp neighbor
 clear ancp summary statistics
 clear arp-cache
 clear bfd counters
 clear bgp
 clear bgp current-mode
 clear bgp dampening
 clear bgp external
 clear bgp flap-statistics

C

cablelength
 cache-sa holdtime
 cache-sa-state

[clear bgp nexthop performance-statistics](#)
[clear bgp nexthop registration](#)
[clear bgp peer-drops](#)
[clear bgp performance-statistics](#)
[clear bgp self-originated](#)
[clear bgp shutdown](#)
[clear bgp soft](#)
[clear canbus](#)
[clear cdp counters](#)
[clear cdp table](#)
[clear cef ipv4 drops](#)
[clear cef ipv4 exceptions](#)
[clear cef ipv4 interface bgp-policy-statistics](#)
[clear cef ipv4 interface rpf-statistics](#)
[clear cef ipv6 drops](#)
[clear cef ipv6 exceptions](#)
[clear cef ipv6 interface bgp-policy-statistics](#)
[clear comment](#)
[clear configuration commits](#)
[clear configuration inconsistency](#)
[clear configuration inconsistency replica](#)
[clear configuration sessions](#)
[clear context](#)
[clear controller backplane ethernet location statistics](#)
[clear controller lnm](#)
[clear controller t1](#)
[clear controller t3](#)
[clear controller wanphy](#)
[clear counters](#)
[clear counters sonet](#)
[clear counters wanphy](#)
[clear crypto ca certificates](#)
[clear crypto ca crt](#)
[clear crypto isakmp](#)
[clear crypto isakmp call admission statistics](#)
[clear crypto isakmp errors](#)
[clear crypto session](#)
[clear dhcp ipv4 snoop binding](#)
[clear dhcp ipv6 proxy binding](#)
[clear eigrp neighbors](#)
[clear eigrp topology](#)
[clear ethernet cfm ccm-learning-database location](#)
[clear ethernet cfm interface statistics](#)
[clear ethernet cfm local meps](#)
[clear ethernet cfm peer meps](#)
[clear ethernet cfm traceroute-cache](#)
[clear ethernet lmi interfaces](#)
[clear ethernet mvrp statistics](#)
[clear ethernet oam statistics](#)
[clear ethernet sla statistics all](#)
[clear ethernet sla statistics on-demand](#)
[clear ethernet sla statistics profile](#)
[clear ethernet udd statistics](#)
[clear frame-relay lmi interface](#)
[clear frame-relay multilink interface](#)
[clear frequency synchronization esmc statistics](#)
[clear frequency synchronization wait-to-restore](#)
[clear host](#)
[clear igmp counters](#)
[clear igmp group](#)
[clear igmp reset](#)
[clear igmp snooping bridge-domain](#)
[clear igmp snooping group](#)
[clear igmp snooping port](#)
[clear igmp snooping summary](#)
[clear install boot-options](#)
[clear install label](#)
[clear install log-history oldest](#)
[clear install rollback oldest](#)
[clear interface](#)
[clear iphc ipv4](#)
[clear ipv6 neighbors](#)
[clear isis process](#)
[clear isis route](#)
[clear isis statistics](#)
[clear l2vpn bridge-domain \(VPLS\)](#)
[clear l2vpn collaborators](#)
[clear l2vpn counters bridge mac-withdrawal](#)

clear l2vpn forwarding bridge-domain mroute
clear l2vpn forwarding counters
clear l2vpn forwarding mac-address-table
clear l2vpn forwarding message counters
clear l2vpn forwarding table
clear lacp counters
clear license
clear license log
clear line
clear line vty
clear lldp
clear logging
clear logging correlator delete
clear logging events delete
clear logging events reset
clear logging onboard
clear lpts ifib statistics
clear lpts pifib hardware statistics
clear lpts pifib statistics
clear mac-accounting (Ethernet)
clear mfib counter
clear mfib database
clear mfib hardware adjacency-counters
clear mfib hardware resource-counters
clear mfib hardware route statistics
clear monitor-session counters
clear mpls forwarding counters
clear mpls ldp forwarding
clear mpls ldp msg-counters neighbor
clear mpls ldp neighbor
clear mpls oam counters
clear mpls traffic-eng auto-bw (MPLS-TE EXEC)
clear mpls traffic-eng auto-tunnel backup unused
clear mpls traffic-eng auto-tunnel mesh
clear mpls traffic-eng counters auto-tunnel backup
clear mpls traffic-eng counters auto-tunnel mesh
clear mpls traffic-eng counters global
clear mpls traffic-eng counters signaling
clear mpls traffic-eng counters soft-preemption
clear mpls traffic-eng fast-reroute log
clear mpls traffic-eng link-management statistics
clear mpls traffic-eng pce
clear msdp peer
clear msdp sa-cache
clear msdp stats
clear nsr ncd client
clear nsr ncd queue
clear ospf process
clear ospf redistribution
clear ospf routes
clear ospf statistics
clear ospfv3 process
clear ospfv3 redistribution
clear ospfv3 routes
clear ospfv3 statistics
clear performance traffic clone profile
clear performance traffic statistics
clear pim counters
clear pim topology
clear plugin slot counts
clear ppp sso state
clear ppp statistics
clear prefix-list ipv4
clear prefix-list ipv6
clear qos counters (shared-policy-instance)
clear qos counters interface
clear raw statistics pcb
clear rip
clear rip database
clear rip interface
clear rip out-of-memory
clear rip statistics
clear route
clear rsvp authentication
clear rsvp counters all
clear rsvp counters authentication
clear rsvp counters chkpt
clear rsvp counters events

clear rsvp counters messages
clear rsvp counters oor
clear rsvp counters prefix-filtering
clear snmp counters
clear ssh
clear tcp nsr client
clear tcp nsr pcb
clear tcp nsr session-set
clear tcp nsr statistics client
clear tcp nsr statistics pcb
clear tcp nsr statistics session-set
clear tcp nsr statistics summary
clear tcp pcb
clear tcp statistics
clear udp statistics
clear vrrp statistics
cli interactive syntax check
cli whitespace completion
clock read-calendar
clock set
clock source (SONET)
clock source (T1/E1)
clock source (T3/E3)
clock summer-time
clock timezone
clock update-calendar
clock-interface
clock-interface sync
collect-bw-only (MPLS-TE)
commit
community is-empty
community matches-any
community matches-every
community-set
compress header ip
config-regis
configuration commit auto-save
configure
conform-action
connect-source
connection timeout
contact-email-addr
context-correlation
continuity-check archive hold-time
continuity-check interval
continuity-check loss auto-traceroute
contract-id
control disable
control-plane
controller (SONET)
controller MgmtMultilink
controller dwdm
controller e1
controller e3
controller t1
controller t3
controller wanphy
copy
copy access-list ethernet-service
copy access-list ipv4
copy access-list ipv6
copy prefix-list ipv4
copy prefix-list ipv6
cos (CFM)
cost
cost (OSPF)
cost (OSPFv3)
cost-fallback (OSPF)
crc (POS)
crc (serial)
crl optional (trustpoint)
crypto ca authenticate
crypto ca cancel-enroll
crypto ca enroll
crypto ca import
crypto ca trustpoint
crypto isakmp
crypto isakmp call admission limit

[crypto isakmp identity](#)
[crypto isakmp keepalive](#)
[crypto isakmp peer](#)
[crypto isakmp policy](#)
[crypto isakmp policy-set](#)
[crypto isakmp profile](#)
[crypto key generate dsa](#)
[crypto key generate rsa](#)
[crypto key import authentication rsa](#)
[crypto key zeroize dsa](#)
[crypto key zeroize rsa](#)
[crypto keyring](#)
[crypto logging](#)
[cryptographic-algorithm](#)
[csnp-interval](#)
[customer-id](#)

D

[dampening](#)
[dampening \(BFD\)](#)
[database-filter all out \(OSPF\)](#)
[database-filter all out \(OSPFv3\)](#)
[databits](#)
[datasize request](#)
[dead-interval \(OSPF\)](#)
[dead-interval \(OSPFv3\)](#)
[deadtime \(server-group configuration\)](#)
[debug ethernet cfm packets](#)
[debug ethernet cfm protocol-state](#)
[debug ethernet mvrp packets](#)
[debug ethernet mvrp protocol](#)
[debug spanning-tree mst packet](#)
[debug spanning-tree mst protocol-state](#)
[debug spanning-tree mstag packet](#)
[debug spanning-tree packet raw](#)
[debug spanning-tree pvrstag packet](#)
[debug spanning-tree pvstag packet](#)
[debug spanning-tree repag packet](#)
[default-cost \(OSPF\)](#)
[default-cost \(OSPFv3\)](#)
[default-information](#)
[default-information originate \(BGP\)](#)
[default-information originate \(IS-IS\)](#)
[default-information originate \(OSPF\)](#)
[default-information originate \(OSPFv3\)](#)
[default-information originate \(RIP\)](#)
[default-metric \(BGP\)](#)
[default-metric \(EIGRP\)](#)
[default-metric \(OSPF\)](#)
[default-metric \(OSPFv3\)](#)
[default-metric \(RIP\)](#)
[default-originate](#)
[default-peer](#)
[default-route](#)
[delay \(VRRP\)](#)
[delay clear](#)
[delay clear \(T1/E1\)](#)
[delay clear \(T3/E3\)](#)
[delay trigger](#)
[delay trigger \(T1/E1\)](#)
[delay trigger \(T3/E3\)](#)
[delete](#)
[delete community](#)
[delete extcommunity rt](#)
[demand-circuit \(OSPF\)](#)
[demand-circuit \(OSPFv3\)](#)
[deny \(ES ACL\)](#)
[deny \(IPv4\)](#)
[deny \(IPv6\)](#)
[deny \(prefix-list\)](#)
[description](#)
[description \(AAA\)](#)
[description \(BGP\)](#)
[description \(IKE policy\)](#)
[description \(IPHC profile\)](#)
[description \(ISAKMP peer\)](#)
[description \(ISAKMP policy-set\)](#)

description (T1/E1)
description (T3/E3)
description (interface)
description (keyring)
description (peer)
description (trustpoint)
destination (DHCP IPv6)
destination (MPLS-TE)
destination address
destination address (IP SLA)
destination in
destination interface
destination message-size-limit
destination port
destination preferred-msg-format
destination pseudowire
destination transport-method
device
dhcp ipv4
dhcp ipv4 none
dhcp ipv4 snoop profile (VPLS)
dhcp ipv6
diagnostic monitor
diagnostic monitor interval
diagnostic monitor syslog
diagnostic monitor threshold
diagnostic ondemand action-on-failure
diagnostic ondemand iterations
diagnostic schedule
diagnostic start
diagnostic stop
dir
disable (IS-IS)
disable (P2MP TE)
disable (explicit-path)
disable (multicast)
disable-dn-bit-check
disconnect
disconnect-character
discovery hello
discovery instance-tlv disable
discovery targeted-hello
discovery transport-address
distance (EIGRP)
distance (IS-IS)
distance (OSPF)
distance (RIP)
distance bgp
distance ospf
distance ospfv3
distribute-list
distribute-list prefix-list in
distribute-list prefix-list out
distributed speaker
distribution count
distribution interval
dmz-link-bandwidth
do
domain
domain ipv4 host
domain ipv6 host
domain list
domain lookup disable
domain name (global)
domain name-server
domain-id
domain-tag
done
dot1q tunneling ethertype
dot1q vlan
down-when-looped
down-when-looped (T1/E1)
down-when-looped (T3/E3)
downstream-on-demand
dr-priority
drop
ds-te bc-model
ds-te mode

ds-te te-classes
 dscp (BGP)
 dsu bandwidth
 dsu mode
 dsu remote
 dumpcore
 duplex (Management Ethernet)
 dynamic-arp-inspection

E

ebgp-multihop
 echo disable
 echo disable-vendor-extension
 echo ipv4 source
 echo latency detect
 echo revision
 echo startup validate
 edge-mode
 edit
 efd
 enable (multicast)
 encap (PVC)
 encap-sequence
 encapsulation (POS)
 encapsulation (serial)
 encapsulation default
 encapsulation dot1ad dot1q
 encapsulation dot1q
 encapsulation dot1q second-dot1q
 encapsulation frame-relay
 encapsulation ppp
 encapsulation untagged
 encryption
 encryption (IKE policy)
 end
 end-class-map
 end-global
 end-policy
 end-policy-map
 end-set
 end-template
 enrollment retry count
 enrollment retry period
 enrollment terminal
 enrollment url
 erase nvram-raw:
 erase nvram:
 escape-character
 ethernet cfm (global)
 ethernet cfm (interface)
 ethernet egress-filter
 ethernet filtering
 ethernet lmi
 ethernet oam
 ethernet oam loopback
 ethernet oam profile
 ethernet ring g8032
 ethernet ring g8032 prof
 ethernet sla
 ethernet sla on-demand operation type
 cfm-delay-measurement probe
 ethernet sla on-demand operation type cfm-loopback probe
 ethernet source bypass egress-filter
 ethernet udd reset interface
 ethernet uni id
 ethernet-service access-group
 ethernet-services access-list
 event manager directory user
 event manager environment
 event manager policy
 event manager refresh-time
 event manager run
 event manager scheduler suspend
 exceed-action
 exception filepath
 exception pakmem
 exception sparse

- exception sprsize
- exclude srlg (auto-tunnel backup)
- exclusion list
- exec-timeout
- exit
- exp
- explicit-null
- explicit-path
- explicit-tracking
- export route-policy
- export route-target
- extcommunity rt is-empty
- extcommunity rt matches-any
- extcommunity rt matches-every
- extcommunity soo is-empty
- extcommunity soo matches-any
- extcommunity soo matches-every
- extcommunity-set cost
- extcommunity-set rt
- extcommunity-set soo
- extension remote-uni disable
- external-cost (MSTAG/REPAG)
- external-cost (MSTP)

F

- fast-reroute
- fast-reroute per-link
- fast-reroute per-link (IS-IS)
- fast-reroute per-link exclude interface
- fast-reroute per-link priority-limit (IS-IS)
- fast-reroute per-prefix (IS-IS)
- fast-reroute per-prefix load-sharing disable (IS-IS)
- fast-reroute per-prefix tiebreaker (IS-IS)
- fast-reroute protect
- fast-reroute timers promotion
- fdl
- feedback disable
- file-size

- filter
- flood mode
- flood-reduction (OSPF)
- flood-reduction (OSPFv3)
- flooding disable
- flooding thresholds
- flooding unknown-unicast disable (VPLS)
- flow (LPTS)
- flow-control
- flowcontrol hardware
- flush containment disable
- follow
- force explicit-null
- format
- forward-delay
- forward-protocol udp
- forwarding-adjacency
- forwarding-latency
- fpd auto-upgrade
- fragment end-to-end
- frame threshold
- frame window
- frame-period threshold
- frame-period window
- frame-relay intf-type
- frame-relay lmi disable
- frame-relay lmi-n391dte
- frame-relay lmi-n392dce
- frame-relay lmi-n392dte
- frame-relay lmi-n393dce
- frame-relay lmi-n393dte
- frame-relay lmi-t391dte
- frame-relay lmi-t392dce
- frame-relay lmi-type
- frame-relay multilink ack
- frame-relay multilink bandwidth-class
- frame-relay multilink bid
- frame-relay multilink hello
- frame-relay multilink lid

[frame-relay multilink retry](#)
[frame-seconds threshold](#)
[frame-seconds window](#)
[framing \(E1\)](#)
[framing \(E3\)](#)
[framing \(SONET\)](#)
[framing \(T1\)](#)
[framing \(T3\)](#)
[frequency \(IP SLA\)](#)
[frequency \(logging\)](#)
[frequency synchronization](#)
[fsck](#)
[ftp client anonymous-password](#)
[ftp client passive](#)
[ftp client password](#)
[ftp client source-interface](#)
[ftp client username](#)

G

[g709 bdi-to-client-gais](#)
[g709 fec](#)
[g709 odu overhead tti](#)
[g709 odu report disable](#)
[g709 otu overhead tti](#)
[g709 otu report disable](#)
[g709 otu threshold](#)
[g709 tim-to-client-gais](#)
[g709 tti-processing](#)
[giaddr policy](#)
[global maximum](#)
[graceful-restart \(MPLS LDP\)](#)
[graceful-restart \(OSPFv3\)](#)
[group](#)
[group \(AAA\)](#)
[group \(IKE policy\)](#)
[group limit](#)
[group policy](#)
[guard root](#)

[guard topology-change](#)

H

[hash \(IKE policy\)](#)
[hello-interv](#)
[hello-interval \(EIGRP\)](#)
[hello-interval \(IS-IS\)](#)
[hello-interval \(OSPF\)](#)
[hello-interval \(OSPFv3\)](#)
[hello-interval \(PIM\)](#)
[hello-multiplier](#)
[hello-padding](#)
[hello-password](#)
[hello-password accept](#)
[hello-password keychain](#)
[hello-time \(Access Gateway\)](#)
[hello-time \(MSTP\)](#)
[helper-address](#)
[helper-address \(ipv6\)](#)
[history](#)
[hold-time \(EIGRP\)](#)
[holdtime \(MPLS LDP\)](#)
[hostname](#)
[hostname dynamic disable](#)
[hsrp authentication](#)
[hsrp bfd fast-detect](#)
[hsrp bfd minimum-interval](#)
[hsrp bfd multiplier](#)
[hsrp delay](#)
[hsrp ipv4](#)
[hsrp mac-address](#)
[hsrp preempt](#)
[hsrp priority](#)
[hsrp redirects](#)
[hsrp timers](#)
[hsrp track](#)
[hsrp use-bia](#)
[http server](#)

[hw-module load-balance bundle l2-service l3-params](#)
[hw-module location reload](#)
[hw-module logging onboard](#)
[hw-module power disable](#)
[hw-module power location](#)
[hw-module profile feature](#)
[hw-module profile scale](#)
[hw-module reset auto](#)
[hw-module subslot reload](#)
[hw-module subslot shutdown](#)

[icmp ipv4 rate-limit unreachable](#)
[if](#)
[igmp snooping profile](#)
[ignore lsa mospf](#)
[ignore-connected-check](#)
[ignore-lsp-errors](#)
[igp auto-config disable](#)
[igp sync delay](#)
[immediate-leave](#)
[import route-policy](#)
[import route-target](#)
[inband](#)
[inclusion-list](#)
[index exclude-address](#)
[index exclude-srlg](#)
[index next-address](#)
[index persistence](#)
[inherit taskgroup](#)
[inherit usergroup](#)
[install abort](#)
[install activate](#)
[install add](#)
[install attach](#)
[install auto-abort-timer stop](#)
[install boot-options](#)
[install commit](#)

[install deactivate](#)
[install label](#)
[install remove](#)
[install rollback to](#)
[install verify healthcheck](#)
[instance \(G.8032\)](#)
[instance \(MSTAG/REPAG\)](#)
[instance \(MSTP\)](#)
[instance \(OSPFv3\)](#)
[instance cost](#)
[instance port-priority](#)
[interface \(BFD\)](#)
[interface \(DHCP\)](#)
[interface \(EIGRP\)](#)
[interface \(Ethernet\)](#)
[interface \(HSRP\)](#)
[interface \(IS-IS\)](#)
[interface \(MPLS LDP\)](#)
[interface \(MPLS-TE\)](#)
[interface \(MPP\)](#)
[interface \(MSTAG/REPAG\)](#)
[interface \(MSTP\)](#)
[interface \(NTP\)](#)
[interface \(OSPF\)](#)
[interface \(OSPFv3\)](#)
[interface \(PIM\)](#)
[interface \(PVSTAG/PVRSTAG\)](#)
[interface \(RIP\)](#)
[interface \(SRLG\)](#)
[interface \(VLAN\)](#)
[interface \(VPLS\)](#)
[interface \(VRRP\)](#)
[interface \(bundle\)](#)
[interface \(global\)](#)
[interface \(multicast\)](#)
[interface \(p2p\)](#)
[interface MgmtEth](#)
[interface all enable](#)
[interface bvi](#)

interface multilink
 interface pos
 interface serial
 interface tunnel-mte
 interface tunnel-te
 interface-inheritance disable
 internal-querier
 internal-querier max-response-time
 internal-querier query-interval
 internal-querier robustness-variable
 internal-querier tcn query count
 internal-querier tcn query interval
 internal-querier timer expiry
 internal-querier version
 interval
 interworking ipv4
 invert
 ip-address (trustpoint)
 ip-source-guard
 iphc profile
 ipsla
 ipv4 access-group
 ipv4 access-list
 ipv4 access-list 1
 ipv4 access-list log-update threshold
 ipv4 address (network)
 ipv4 assembler max-packets
 ipv4 assembler timeout
 ipv4 bgp policy accounting
 ipv4 bgp policy propagation
 ipv4 conflict-policy
 ipv4 directed-broadcast
 ipv4 disable
 ipv4 helper-address
 ipv4 iphc profile
 ipv4 mask-reply
 ipv4 mtu
 ipv4 prefix-list
 ipv4 redirects
 ipv4 source-route
 ipv4 unnumbered (MPLS)
 ipv4 unnumbered (point-to-point)
 ipv4 unreachable disable
 ipv4 verify unicast source reachable-via
 ipv4 virtual address
 ipv6 access-group
 ipv6 access-list
 ipv6 access-list log-update rate
 ipv6 access-list log-update threshold
 ipv6 access-list maximum ace threshold
 ipv6 access-list maximum acl threshold
 ipv6 address
 ipv6 address link-local
 ipv6 checksum
 ipv6 conflict-policy
 ipv6 enable
 ipv6 enable (XML)
 ipv6 hop-limit
 ipv6 icmp error-interval
 ipv6 mtu
 ipv6 nd dad attempts
 ipv6 nd managed-config-flag
 ipv6 nd ns-interval
 ipv6 nd other-config-flag
 ipv6 nd prefix
 ipv6 nd ra-interval
 ipv6 nd ra-lifetime
 ipv6 nd reachable-time
 ipv6 nd redirects
 ipv6 nd scavenge-timeout
 ipv6 nd suppress-ra
 ipv6 neighbor
 ipv6 prefix-list
 ipv6 unreachable disable
 ipv6 verify unicast source reachable-via
 is-type
 isolation recovery-delay
 ispf

iteration

J

join-group

join-prune-interval

join-time

K

keepalive (ISAKMP profile)

keepalive (POS)

keepalive (serial)

key (RADIUS)

key (TACACS+)

key (key chain)

key chain (key chain)

key-chain

key-source key-chain (RSVP)

key-string (IKE)

key-string (keychain)

keychain

keychain inheritance-disable

keychain-disable

keyring

L

l2protocol (Ethernet)

l2transport

l2transport (Ethernet)

l2transport l2protocol

l2transport propagate

l2transport service-policy

l2vpn

l2vpn resynchronize forwarding mac-address-table

location

l2vpn switchover

label accept

label advertise

label allocate

label-allocation-mode

lACP cisco enable

lACP fast-switchover

lACP packet-capture

lACP period short

lACP system priority

last-member-query count

last-member-query interval

lawful-intercept disable

learning disable (VPLS)

leave-time

leaveall-time

length

level

license

license add

license backup

license move

license move slot

license remove

license restore

license save credential

life

life-time (RSVP)

lifetime (IKE policy)

limit (VPLS)

line

line delay clear

line delay trigger

linecode

link-management timers bandwidth-hold

link-management timers periodic-flooding

link-management timers preemption-delay

link-monitor

link-ty

lives

lldp

lldp (interface)
lldp holdtime
lldp reinit
lldp timer
lldp tlv-select disable
lnm major-warning
lnm minor-warning
lnm remove
lnm syslog
load
load commit changes
load configuration failed
load configuration removed
load rollback changes
load-balancing flow
load-balancing pw-label
load-interval
load-share
load-share unequal
local pool
local-address (keyring)
local-as
local-preference
local-traffic default encapsulation
locale country
locale language
lockout
log adjacency changes (IS-IS)
log adjacency changes (OSPF)
log adjacency changes (OSPFv3)
log ais
log continuity-check errors
log continuity-check mep changes
log crosscheck errors
log disable
log efd
log graceful-restart
log neighbor
log nsr
log pdu drops
log selection
log session-protection
log signal
log-neighbor-changes
log-neighbor-warnings
log-traps
logging
logging (l2vpn)
logging archive
logging buffered
logging console
logging correlator apply rule
logging correlator apply ruleset
logging correlator buffer-size
logging correlator rule
logging correlator ruleset
logging disable
logging events buffer-size
logging events display-location
logging events level
logging events link-status
logging events link-status (interface)
logging events threshold
logging facility
logging history
logging history size
logging hostnameprefix
logging localfilesize
logging monitor
logging source-interface
logging suppress apply rule
logging suppress deprecated
logging suppress duplicates
logging suppress rule
logging trap
login authentication
loopback (DWDM)
loopback (Ethernet)

[loopback \(SONET\)](#)
[loopback \(T1/E1\)](#)
[loopback \(T3/E3\)](#)
[loopback stub-network](#)
[low-memory](#)
[lpts pifib hardware police](#)
[lsp fast-flood threshold](#)
[lsp selector ipv4](#)
[lsp-gen-interval](#)
[lsp-interval](#)
[lsp-mtu](#)
[lsp-password](#)
[lsp-password accept](#)
[lsp-refresh-interval](#)
[lsr-path](#)

M

[mac \(VPLS\)](#)
[mac secure](#)
[mac-accounting](#)
[mac-address \(Ethernet\)](#)
[mac-address \(Management Ethernet\)](#)
[mail-server](#)
[man](#)
[management-plane](#)
[master](#)
[match access-group](#)
[match cos](#)
[match dei](#)
[match destination-address](#)
[match discard-class](#)
[match dscp](#)
[match fr-de](#)
[match frame-relay dlci](#)
[match identity \(ISAKMP policy-set\)](#)
[match identity \(ISAKMP profile\)](#)
[match mpls experimental topmost](#)
[match precedence](#)

[match protocol](#)
[match qos-group](#)
[match source-address](#)
[match vlan](#)
[max age](#)
[max-associations](#)
[max-header](#)
[max-lsa](#)
[max-lsp-lifetime](#)
[max-metric](#)
[maxabs \(MPLS-TE\)](#)
[maximum \(VPLS\)](#)
[maximum age](#)
[maximum disable](#)
[maximum external-sa](#)
[maximum groups](#)
[maximum groups-per-interface](#)
[maximum hops](#)
[maximum hops \(MSTP\)](#)
[maximum interfaces \(MPLS LDP\)](#)
[maximum interfaces \(OSPF\)](#)
[maximum interfaces \(OSPFv3\)](#)
[maximum path \(static\)](#)
[maximum paths \(IP SLA\)](#)
[maximum paths \(OSPF\)](#)
[maximum paths \(OSPFv3\)](#)
[maximum peer-external-sa](#)
[maximum prefix \(RIB\)](#)
[maximum redistributed-prefixes \(OSPF\)](#)
[maximum redistributed-prefixes \(OSPFv3\)](#)
[maximum register-states](#)
[maximum route-interfaces](#)
[maximum routes](#)
[maximum-meps](#)
[maximum-paths \(BGP\)](#)
[maximum-paths \(EIGRP\)](#)
[maximum-paths \(IS-IS\)](#)
[maximum-paths \(RIP\)](#)
[maximum-prefix \(BGP\)](#)

maximum-prefix (EIGRP)
maximum-redistributed-prefixes (IS-IS)
mdl
mdt data
mdt default
mdt mtu
mdt source
med
member neighbor
mep crosscheck
mep domain
mep-id
mesh-group (IS-IS)
mesh-group (peer)
message state disable
message-digest-key
metric (IS-IS)
metric maximum-hops
metric weights
metric-style narrow
metric-style transition
metric-style wide
metric-zero-accept
mhost default-interface
mib-retrieval
min-lsp-arrivaltime
minimum-version
mip auto-create
mirror
mirror first
mirror pause
mirror resume
mirror verify
mkdir
mlacp connect
mlacp iccp-group
mlacp node
mlacp port-priority
mlacp system mac
mlacp system priority
mode
mode (Ethernet OAM)
mode (SONET)
mofrr
monitor
monitor controller fabric
monitor controller sonet
monitor interface
monitor interface (port0)
monitor interface (port1)
monitor processes
monitor threads
monitor-session
monitor-session (interface)
monitor-session (l2vpn)
monitoring
more
mpls activate (BGP)
mpls discovery vpn
mpls ip-ttl-propagate
mpls label range
mpls ldp
mpls ldp auto-config
mpls ldp auto-config (OSPF)
mpls ldp sync (IS-IS)
mpls ldp sync (OSPF)
mpls oam
mpls static label (L2VPN)
mpls static label (VPLS)
mpls traffic-eng
mpls traffic-eng (IS-IS)
mpls traffic-eng (OSPF)
mpls traffic-eng auto-bw apply (MPLS-TE)
mpls traffic-eng fast-reroute promote
mpls traffic-eng igp-intact (OSPF)
mpls traffic-eng level
mpls traffic-eng link-management flood
mpls traffic-eng multicast-intact (IS-IS)

[mpls traffic-eng multicast-intact \(OSPF\)](#)
[mpls traffic-eng path-protection switchover tunnel-te](#)
[mpls traffic-eng path-selection ignore overload](#)
[mpls traffic-eng pce activate-pcep](#)
[mpls traffic-eng pce reoptimize](#)
[mpls traffic-eng reoptimize \(EXEC\)](#)
[mpls traffic-eng repotimize mesh group](#)
[mpls traffic-eng router-id \(IS-IS\)](#)
[mpls traffic-eng router-id \(MPLS-TE router\)](#)
[mpls traffic-eng router-id \(OSPF\)](#)
[mrinfo](#)
[mrouter](#)
[mtrace](#)
[mtu](#)
[mtu \(VPLS\)](#)
[mtu-ignore \(OSPF\)](#)
[mtu-ignore \(OSPFv3\)](#)
[multi-area-interface](#)
[multi-router aps](#)
[multicast client](#)
[multicast destination](#)
[multicast-routing](#)
[multihop ttl-drop-threshold](#)
[multilink](#)
[multilink fragment](#)
[multilink group](#)
[multipath](#)
[mvrp static](#)

N

[name \(MSTAG/REPAG\)](#)
[name \(MSTP\)](#)
[national bits \(E1\)](#)
[national bits \(E3\)](#)
[negotiation auto](#)
[neighbor \(BGP\)](#)
[neighbor \(EIGRP\)](#)
[neighbor \(L2VPN\)](#)
[neighbor \(OSPF\)](#)
[neighbor \(OSPFv3\)](#)
[neighbor \(RIP\)](#)
[neighbor \(VPLS\)](#)
[neighbor database-filter all out](#)
[neighbor maximum-prefix](#)
[neighbor password](#)
[neighbor password disable](#)
[neighbor targeted](#)
[neighbor-check-on-recv enable](#)
[neighbor-check-on-send enable](#)
[neighbor-filter](#)
[neighbor-group](#)
[net](#)
[network \(BGP\)](#)
[network \(OSPF\)](#)
[network \(OSPFv3\)](#)
[network backdoor](#)
[network connection id](#)
[network port id](#)
[next-hop in](#)
[next-hop-self](#)
[next-hop-self disable](#)
[next-hop-unchanged](#)
[nexthop route-policy](#)
[nexthop trigger-delay](#)
[nhop-only \(auto-tunnel backup\)](#)
[non-tcp compression](#)
[non-tcp context absolute](#)
[nonrootcause](#)
[notification \(VPLS\)](#)
[notification linkupdown](#)
[nsf \(IS-IS\)](#)
[nsf \(OSPF\)](#)
[nsf \(RIP\)](#)
[nsf \(multicast\)](#)
[nsf disable \(EIGRP\)](#)
[nsf flush-delay-time \(OSPF\)](#)
[nsf interface-expires](#)

nsf interface-timer
 nsf interval (OSPF)
 nsf lifetime (IS-IS)
 nsf lifetime (OSPF)
 nsf lifetime (PIM)
 nsr (BGP)
 nsr (MPLS-LDP)
 nsr (OSPF)
 nsr process-failures switchover
 nssa (OSPF)
 nssa (OSPFv3)
 ntp
 ntp clear
 ntp reset drift

O

old-register-checksum
 oom-handling
 open ring
 operation
 orf
 orf prefix in
 origin is
 originator-id
 ospf name-lookup
 ospfv3 name-lookup
 out-of-band
 output
 output nexthop
 output-delay
 overflow threshold (MPLS-TE)
 overhead (SONET path)
 overhead (SONET)

P

p2p
 packet count
 packet interval
 packet size
 packet-gap non-standard
 packet-size (OSPF)
 packet-size (OSPFv3)
 parity
 pass
 passive (IS-IS)
 passive (OSPF)
 passive (OSPFv3)
 passive-interface (EIGRP)
 passive-interface (RIP)
 password (AAA)
 password (BGP)
 password (peer)
 password-disable
 path (SONET)
 path delay clear
 path delay trigger
 path discover
 path discover echo
 path discover path
 path discover scan
 path discover session
 path-option (MPLS-TE)
 path-option (P2MP TE)
 path-protection (MPLS-TE)
 path-protection timers reopt-after-switchover
 path-selection ignore overload (MPLS-TE)
 path-selection loose-expansion affinity (MPLS-TE)
 path-selection loose-expansion metric (MPLS-TE)
 path-selection metric (MPLS-TE)
 path-selection metric (interface)
 path-type is
 pbb
 pce address (MPLS-TE)
 pce deadtimer (MPLS-TE)
 pce keepalive (MPLS-TE)

pce peer (MPLS-TE)
pce reoptimize (MPLS-TE)
pce request-timeout (MPLS-TE)
pce tolerance keepalive (MPLS-TE)
peer (DAGR)
peer (MSDP)
peer (NTP)
peer ipv4 address
performance-mgmt apply monitor
performance-mgmt apply statistics
performance-mgmt apply thresholds
performance-mgmt regular-expression
performance-mgmt resources dump local
performance-mgmt resources memory
performance-mgmt resources tftp-server
performance-mgmt statistics
performance-mgmt thresholds
periodic transmit
permit (ES ACL)
permit (IPv4)
permit (IPv6)
permit (prefix-list)
phone-number
ping (network)
ping ethernet cfm
ping mpls ipv4
ping mpls traffic-eng
ping mpls traffic-eng tunnel-te (P2P)
ping pseudowire (AToM)
ping pseudowire multisegment
pm fec report enable
pm fec threshold
pm optics report enable
pm optics threshold
pm otn re
pm otn threshold
point-to-point
poison-reverse
police rate
policy (ISAKMP policy-set)
policy-global
policy-map
polling-verification-timer
port-down flush disable (VPLS)
port-id
port-priority
port0 interface
port1
portfast
pos
power budget enforcement disable
power budget reservation
ppp authentication
ppp chap password
ppp chap refuse
ppp ipcp dns
ppp ipcp neighbor-route disable
ppp ipcp peer-address default
ppp max-bad-auth
ppp max-configure
ppp max-failure
ppp max-terminate
ppp ms-chap hostname
ppp ms-chap password
ppp ms-chap refuse
ppp multilink multiclass
ppp multilink multiclass local
ppp multilink multiclass remote apply
ppp pap refuse
ppp pap sent-username password
ppp timeout authentication
ppp timeout retry
pre
pre-shared-key
precedence
preempt delay
prefix-set
prepend as-path

priority (Access Gateway)
priority (IS-IS)
priority (MPLS-TE)
priority (MSTP)
priority (OSPF)
priority (OSPFv3)
priority (QoS)
priority (SLA)
priority (frequency synchronization)
priority-timeout
proactive
proactive revert threshold
proactive revert window
proactive trigger threshold
proactive trigger window
probe
process
process core
process mandatory
profile
profile (EOAM)
profile (SLA)
profile (VRRP)
profile (call home)
propagate level
protocol
protocol shutdown
provider-bridge (MSTAG/REPAG)
provider-bridge (MSTP)
proxy-arp
pvc (frame relay)
pw-class
pw-class (L2VPN)
pw-class encapsulation mpls
pw-status (L2VPN)
pwd
pwd (config)

Q

quality itu-t
quality receive
quality transmit
querier query-interval
querier robustness-variable
query url
query-interval
query-max-response-time
query-timeout
queue dispatch flush-lsa
queue dispatch incoming
queue dispatch rate-limited-lsa
queue dispatch spf-lsa-limit
queue limit
queue-limit

R

radius source-interface
radius-server dead-criteria time
radius-server dead-criteria tries
radius-server deadtime
radius-server host
radius-server key
radius-server retransmit
radius-server timeout
random-det
random-detect
random-detect cos
random-detect discard-class
random-detect dscp
random-detect precedence
range (OSPF)
range (OSPFv3)
rate-limit
rate-per-route
rcc

rcp client source-interface
 rcp client username
 rd
 rd in
 rd-set
 react
 react lpd
 reaction monitor
 reaction operation
 reaction trigger
 receive version
 receive-buffer-size
 record-route
 recurring
 recursion-depth-max
 redistribute (BGP)
 redistribute (EIGRP)
 redistribute (IS-IS)
 redistribute (OSPF)
 redistribute (OSPFv3)
 redistribute (RIP)
 redistribute maximum-prefix
 redundancy
 redundancy iccp group
 redundancy iccp-group report-standby-state disable
 redundancy one-way
 redundancy switchover
 refresh max-period
 refresh max-time
 refresh rtp
 reissue-nonbistate
 relay information check
 relay information option
 relay information option allow-untrusted
 relay information policy
 reload
 reload (administration EXEC)
 remark (IPv4)
 remark (IPv6)
 remark (prefix-list)
 remote-as (BGP)
 remote-as (multicast)
 remote-loopback
 remove-private-as
 reoptimize timers delay (MPLS-TE)
 reparent
 replace as-path
 reply dscp
 reply mode
 report (SONET path)
 report (SONET)
 report-suppression disable
 require-remote
 resequence access-list ethernet-service
 resequence access-list ipv4
 resequence access-list ipv6
 resequence prefix-list ipv4
 resequence prefix-list ipv6
 responder
 resume
 retain local-label
 retain route-target
 retransmit (RADIUS)
 retransmit-interval (IS-IS)
 retransmit-interval (OSPF)
 retransmit-interval (OSPFv3)
 retransmit-throttle-interval
 revert
 revision (MSTAG/REPAG)
 revision (MSTP)
 rewrite ingress tag
 rewrite ingress tag push
 rib-has-route
 rmdir
 robustness-count
 rollback configuration
 root
 root-cost

root-id
 root-priority
 rootcause
 route (static)
 route distance
 route metric
 route-has-label
 route-policy (BGP)
 route-policy (EIGRP)
 route-policy (OSPF)
 route-policy (RIP)
 route-policy (RPL)
 route-reflector-client
 route-target
 route-type is
 routed interface bvi
 router
 router bgp
 router eigrp
 router hsrp
 router igmp
 router isis
 router ospf
 router ospfv3
 router pim
 router rib
 router rip
 router static
 router vrrp
 router-alert-check disable
 router-guard
 router-id (EIGRP)
 router-id (MPLS LDP)
 router-id (OSPF)
 router-id (OSPFv3)
 router-id secondary (MPLS-TE)
 rp mgmtethernet forwarding
 rp-address
 rp-static-deny

rpf topology route-policy
 rpf-vector
 rpl
 rpl editor
 rpl maximum
 rsa-pubkey
 rsakeypair
 rsvp interface
 rsvp neighbor
 rtp
 rump always-replicate

S

sa-filter
 sam add certificate
 sam delete certificate
 sam prompt-interval
 sam verify
 samples
 sap cache-timeout
 sap listen
 save configuration
 save configuration changes
 save configuration commit changes
 save configuration failed
 save configuration merge
 save configuration removed
 save rollback changes
 scan delete-factor
 scan interval
 schedule (SLA)
 schedule monitor
 schedule operation
 schedule period
 scramble
 scrambling disable (SONET path)
 secret
 security ttl

security ttl (OSPF)
selection input
self-identity
send
send (SLA)
send version
send-buffer-size
send-community-ebgp
send-extended-community-ebgp
send-lifetime
sender
sequencing (L2VPN)
serial
serial-number (trustpoint)
server (NTP)
server (RADIUS)
server (TACACS+)
server-private (RADIUS)
server-private (TACACS+)
service
service active
service tcp-small-servers
service timestamps
service udp-small-servers
service-policy (interface)
service-policy (policy map class)
session protection
session timeout
session-group
session-limit
session-open-mode
session-timeout
set aigp-metric
set community
set core-tree
set cos
set dampening
set default-afi
set default-safi
set default-vrf
set dei
set discard-class
set dscp
set eigrp-metric
set extcommunity cost
set extcommunity rt
set fr-de
set interface tunnel-ipsec
set ip-precedence
set ipsec-profile
set isis-metric
set label
set level
set local-preference
set med
set metric-type (IS-IS)
set metric-type (OSPF)
set mpls experimental
set next-hop
set origin
set ospf-metric
set path-selection
set precedence
set qos-group
set qos-group (RPL)
set rib-metric
set rip-metric
set rip-tag
set rpf-topology
set spf-pr
set tag
set traffic-index
set vpn-distinguisher
set weight
set-attached-bit
set-overload-bit
severity
sftp

sftp (Interactive Mode)
sftp-password (trustpoint)
sftp-username (trustpoint)
sham-link
shape average
show
show aaa
show access-list ethernet-service usage pfilter
show access-lists afi-all
show access-lists ethernet-services
show access-lists ethernet-services trace
show access-lists ipv4
show access-lists ipv6
show adjacency
show aliases
show ancp an-port
show ancp an-port circuit-id
show ancp an-port interface
show ancp an-port neighbor
show ancp an-port state
show ancp neighbor
show ancp neighbor summary
show ancp redundancy iccp
show ancp redundancy iccp group
show ancp summary
show aps
show aps agents
show aps group
show arm conflicts
show arm database
show arm registrations producers
show arm router-ids
show arm summary
show arm vrf-summary
show arp
show arp dagr
show arp traffic
show auto-rp candidate-rp
show bcdl
show bcdl consumers
show bcdl queues
show bcdl tables
show bcdl trace
show bfd
show bfd client
show bfd counters
show bfd mib session
show bfd multipath
show bfd session
show bfd summary
show bgp
show bgp advertised
show bgp af-group
show bgp attribute-key
show bgp cidr-only
show bgp community
show bgp convergence
show bgp dampened-paths
show bgp flap-statistics
show bgp inconsistent-as
show bgp l2vpn rd
show bgp l2vpn vpls
show bgp labels
show bgp neighbor-group
show bgp neighbors
show bgp neighbors nsr
show bgp nexthops
show bgp nsr
show bgp paths
show bgp policy
show bgp process
show bgp regexp
show bgp route-policy
show bgp session-group
show bgp sessions
show bgp summary
show bgp summary nsr
show bgp truncated-communities

show bgp update-group
show bgp vrf imported-routes
show bundle
show bundle brief
show bundle load-balancing
show bundle replication bundle-ether
show calendar
show call-home
show call-home alert-group
show call-home mail-server status
show call-home profile
show call-home statistics
show call-home trace
show canbus
show cdp
show cdp entry
show cdp interface
show cdp neighbors
show cdp traffic
show cef
show cef bgp-attribute
show cef external
show cef ipv4
show cef ipv4 adjacency
show cef ipv4 adjacency hardware
show cef ipv4 drops
show cef ipv4 exact-route
show cef ipv4 exceptions
show cef ipv4 hardware
show cef ipv4 interface
show cef ipv4 interface bgp-policy-statistics
show cef ipv4 non-recursive
show cef ipv4 resource
show cef ipv4 summary
show cef ipv4 unresolved
show cef ipv6
show cef ipv6 adjacency
show cef ipv6 adjacency hardware
show cef ipv6 drops
show cef ipv6 exact-route
show cef ipv6 exceptions
show cef ipv6 hardware
show cef ipv6 interface
show cef ipv6 non-recursive
show cef ipv6 resource
show cef ipv6 summary
show cef ipv6 unresolved
show cef mpls adjacency
show cef mpls adjacency hardware
show cef mpls interface
show cef mpls unresolved
show cef recursive-nexthop
show cef summary
show cef vrf
show cinetd services
show clns stat
show clock
show configuration (config)
show configuration changes
show configuration commit changes
show configuration commit list
show configuration failed (config)
show configuration failed incompatible
show configuration failed remove
show configuration failed rollback
show configuration failed startup
show configuration history
show configuration inconsistency replica
show configuration persistent
show configuration removed
show configuration rollback changes
show configuration running
show configuration running-config
show configuration sessions
show context
show controller dwdm
show controller dwdm pm
show controllers (Ethernet)

show controllers backplane ethernet local brief
show controllers backplane ethernet local clients
show controllers backplane ethernet local detail
show controllers backplane ethernet local multicast groups
show controllers backplane ethernet location brief
show controllers backplane ethernet location clients
show controllers backplane ethernet location detail
show controllers backplane ethernet location multicast groups
show controllers e1
show controllers e3
show controllers lnm
show controllers mgmtmultilink
show controllers pos
show controllers sonet
show controllers switch ports
show controllers switch stats
show controllers t1
show controllers t3
show controllers wanphy
show crypto ca certificates
show crypto ca crls
show crypto isakmp call admission statistics
show crypto isakmp errors
show crypto isakmp key
show crypto isakmp peers
show crypto isakmp policy
show crypto isakmp profile
show crypto isakmp sa
show crypto isakmp stats
show crypto key mypubkey dsa
show crypto key mypubkey rsa
show crypto key pubkey-chain rsa
show crypto session
show default-afi-safi-vrf
show dhcp ipv4 relay profile
show dhcp ipv4 relay profile name
show dhcp ipv4 relay statistics
show dhcp ipv4 snoop binding
show dhcp ipv4 snoop statistics
show dhcp ipv6 interface
show dhcp ipv6 proxy binding
show diag
show diagnostic bootup level
show diagnostic content
show diagnostic ondemand settings
show diagnostic result
show diagnostic schedule
show diagnostic status
show dll
show dsc
show efd interface
show eigrp accounting
show eigrp interfaces
show eigrp neighbors
show eigrp topology
show eigrp traffic
show environment
show epm trace boot
show ethernet cfm ccm-learning-database
show ethernet cfm configuration-errors
show ethernet cfm interfaces ais
show ethernet cfm interfaces statistics
show ethernet cfm local maintenance-points
show ethernet cfm local meps
show ethernet cfm peer meps
show ethernet cfm traceroute-cache
show ethernet lmi interfaces
show ethernet mvrp mad
show ethernet mvrp statistics
show ethernet mvrp status
show ethernet oam configuration
show ethernet oam discovery
show ethernet oam interfaces
show ethernet oam statistics
show ethernet ring g8032
show ethernet sla configuration-errors
show ethernet sla operations

show ethernet sla statistics
show ethernet uddl interfaces
show ethernet uddl statistics
show event manager directory user
show event manager environment
show event manager metric hardware
show event manager metric process
show event manager policy available
show event manager policy registered
show event manager refresh-time
show event manager statistics-table
show exception
show explicit-paths
show filesystem
show fpd package
show frame-relay lmi
show frame-relay lmi-info
show frame-relay multilink
show frame-relay pvc
show frame-relay vcm-info interface
show frequency sy
show frequency synchronization clock-interfaces
show frequency synchronization interfaces
show frequency synchronization selection
show history
show hosts
show hsrp
show hw-module fpd
show hw-module profile
show hw-module subslot brief
show hw-module subslot config
show hw-module subslot counters
show hw-module subslot errors
show hw-module subslot plim-subblock
show hw-module subslot registers
show hw-module subslot status
show iccp group
show igmp groups
show igmp interface
show igmp nsf
show igmp snooping bridge-domain
show igmp snooping group
show igmp snooping port
show igmp snooping profile
show igmp snooping redundancy
show igmp snooping summary
show igmp snooping trace
show igmp ssm map
show igmp summary
show igmp traffic
show im dampening
show install
show install active
show install audit
show install auto-abort-timer
show install boot-options
show install committed
show install inactive
show install log
show install package
show install pie-info
show install request
show install rollback
show install which
show interfaces
show interfaces (frame relay)
show interfaces bvi
show interfaces multilink
show interfaces pos
show inventory
show ip
show iphc idb
show iphc ipv4 rtp
show iphc ipv4 tcp
show iphc profile
show iphc trace all
show ipsla application
show ipsla history

show ipsla mpls discovery vpn
show ipsla mpls lsp-monitor lpd
show ipsla mpls lsp-monitor scan-queue
show ipsla mpls lsp-monitor summary
show ipsla responder statistics ports
show ipsla statistics
show ipsla statistics aggregated
show ipsla statistics enhanced aggregated
show ipv4 interface
show ipv4 traffic
show ipv6 interface
show ipv6 neighbors
show ipv6 neighbors summary
show ipv6 traffic
show isis
show isis adjacency
show isis adjacency-log
show isis checkpoint adjacency
show isis checkpoint interface
show isis checkpoint lsp
show isis database
show isis database-log
show isis fast-reroute
show isis hostname
show isis interface
show isis lsp-log
show isis mesh-group
show isis mpls traffic-eng adjacency-log
show isis mpls traffic-eng advertisements
show isis mpls traffic-eng tunnel
show isis neighbors
show isis protocol
show isis route
show isis spf-log
show isis statistics
show isis topology
show key chain
show l2vpn bridge-domain (VPLS)
show l2vpn bridge-domain pbb
show l2vpn collaborators
show l2vpn discovery
show l2vpn ethernet ring g8032
show l2vpn forwarding
show l2vpn forwarding bridge pbb
show l2vpn forwarding bridge-domain (VPLS)
show l2vpn forwarding bridge-domain mac-address (VPLS)
show l2vpn forwarding bridge-domain mroute
show l2vpn forwarding ethernet ring g8032
show l2vpn forwarding pbb backbone-source-mac
show l2vpn forwarding protection main-interface
show l2vpn mstp port
show l2vpn mstp vlan
show l2vpn pbb backbone-source-mac
show l2vpn protection main-interface
show l2vpn pw-class
show l2vpn resource
show l2vpn xconnect
show lacp bundle
show lacp counters
show lacp io
show lacp packet-capture
show lacp port
show lacp system-id
show led
show license
show license active
show license allocated
show license available
show license backup
show license chassis
show license evaluation
show license expired
show license features
show license file
show license log
show license pools
show license status

show license udi
show line
show lldp
show lldp entry
show lldp errors
show lldp interface
show lldp neighbors
show lldp traffic
show local pool
show logging
show logging correlator buffer
show logging correlator info
show logging correlator rule
show logging correlator ruleset
show logging events buffer
show logging events info
show logging history
show logging onboard
show logging suppress rule
show lpts bindings
show lpts clients
show lpts flows
show lpts ifib
show lpts ifib slices
show lpts ifib statistics
show lpts ifib times
show lpts mpa groups
show lpts pifib
show lpts pifib hardware context
show lpts pifib hardware entry
show lpts pifib hardware police
show lpts pifib hardware usage
show lpts pifib statistics
show lpts port-arbitrator statistics
show lpts vrf
show mac-accounting (Ethernet)
show media
show memory
show memory compare
show memory heap
show mfib connections
show mfib counter
show mfib encap-info
show mfib hardware interface
show mfib hardware ltrace
show mfib hardware resource-counters
show mfib hardware route accept-bitmap
show mfib hardware route internal
show mfib hardware route mofrr
show mfib hardware route olist
show mfib hardware route statistics
show mfib hardware route summary
show mfib hardware table
show mfib interface
show mfib nsf
show mfib route
show mfib table-info
show mgmt-plane
show mhost default-interface
show mhost groups
show mirror
show mlacp
show mlacp counters
show monitor-session counters
show monitor-session status
show mpa client
show mpa groups
show mpa ipv4
show mpa ipv6
show mpls forwarding
show mpls forwarding exact-route
show mpls interfaces
show mpls label range
show mpls label table
show mpls ldp backoff
show mpls ldp bindings
show mpls ldp discovery
show mpls ldp forwarding

show mpls ldp graceful-restart
show mpls ldp igp sync
show mpls ldp interface
show mpls ldp neighbor
show mpls ldp parameters
show mpls ldp statistics msg-counters
show mpls ldp summary
show mpls lsd applications
show mpls lsd clients
show mpls oam
show mpls oam database
show mpls traffic-eng affinity-map
show mpls traffic-eng auto-tunnel backup
show mpls traffic-eng auto-tunnel mesh
show mpls traffic-eng autoroute
show mpls traffic-eng collaborator-timers
show mpls traffic-eng counters signaling
show mpls traffic-eng ds-te te-class
show mpls traffic-eng fast-reroute database
show mpls traffic-eng fast-reroute log
show mpls traffic-eng forwarding
show mpls traffic-eng forwarding-adjacency
show mpls traffic-eng igp-areas
show mpls traffic-eng link-management admission-control
show mpls traffic-eng link-management advertisements
show mpls traffic-eng link-management bandwidth-allocation
show mpls traffic-eng link-management bfd-neighbors
show mpls traffic-eng link-management igp-neighbors
show mpls traffic-eng link-management interfaces
show mpls traffic-eng link-management soft-preemption
show mpls traffic-eng link-management statistics
show mpls traffic-eng link-management summary
show mpls traffic-eng maximum tunnels
show mpls traffic-eng pce peer
show mpls traffic-eng pce tunnels
show mpls traffic-eng preemption l
show mpls traffic-eng topology
show mpls traffic-eng tunnels
show mpls traffic-eng tunnels auto-bw brief
show mrrib client
show mrrib nsf
show mrrib platform trace
show mrrib route
show mrrib route outgoing-interface
show mrrib route-collapse
show mrrib table-info
show mrrib tlc
show msdp globals
show msdp peer
show msdp rpf
show msdp sa-cache
show msdp statistics peer
show msdp summary
show nsr
show nsr ncd queue
show ntp associations
show ntp status
show operational
show ospf
show ospf border-routers
show ospf database
show ospf flood-list
show ospf interface
show ospf message-queue
show ospf mpls traffic-eng
show ospf neighbor
show ospf request-list
show ospf retransmission-list
show ospf routes
show ospf sham-links
show ospf summary-prefix
show ospf virtual-links
show ospfv3
show ospfv3 border-routers
show ospfv3 database
show ospfv3 flood-list
show ospfv3 interface

show ospfv3 neighbor
 show ospfv3 request-list
 show ospfv3 retransmission-list
 show ospfv3 routes
 show ospfv3 summary-prefix
 show ospfv3 virtual-links
 show performance traffic alerts
 show performance traffic clone profile
 show performance-mgmt bgp
 show performance-mgmt interface
 show performance-mgmt mpls
 show performance-mgmt node
 show performance-mgmt ospf
 show pim context
 show pim context table
 show pim group-map
 show pim interface
 show pim join-prune statistic
 show pim mstatic
 show pim neighbor
 show pim nsf
 show pim range-list
 show pim rpf
 show pim rpf hash
 show pim rpf route-policy statistics
 show pim rpf route-policy test
 show pim rpf summary
 show pim summary
 show pim topology
 show pim topology detail
 show pim topology entry-flag
 show pim topology interface-flag
 show pim topology summary
 show pim traffic
 show pim tunnel info
 show platform
 show plugin slot counts
 show policy-map interface
 show policy-map shared-policy-instance
 show policy-map targets
 show policy-map type performance-traffic
 show ppp interfaces
 show ppp sso
 show ppp sso state
 show ppp sso summary
 show prefix-list
 show prefix-list afi-all
 show prefix-list ipv4
 show prefix-list ipv4 standby
 show prefix-list ipv6
 show processes
 show protocols (BGP)
 show protocols (EIGRP)
 show protocols (IS-IS)
 show protocols (OSPF)
 show protocols (OSPFv3)
 show protocols (RIP)
 show qos inconsistency
 show qos interface
 show qos shared-policy-instance
 show qos summary
 show radius
 show radius accounting
 show radius authentication
 show radius client
 show radius dead-criteria
 show radius server-groups
 show raw brief
 show raw detail pcb
 show raw extended-filters
 show raw statistics pcb
 show rcc
 show reboot
 show redundancy
 show rib
 show rib afi-all
 show rib attributes
 show rib client-id

show rib clients
show rib extcomms
show rib firsthop
show rib history
show rib next-hop
show rib opaques
show rib protocols
show rib recursion-depth-max
show rib statistics
show rib tables
show rib trace
show rib vpn-attributes
show rib vrf
show rip
show rip database
show rip interface
show rip statistics
show route
show route backup
show route best-local
show route connected
show route local
show route longer-prefixes
show route next-hop
show route quarantined
show route resolving-next-hop
show route static
show route summary
show rpl
show rpl active as-path-set
show rpl active community-set
show rpl active extcommunity-set
show rpl active prefix-set
show rpl active rd-set
show rpl active route-policy
show rpl as-path-set
show rpl as-path-set attachpoints
show rpl as-path-set references
show rpl community-set
show rpl community-set attachpoints
show rpl community-set references
show rpl extcommunity-set
show rpl inactive as-path-set
show rpl inactive community-set
show rpl inactive extcommunity-set
show rpl inactive prefix-set
show rpl inactive rd-set
show rpl inactive route-policy
show rpl maximum
show rpl policy-global references
show rpl prefix-set
show rpl prefix-set attachpoints
show rpl prefix-set references
show rpl rd-set
show rpl rd-set attachpoints
show rpl rd-set references
show rpl route-policy
show rpl route-policy attachpoints
show rpl route-policy inline
show rpl route-policy references
show rpl route-policy uses
show rpl unused as-path-set
show rpl unused community-set
show rpl unused extcommunity-set
show rpl unused prefix-set
show rpl unused rd-set
show rpl unused route-policy
show rsvp authentication
show rsvp counters
show rsvp counters oor
show rsvp counters prefix-filtering
show rsvp fast-reroute
show rsvp graceful-restart
show rsvp hello instance
show rsvp hello instance interface-based
show rsvp interface
show rsvp neighbor
show rsvp request

show rsvp reservation
show rsvp sender
show rsvp session
show running performance-mgmt
show running-config
show sam certificate
show sam crl
show sam log
show sam package
show sam sysinfo
show sap
show sdr
show sessions
show snmp
show snmp context-mapping
show snmp engineid
show snmp entity
show snmp group
show snmp host
show snmp interface
show snmp interface notification
show snmp interface regular-expression
show snmp mib
show snmp request duplicates
show snmp users
show snmp view
show sonet-local trace frr
show spanning-tree mst
show spanning-tree mst bpdu interface
show spanning-tree mst configuration
show spanning-tree mst errors
show spanning-tree mst interface
show spanning-tree mst topology-change flushes
show spanning-tree mstag
show spanning-tree mstag bpdu interface
show spanning-tree mstag topology-change flushes
show spanning-tree pvrstag
show spanning-tree pvstag
show spanning-tree repag
show spanning-tree repag bpdu interface
show spanning-tree repag topology-change flushes
show srlg
show ssh
show ssh session details
show ssl
show tacacs
show tacacs server-groups
show tcp brief
show tcp detail
show tcp extended-filters
show tcp nsr brief
show tcp nsr client brief
show tcp nsr detail client
show tcp nsr detail pcb
show tcp nsr detail session-set
show tcp nsr session-set brief
show tcp nsr statistics client
show tcp nsr statistics pcb
show tcp nsr statistics session-set
show tcp nsr statistics summary
show tcp statistics
show tech-support iphc
show terminal
show udp brief
show udp detail pcb
show udp extended-filters
show udp statistics
show user
show users
show variables boot
show variables system
show version
show vrf
show vrrp
show xml schema
show xml sessions
shutdown (BGP)
shutdown (Bridge Domain)

shutdown (IS-IS)
shutdown (MSDP)
shutdown (SONET)
shutdown (T1/E1)
shutdown (T3/E3)
shutdown (VFI)
shutdown (VRF)
shutdown (global)
signaling-protocol
signalled-bandwidth
signalled-name
signalling
signalling advertise explicit-null (MPLS-TE)
signalling disable
signalling dscp (LDP)
signalling dscp (RSVP)
signalling graceful-restart
signalling hello graceful-restart interface-based
signalling hello graceful-restart refresh interval
signalling hello graceful-restart refresh misses
signalling prefix-filtering access-list
signalling prefix-filtering default-deny-action
signalling rate-limit
signalling refresh interval
signalling refresh missed
signalling refresh reduction bundle-max-size
signalling refresh reduction disable
signalling refresh reduction reliable
signalling refresh reduction summary
single-connection
single-topology
site-id
site-of-origin (BGP)
site-of-origin (EIGRP)
site-of-origin (RIP)
sla operation
snmp test trap all
snmp test trap entity
snmp test trap infra
snmp test trap interface
snmp test trap snmp
snmp trap rate-limit
snmp traps mpls traffic-eng
snmp-server chassis-id
snmp-server community
snmp-server community-map
snmp-server contact
snmp-server context
snmp-server engineid local
snmp-server engineid remote
snmp-server entityindex persist
snmp-server group
snmp-server host
snmp-server ifindex persist
snmp-server ifmib ifalias long
snmp-server ifmib stats cache
snmp-server inform
snmp-server interface
snmp-server interface subset
snmp-server ipv4 dscp
snmp-server ipv4 precedence
snmp-server location
snmp-server mibs cbqosmib cache
snmp-server mibs cbqosmib persist
snmp-server mibs eventmib packet-loss
snmp-server notification-log-mib
snmp-server packetsize
snmp-server queue-length
snmp-server target list
snmp-server throttle-time
snmp-server timeouts subagent
snmp-server trap authentication vrf disable
snmp-server trap link ietf
snmp-server trap throttle-time
snmp-server trap-source
snmp-server trap-timeout
snmp-server traps
snmp-server traps bgp

snmp-server traps ethernet cfm
 snmp-server traps ethernet oam events
 snmp-server traps frame-relay pvc
 snmp-server traps isis
 snmp-server traps mpls l3vpn
 snmp-server traps mpls ldp
 snmp-server traps ospf errors
 snmp-server traps ospf lsa
 snmp-server traps ospf retransmit
 snmp-server traps ospf state-change neighbor-state-change
 snmp-server traps pim interface-state-change
 snmp-server traps pim invalid-message-received
 snmp-server traps pim neighbor-change
 snmp-server traps pim rp-mapping-change
 snmp-server traps rsvp
 snmp-server traps snmp
 snmp-server traps syslog
 snmp-server traps vrrp events
 snmp-server user
 snmp-server view
 snmp-server vrf
 socket receive-buffer-size
 socket send-buffer-size
 soft-preemption
 soft-reconfiguration inbound
 source
 source (NTP)
 source address
 source in
 source port
 spanning-tree mst
 spanning-tree mstag
 spanning-tree pvrstag
 spanning-tree pvstag
 spanning-tree repag
 speaker-id
 speed (DS0)
 speed (Management Ethernet)
 spf prefix-priority
 spf prefix-priority (OSPF)
 spf-interval
 split-horizon disable (EIGRP)
 split-horizon disable (RIP)
 split-horizon group
 spt-threshold infinity
 srlg
 ssh
 ssh client knownhost
 ssh client source-interface
 ssh client vrf
 ssh server
 ssh server logging
 ssh server rate-limit
 ssh server session-limit
 ssh server v2
 ssh timeout
 ssm
 ssm disable
 ssm map static
 ssrp group
 ssrp location
 ssrp profile
 start-time
 startup query count
 startup query iccp-group
 startup query interval
 startup query max-response-time
 startup query port-up disable
 startup query process start
 startup query topology-change
 static group
 static-address (VPLS)
 static-group
 static-mac-address
 static-mac-address (VPLS)
 static-rpf
 statistics
 statistics measure

status-counter
 stopbits
 storm-control
 streaming
 street-address
 sts
 stub (EIGRP)
 stub (OSPF)
 stub (OSPFv3)
 subject-name (trustpoint)
 subscribe-to-alert-group environment
 subscribe-to-alert-group inventory
 subscribe-to-alert-group syslog
 summary-address (EIGRP)
 summary-prefix (IS-IS)
 summary-prefix (OSPF)
 summary-prefix (OSPFv3)
 suppress-route
 suppressed
 switching-tlv (L2VPN)
 symbol-period threshold
 symbol-period window
 system boot-sequence
 system-ip-address

T

table-policy
 tacacs source-interface
 tacacs-server host
 tacacs-server key
 tacacs-server timeout
 tag
 tag (IP SLA)
 tag (IS-IS)
 tags
 target ipv4
 target pseudowire
 target traffic-eng
 task
 taskgroup
 tcn flood disable
 tcn flood query count
 tcn query solicit
 tcn-propagation
 tcp compression
 tcp context absolute
 tcp mss
 tcp path-mtu-discovery
 tcp selective-ack
 tcp synwait-time
 tcp timestamp
 tcp window-size
 telnet
 telnet client source-interface
 telnet dscp
 telnet server
 telnet transparent
 template
 terminal exec
 terminal length
 terminal monitor
 terminal width
 tftp client source-interface
 tftp server
 threshold
 threshold (SONET path)
 threshold (SONET)
 threshold type average
 threshold type consecutive
 threshold type immediate
 threshold type xofy
 throttle
 timers pacing flood
 time (VPLS)
 timeout
 timeout (IP SLA)
 timeout (RADIUS)

timeout (TACACS+)
 timeout (soft-preemption)
 timeout login response
 timeout-rootcause
 timers (APS)
 timers (BGP)
 timers (DAGR)
 timers active-time
 timers basic
 timers bgp
 timers loose-path (MPLS-TE)
 timers lsa arrival
 timers lsa group-pacing
 timers lsa min-arrival
 timers nsf route-hold (EIGRP)
 timers pacing lsa-group
 timers pacing retransmission
 timers removal unused (auto-tunnel backup)
 timers throttle lsa all (OSPF)
 timers throttle lsa all (OSPFv3)
 timers throttle spf (OSPF)
 timers throttle spf (OSPFv3)
 timeslots
 timestamp disable
 topology holddown sigerr (MPLS-TE)
 topology-id
 tos
 trace
 trace (IS-IS)
 traceroute
 traceroute cache
 traceroute ethernet cfm
 traceroute mpls ipv4
 traceroute mpls multipath
 traceroute mpls traffic-eng
 traceroute mpls traffic-eng tunnel-te (P2P)
 traceroute pseudowire multisegment
 transmit hold-count
 transmit-delay

transmit-delay (OSPF)
 transmit-delay (OSPFv3)
 transmit-delay (serial)
 transport input
 transport mode (L2VPN)
 transport output
 transport preferred
 transport-mode
 trust relay-reply
 trusted
 trusted-key
 ttl
 ttl-check disable
 ttl-security
 ttl-threshold (MSDP)
 ttl-threshold (multicast)
 tug3
 tunnel-id (auto-tunnel backup)
 type (VPLS)
 type icmp echo
 type icmp path-echo
 type icmp path-jitter
 type mpls lsp ping
 type mpls lsp trace
 type udp echo
 type udp ipv4 address
 type udp jitter

U

uneq-shut (SONET path)
 uni-directional link-fault detection
 unidirectional
 unknown-unicast-bmac
 unmount
 unsolicited-report-interval
 unsuppress-route
 update-calendar
 update-source

[upgrade hw-module fpd](#)
[use](#)
[usergroup](#)
[username](#)
[users group](#)
[utility bc](#)
[utility cut](#)
[utility date](#)
[utility date set](#)
[utility df](#)
[utility du](#)
[utility egrep](#)
[utility fgrep](#)
[utility find](#)
[utility head](#)
[utility less](#)
[utility mv](#)
[utility sort](#)
[utility tail](#)
[utility uniq](#)
[utility wc](#)
[utility which](#)
[utility xargs](#)

V

[validate-update-source disable](#)
[variance](#)
[verify-data](#)
[version](#)
[vfi \(VPLS\)](#)
[violate-action](#)
[virtual-link \(OSPF\)](#)
[virtual-link \(OSPFv3\)](#)
[vlan](#)
[vlan-id \(MSTP\)](#)
[vlan-ids \(MSTAG/REPAG\)](#)
[vpn-distinguisher is](#)
[vrf](#)

[vrf \(BGP\)](#)
[vrf \(EIGRP\)](#)
[vrf \(IP SLA MPLS LSP monitor\)](#)
[vrf \(IP SLA\)](#)
[vrf \(MPP\)](#)
[vrf \(OSPF\)](#)
[vrf \(OSPFv3\)](#)
[vrf \(RADIUS\)](#)
[vrf \(RIP\)](#)
[vrf \(TACACS+\)](#)
[vrf \(XML\)](#)
[vrf \(description\)](#)
[vrf \(igmp\)](#)
[vrf \(mhost\)](#)
[vrf \(multicast\)](#)
[vrf \(relay profile\)](#)
[vrf \(static\)](#)
[vrf mode](#)
[vrf\(address-family\)](#)
[vrrp](#)
[vrrp assume-ownership disable](#)
[vrrp bfd fast-detect](#)
[vrrp bfd minimum-interval](#)
[vrrp bfd multiplier](#)
[vrrp delay](#)
[vrrp ipv4](#)
[vrrp preempt](#)
[vrrp priority](#)
[vrrp text-authentication](#)
[vrrp timer](#)
[vrrp track interface](#)
[vty-pool](#)

W

[wait-to-restore](#)
[weight](#)
[width](#)
[width \(display\)](#)

window-size (RSVP)

withdraw (VPLS)

X

xconnect group

xml agent

xml agent ssl

xml agent tty

Y

yellow

