



New, Changed, and Deprecated Commands in Cisco Nexus 9000 Release 9.3(5)

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The following sections describe changes in the Cisco Nexus 9000 CLI since Release 9.3(4).

New Commands

The following commands are added in this release.

- [no] lpps polarity <polarity>
- [no] anti-jam disable
- [no] bfd local-address { <src_ip> | <src_ipv6> }
- [no] bluez frob
- [no] brk-host <name-or-ip> port <portnum> use-vrf { default | <vrf-cfg-name> }
- [no] broker <broker-id>
- [no] cable-delay compensation <compens>
- [no] certificate <trustpoint-label>
- [no] chassis associate <chassis_no> chassis-serial <serial_no> module-serial <mod_serial> port-profile <profile_name> module-side { left | right }
- [no] chassis management-instance <inst> fabric <fabric_no>
- clear dot1x dacl-clients
- clear epbr statistics policy <policy-name>
- clear esmc counters [interface <if0>]
- clear fabric multicast internal bintrace mts
- clear forwarding distribution internal adj-msg-history
- clear forwarding distribution internal route-msg-history
- clear forwarding trace mfib mct-history
- clear forwarding trace nve-l2-vni-history [module <module>]
- clear ngoam loop-detection statistics
- clear queuing llfc-queue [interface <if_list>] [module <module>]
- clear tunnel-encryption statistics [peer-ip <peer_ipaddress_v4>]
- clear upgrade history
- clear zone smart-zoning { { vsan1 <vsan_id> } | { fcalias name <fcalias_name> vsan2 <vsan_id> | zone name1 <zone_name> vsan2 <vsan_id> | zoneset name2 <zs_name> vsan2 <vsan_id> } }

- clock-interface sync <clk-interface>
- [no] constellation <constellation>
- dchal module <module>
- dchal module <module> <quoted-cmd>
- [no] dci-advertise-pip
- [no] default-route nssa-abr pbit-clear
- [no] device-alias mode enhanced
- [no] disable { vlan <vlan-range> } [port <port-range>]
- [no] disable-smart-zoning
- [no] dot1x authentication order <auth_order>
- [no] elevation threshold <thres>
- encapsulation-type <encaptype>
- [no] epbr ip policy <policy-name> } [reverse]
- [no] epbr ipv6 policy <policy-name> } [reverse]
- [no] epbr policy <policy-name>
- [no] epbr service <service-name>
- epbr session
- epbr session access-list <acl-name> refresh
- [no] event-history nve [size { <size_in_text> | <bytes> | disable }]
- [no] feature epbr
- [no] feature frequency-synchronization
- [no] feature intersight
- [no] feature tunnel-encryption
- [no] filter file <file-name> md5 <md5-hash-value>
- [no] flow event <eventname>
- [no] flow rtp history <size>
- [no] frequency synchronization
- [no] fsync clock-identity <mac-address>
- [no] fsync esmc peer receive timeout { 0 | <value> }
- [no] fsync quality itu-t option { 1 | 2 generation { 1 | 2 } }
- [no] fsync transmit dnu lag-members
- gnss-receiver sync <clk-interface>

- [no] gps-input tod-format <tod-format-enum> pps-input <pps-input> [offset <offset>] [baud-rate <baudrate>]
- [no] gps-output pps-output <pps-output> tod-format <tod-format-enum> [baud-rate <baudrate>]
- [no] hardware fan-sprom
- [no] hardware forwarding ip statistics
- [no] hardware N2232P slow-port-error-disable-time <val>
- [no] hardware N2232TM-E slow-port-error-disable-time <val>
- [no] hardware qos internal-interface dynamic { ingress <ing-val> [egress <eg-val>] | egress <eg-val> }
- [no] hardware qos internal-interface pause buffer-size <buf-size> pause-threshold <pause-thres> resume-threshold <resume-thres>
- [no] hardware UCS2204XP slow-port-error-disable-time <val>
- [no] hardware UCS2208XP slow-port-error-disable-time <val>
- [no] icam monitor system
- [no] icam monitor system { { threshold info <ithres> warning <wthres> critical <cthres> } }
- install process <action> <process>
- [no] intersight frob
- [no] ip multicast pmn-rpf-batch-timer <time-out>
- [no] ip pim event-history objstore { size { <size_in_text> | <size_in_kbytes> } }
- [no] ip routing multicast trace entries [<num-entries>] | ip routing multicast trace entries <num-entries>
- [no] ip routing multicast trace records [<num-rec>] | ip routing multicast trace records <num-rec>
- [no] ip service-reflect mode { ingress | egress } <prefix>
- [no] ip service-reflect source-interface <interface>
- [no] ip udp relay addrgroup <obj-grp-name>
- [no] ipv6 link-local use-bia
- [no] ipv6 nd drop-fragments
- [no] ipv6 pim event-history objstore { size { <size_in_text> | <size_in_kbytes> } }
- [no] ipv6 routing multicast event-history objstore-error { size { <size_in_text> | <size_in_kbytes> } }
- [no] ipv6 routing multicast event-history objstore-events { size { <size_in_text> | <size_in_kbytes> } }
- [no] isolate [include-local]
- [no] kafka
- [no] kafka-broker <broker-name> encoding <encoder>

- [no] kafka-producer <producer-name>
- [no] kafka-topic <topic-name>
- [no] key <tunnelencryption_keyid>
- [no] key chain <keychain> tunnel-encryption
- [no] key-chain tunnelencrypt-psk no-show
- key-octet-string 6 <keystring> cryptographic-algorithm AES_128_CMAC
- key-octet-string 6 <keystring> cryptographic-algorithm AES_256_CMAC
- [no] keychain <keychain_name> [policy <policy_name>]
- [no] limit-resource vni_bd minimum <min-val> maximum { <max-val> | equal-to-min }
- [no] link loopback
- [no] link-level-flow-control watch-dog-interval { on | off }
- [no] logging level dot1x <i0>
- [no] logging level epbr <i0>
- [no] logging level fs-daemon <i0>
- [no] logging level fsync_mgr <i0>
- [no] logging level syncce <i0>
- [no] logging level tunnel-encryption <i0>
- [no] mac address-table static clear
- [no] match ip address <acl-name>
- [no] match ip { source | destination } address
- [no] match ipv6 address <acl-name>
- [no] maximum-paths local <mpath-count>
- [no] mode { none | hybrid | non-hybrid }
- mts callhome age <i0>
- [no] multicast flow-path disable-stats-table
- [no] multicast flow-path export
- [no] multicast service-reflect interface { <if-name> | all } map interface <serv-if-name> [max-replication <repl-count>]
- [no] nbm flow reserve-bandwidth receiver-only
- [no] ngoam loop-detection
- ngoam loop-detection bringup { vlan <vlan-range> } [port <port-range>]
- ngoam loop-detection probe { vlan <vlan-range> } [port <port-range>]

- [no] nxapi idle-timeout <i0>
- [no] object-group udp relay ip address <obj-grp-name>
- [no] pdop threshold <thres>
- [no] periodic-probe-interval <val>
- [no] platform proactive-cc forwarding [incremental <timer-incremental>] [fulldb <timer-fulldb>]
- port-parameters
- [no] port-recovery-interval <val>
- [no] priority <value>
- [no] priority critical
- [no] probe track <track-id>
- [no] probe { icmp | <l4-proto> <port-num> [control <status>] | http get [<url-name>] | dns host <host-name> } [frequency <freq-num> | timeout <timeout> | retry-down-count <down-count> | retry-up-count <up-count> | source-interface <src-intf>] +
- [no] producer <producer-id>
- [no] ptp acl-redirect
- [no] ptp delay tolerance { reverse-path | mean-path } <threshold-value> | no ptp delay tolerance { reverse-path | mean-path }
- [no] ptp destination-mac { forwardable | non-forwardable } rx-no-match { accept | drop | follow-rx }
- [no] ptp master <ipv4>
- [no] ptp notification type gm-change
- [no] ptp notification type parent-change
- [no] ptp notification type port-state-change [category { all | master-slave-only }] [interval { immediate | <intv-val> } [periodic-notification { enable | disable }]]
- [no] ptp profile { default | 8275-1 | 8275-2 }
- [no] ptp profile-override
- [no] ptp role { dynamic | master | slave }
- [no] ptp slave <ipv4>
- [no] ptp transmission { multicast | unicast }
- [no] ptp transport { ipv4 | ethernet }
- python3 [<uri> [<pyargs>] +]
- [no] quality receive { { exact itu-t option { 1 <q1_o1> | 2 generation { 1 <q1_o2_g1> | 2 <q1_o2_g2> } } } | { lowest itu-t option { 1 <q1_o1> highest <q1_o1> | 2 generation { 1 <q1_o2_g1> highest <q1_o2_g1> | 2 <q1_o2_g2> highest <q1_o2_g2> } } } | { highest itu-t option { 1 <q1_o1> | 2 generation { 1 <q1_o2_g1> | 2 <q1_o2_g2> } } } }

- [no] quality transmit { { exact itu-t option { 1 <q1_o1> | 2 generation { 1 <q1_o2_g1> | 2 <q1_o2_g2> } } } | { lowest itu-t option { 1 <q1_o1> highest <q1_o1> | 2 generation { 1 <q1_o2_g1> highest <q1_o2_g1> | 2 <q1_o2_g2> highest <q1_o2_g2> } } } | { highest itu-t option { 1 <q1_o1> | 2 generation { 1 <q1_o2_g1> | 2 <q1_o2_g2> } } } }
- [no] rd dual [id <value>]
- reload [e2fsck]
- reload module <module> non-disruptive
- reload system non-disruptive
- [no] request-size <req-size>
- [no] request-timeout <req-timeout>
- [no] reverse { { ip <rev-ip-addr> | ipv6 <rev-ipv6-addr> | interface <revinterface> } + }
- run cid
- run consistency-checker forwarding single-route ipv4 <prefix4> vrf <vrf-name>
- run consistency-checker forwarding single-route ipv6 <prefix6> vrf <vrf-name>
- san-port-channel <channel-id> persistent
- [no] selection input
- [no] service-end-point { { ip <ip-addr> } | { ipv6 <ipv6-addr> } } [interface <interface>]
- [no] service-interface <interface>
- [no] set evpn gateway-ip { <addr> | use-nexthop }
- [no] <seq-num> set service <service-name> [fail-action <action>]
- [no] snr threshold <thres>
- speed auto 100 1000 2500 5000
- speed auto 2500 5000 10000
- [no] ssh ciphers aes256-gcm
- [no] ssh kexalgorithms ecdh-sha2-nistp384
- [no] ssm disable
- switchport fill-pattern { IDLE | ARBFF } speed 8000
- [no] switchport mode private-vlan <pvlan_mode>
- [no] system dot1q-tunnel transit [vlan <vlan-range>]
- [no] system pic-core
- [no] system routing vrf-aware-nat
- tac-pac [snapshot { logs }] [<uri0> [vrf <vrf-known-name>]]
- > [no] traime threshold <thres>

- [no] tunnel-encryption
- [no] tunnel-encryption display-keys
- [no] tunnel-encryption must-secure-policy
- [no] tunnel-encryption sak-rekey { all | [peer-ip <peer_ipaddress_v4>] }
- [no] tunnel-encryption source-interface <interface>
- [no] ucs-infra ipv6-mgmt-ip <ipv6_address> [infra-vlan <infra_vlan_id>] [adaptor-vlan <adaptor_vlan_id>] [epds-port <epds_port_no>]
- vlan { add | remove } <vlans>
- vmtracker connection <conname> refresh
- vp move interface <vifidrange> group <dest-group-id>
- vp { add | remove } interface <vifid>
- [no] vp-group <group-id>
- [no] wait-to-restore <minutes>
- zone convert smart-zoning { { vsan1 <vsan_id> } | { fcalias name <fcalias_name> vsan2 <vsan_id> } | zone name1 <zone_name> vsan2 <vsan_id> | zoneset name2 <zs_name> vsan2 <vsan_id> } }
- [no] zone mode enhanced vsan <i0>
- [no] zone smart-zoning enable vsan <i0>

Changed Commands

The following commands are modified in this release.

- OLD: 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> <syear> { 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> <syear> { 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> } }]
- NEW: accept-lifetime [local] <stime> { smonth_a | smonth_b | smonth_c | smonth_d | smonth_e | smonth_f | smonth_g | smonth_h | smonth_i | smonth_j | smonth_k | smonth_l } <sday> <syear> { duration <dsec> | infinite | <etime> { emonth_a | emonth_b | emonth_c | emonth_d | emonth_e | emonth_f | emonth_g | emonth_h | emonth_i | emonth_j | emonth_k | emonth_l } <eday> <eyear> } } | { no accept-lifetime [[local] <stime> { smonth_a | smonth_b | smonth_c | smonth_d | smonth_e | smonth_f | smonth_g | smonth_h | smonth_i | smonth_j | smonth_k | smonth_l } <sday> <syear> { duration <dsec> | infinite | <etime> { emonth_a | emonth_b | emonth_c | emonth_d | emonth_e | emonth_f | emonth_g | emonth_h | emonth_i | emonth_j | emonth_k | emonth_l } <eday> <eyear> } }]
- OLD: bloggerd log-snapshot <identifier>

- NEW: bloggerd log-snapshot [<identifier> | time <i0> | size <i1> | [purge threshold <i2>] | [storage { bootflash | logflash | usb1 | usb2 }]] +
- OLD: clear bgp event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | socket | all }
- NEW: clear bgp event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | socket | nve | all }
- OLD: clear bgp private { all | global | threads | session | debug | io | memory | af | damp | lists | attr [<ip-prefix> | <ipv6-prefix>] | rpm-info [<rpm-name> { <ip-prefix> | <ipv6-prefix> }] | neighbor { <neighbor-id> | <ipv6-neighbor-id> } | slab | mqstat | ipc | rnh | rpm-attribute-cache | rpm-comm-attr-cache | peer-template <peer-template-name> | aggregates [summary] | bestpath }
- NEW: clear bgp private { all | global | threads | session | debug | io | memory | af | damp | lists | attr [<ip-prefix> | <ipv6-prefix>] | rpm-info [<rpm-name> { <ip-prefix> | <ipv6-prefix> }] | neighbor { <neighbor-id> | <ipv6-neighbor-id> } | slab | mqstat | ipc | rnh | rpm-attribute-cache | rpm-comm-attr-cache | peer-template <peer-template-name> | aggregates [summary] | bestpath | bad-messages }
- OLD: clear ip mroute [repopulate] { { <all> [shared-tree | source-tree] } | { <group-prefix> [shared-tree | source-tree] } } | { <group> [<source> | shared-tree | source-tree] } } [vrf { <vrf-name> | <vrf-known-name> } | all] }
- NEW: clear ip mroute [repopulate] { { <all> [shared-tree | source-tree] } | { <group-prefix> [shared-tree | source-tree] } } | { <group> [<source> | shared-tree | source-tree] } | { sr [ingress | egress] } } [vrf { <vrf-name> | <vrf-known-name> } | all] }
- OLD: clear ipv6 icmp internal event-history { errors | icmpv6-internal | nd | ha | sync-event | sync-event-brief | ipv6-sync-event | vrf | cli | all } [dump-to-file]
- NEW: clear ipv6 icmp internal event-history { errors | icmpv6-internal | nd | ha | sync-event | sync-event-brief | ipv6-sync-event | vrf | cli | adj-events | all } [dump-to-file]
- OLD: clear l2rib event-history { errors | topology | tx-infra | client-table | mac | rmac | mac-ip | ead-pl | misc-obj | server }
- NEW: clear l2rib event-history { errors | topology | tx-infra | client-table | mac | rmac | mac-ip | ead-pl | misc-obj | server | loop-detection }
- OLD: clear logging logfile
- NEW: clear logging logfile [persistent]
- OLD: clear routing [ip | ipv4] [unicast] event-history { add-route | cli | delete-route | detail | dme | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }
- NEW: clear routing [ip | ipv4] [unicast] event-history { add-route | cli | delete-route | detail | dme | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | cc }
- OLD: clear routing ipv6 [unicast] event-history { am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | sidmgr }

- NEW: clear routing ipv6 [unicast] event-history { am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | cc | sidmgr }
- OLD: [no] color <color> endpoint <px>
- NEW: [no] color <color> endpoint { <px> | <ipv6-addr> }
- OLD: copy { { <src_local> { <dest_remote> [ignore-certificate] [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] | { <src_remote> { <dest_local> [compact] | running-config [echo-commands] [stop-at-first-failure] | startup-config } } [ignore-certificate] [source-interface <intf> | vrf <vrf-known-name>] [use-kstack] | { <src_core> { <dest_remote> [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] | { running-config-src { <dest_remote> [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] | { startup-config-src { <dest_remote> [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] }
- NEW: copy { { <src_local> { <dest_remote> [ignore-certificate] [use-tls1.0] [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] | { <src_remote> { <dest_local> [compact] | running-config [echo-commands] [stop-at-first-failure] | startup-config } } [ignore-certificate] [use-tls1.0] [source-interface <intf> | vrf <vrf-known-name>] [use-kstack] | { <src_core> { <dest_remote> [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] | { running-config-src { <dest_remote> [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] | { startup-config-src { <dest_remote> [source-interface <intf> | vrf <vrf-known-name>] } } [use-kstack] }
- OLD: delay { { up <up_delay> [down <down_delay>] } | { down <down_delay> [up <up_delay>] } } | no delay
- NEW: delay { { { up { <up_delay> | { milliseconds <up_delay_ms> } } } [down { <down_delay> | { milliseconds <down_delay_ms> } }] } | { { down { <down_delay> | { milliseconds <down_delay_ms> } } } [up { <up_delay> | { milliseconds <up_delay_ms> } }] } } | no delay [{ { up { <up_delay> | { milliseconds <up_delay_ms> } } } [down { <down_delay> | { milliseconds <down_delay_ms> } }] } | { { down { <down_delay> | { milliseconds <down_delay_ms> } } } [up { <up_delay> | { milliseconds <up_delay_ms> } }] }] }
- OLD: [no] eigrp [<eigrp-ptag>] event-history { cli } size { <size_in_text> | <size_in_Kbytes> }
- NEW: [no] eigrp [<eigrp-ptag>] event-history { cli | ha } size { <size_in_text> | <size_in_Kbytes> }
- OLD: encapsulation { vxlan | gpe } | no encapsulation [vxlan | gpe]
- NEW: encapsulation { vxlan | gpe | srv6 } | no encapsulation [vxlan | gpe | srv6]
- OLD: errdisable { detect cause_detect { all_cause | link-flap_cause | loopback_cause } | recovery { cause_recovery { all_recovery | udld | loopback_recovery | bpduguard | security-violation | psecure-violation | link-flap-recovery | storm-control | dcbx-no-ack | vpc-peerlink | failed-port-state } } } | no errdisable { detect cause_detect { all_cause | link-flap_cause | loopback_cause } | recovery { cause_recovery { all_recovery | udld | loopback_recovery | bpduguard | security-violation | psecure-violation | link-flap-recovery | storm-control | dcbx-no-ack | vpc-peerlink | failed-port-state } } }
- NEW: errdisable { detect cause_detect { all_cause | link-flap_cause | loopback_cause } | recovery { cause_recovery { all_recovery | udld | loopback_recovery | bpduguard | security-violation | psecure-violation | link-flap-recovery | storm-control | dcbx-no-ack | vpc-peerlink | failed-port-state | vlan-membership | pause-rate-limit } } } | no errdisable { detect cause_detect { all_cause | link-flap_cause | loopback_cause } | recovery { cause_recovery { all_recovery | udld | loopback_recovery | bpduguard |

- security-violation | psecure-violation | link-flap-recovery | storm-control | dcbx-no-ack | vpc-peerlink | failed-port-state | vlan-membership | pause-rate-limit } } }
- OLD: eth-port-manager internal-errdisable <ifindex> { udld | bpduguard | loopback | security-violation | psecure-violation | link-flap | dhcp-rate-limit | arp-inspection | storm-control | ip-addr-conflict | ipQos-Dcbxp-compat-fail | port-error <enum-port-err> }
 - NEW: eth-port-manager internal-errdisable <ifindex> { udld | bpduguard | loopback | security-violation | psecure-violation | link-flap | dhcp-rate-limit | arp-inspection | storm-control | ip-addr-conflict | ipQos-Dcbxp-compat-fail | port-error <enum-port-err> | dcbx-no-ack | vpc-peerlink | failed-port-state | vlan-membership | pause-rate-limit }
 - OLD: event track [tag <tag_id>] <object-id> state { any | up | down } | no event track [tag <tag_id>] <object-id>
 - NEW: event track [tag <tag_id>] <object-id> state { any | up | down } | no event track [tag <tag_id>] [<object-id>]
 - OLD: [no] feature catena
 - NEW: [no] feature bluez
 - OLD: [no] hardware profile { vxlan | mpls | acl-stats | acl-eg-ext } module { all | <module> }
 - NEW: [no] hardware profile { vxlan | mpls | mvpn-stats | acl-stats | acl-eg-ext } module { all | <module> }
 - OLD: [no] index <idx> mpls label <lbl>
 - NEW: [no] index <idx> { mpls label <lbl> | segment-routing srv6 <end-sid> }
 - OLD: [no] ip load-sharing address { source-destination [port source-destination2 [symmetric | inner { all | greheader [symmetric] }]] | gre | gre-outer | gtpu | ipv6-flowlabel | ttl | { [udf offset <offset> length <length>] } } | destination port2 destination2 | source } { [rotate <rotate>] | [concatenation] } + [universal-id <random-seed>] | no ip load-sharing address
 - NEW: [no] ip load-sharing address { source-destination [port source-destination2 [symmetric | inner { all [infra-mode] | greheader [symmetric] }]] | gre | gre-outer | gtpu | ipv6-flowlabel | ttl | { [udf offset <offset> length <length>] } } | destination port2 destination2 | source } { [rotate <rotate>] | [concatenation] } + [universal-id <random-seed>] | no ip load-sharing address
 - OLD: [no] ip service-reflect [<src-if>] destination <in-grp> to <out-grp> mask-len <g-mlen> source <in-out-src> [to <out-src> mask-len <s-mlen>] [sequence-number <seq-num>]
 - NEW: [no] ip service-reflect destination <in-grp> to <out-grp> mask-len <g-mlen> source <in-out-src> [to <out-src> mask-len <s-mlen>] [to-udp <udp-to-src-port> <udp-to-dest-port>] [to-udp-src-port <udp-to-src-port>] [to-udp-dest-port <udp-to-dest-port>] [static-oif <out-if>]
 - OLD: [no] ip verify unicast source reachable-via { rx | any [allow-default] } [policy { <policy-name> | <acl_pol_name> }]
 - NEW: [no] ip verify unicast source reachable-via { rx [allow vni-hosts] | any [allow-default] } [policy { <policy-name> | <acl_pol_name> }]

- OLD: [no] ipv6 [icmp] mld internal event-history { cli | group-debug | group-events | ha | interface-debug | interface-event | mld-internal | policy | vrf } size { <size_in_text> | <size_in_Kbytes> }
- NEW: [no] ipv6 [icmp] mld internal event-history { cli | group-debug | group-events | ha | interface-debug | interface-event | mld-internal | policy | vrf } size { <size_in_text> | <size_in_kbytes> }
- OLD: [no] ipv6 routing event-history { am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | sidmgr } size { <size_in_text> | <size_in_bytes> }
- NEW: [no] ipv6 routing event-history { am | cli | detail | dme | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | cc | sidmgr } size { <size_in_text> | <size_in_bytes> }
- OLD: [no] ipv6 verify unicast source reachable-via { rx | any [allow-default] }
- NEW: [no] ipv6 verify unicast source reachable-via { rx [allow vni-hosts] | any [allow-default] }
- OLD: l2rib event-history { client-tbl | ead-pl | errors | mac | mac-ip | misc-obj | rmac | topology | tx-infra | server } size { default | medium | high | very-high }
- NEW: l2rib event-history { client-tbl | ead-pl | errors | mac | mac-ip | misc-obj | rmac | topology | tx-infra | server | loop-detection } size { default | medium | high | very-high }
- OLD: [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> | referral-disable }
- NEW: [no] ldap-server host { <hostipname> } [{ enable-ssl | port <i1> [timeout <i2>] | rootDN <s0> [password { 7 <s1> | <s2> }] | port1 <i3> [timeout1 <i4>] | timeout2 <i5> | referral-disable }
- OLD: [no] lldp { holdtime <i0> | reinit <i1> | timer <i2> | portid-subtype <i3> | tlv-select { management-address | port-description | port-vlan | power-management | system-capabilities | system-description | system-name | dcbsp } }
- NEW: [no] lldp { holdtime <i0> | reinit <i1> | timer <i2> | portid-subtype <i3> | tlv-select { management-address | port-description | port-vlan | power-management | system-capabilities | system-description | system-name | dcbsp | four-wire-power-management } | port-channel | multi-neighbor }
- OLD: [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>] + }
- NEW: [no] load-balance { { { method <lb-method> } | { buckets <buckets> } } + }
- OLD: [no] logging level core <i0>
- NEW: [no] logging level core-dmon <i0>
- OLD: [no] logging logfile <s0> <i0> [size <i1>]
- NEW: [no] logging logfile <s0> <i0> [size <i1>] [persistent threshold <i2>]

- OLD: [no] member { device-alias <s0> [lun <lun0>] | domain-id <i1> port-number <i2> | fcalias <s1> | fcid <fcid3> [lun1 <lun4>] | fwwn <wwn5> | interface <if0> [{ domain-id1 <i6> | swwn <wwn7> }] | pwwn <wwn9> [lun2 <lun10>] | symbolic-nodename <s2> }
- NEW: [no] member { device-alias <s0> [lun <lun0>] [{ initiator | target | both }] | domain-id <i1> port-number <i2> | fcalias <s1> | fcid <fcid3> [lun1 <lun4>] [{ initiator | target | both }] | fwwn <wwn5> | interface <if0> [{ domain-id1 <i6> | swwn <wwn7> }] | pwwn <wwn9> [lun2 <lun10>] [{ initiator | target | both }] | symbolic-nodename <s2> }
- OLD: [no] member { device-alias <s0> [lun <lun0>] | domain-id <i1> port-number <i2> | fcid <fcid3> [lun1 <lun4>] | fwwn <wwn5> | interface <if0> [{ domain-id1 <i6> | swwn <wwn7> }] | pwwn <wwn9> [lun2 <lun10>] | symbolic-nodename <s1> }
- NEW: [no] member { device-alias <s0> [lun <lun0>] [{ initiator | target | both }] | domain-id <i1> port-number <i2> | fcid <fcid3> [lun1 <lun4>] [{ initiator | target | both }] | fwwn <wwn5> | interface <if0> [{ domain-id1 <i6> | swwn <wwn7> }] | pwwn <wwn9> [lun2 <lun10>] [{ initiator | target | both }] | symbolic-nodename <s1> }
- OLD: [no] mvr-group { { <ip-addr> <ip-mask> } [{ vlan <vlan-id> }] }
- OLD: [no] mvr-group { { <ip-addr> count <count> } [{ vlan <vlan-id> }] }
- OLD: [no] mvr-group { { <ip-addr> } [{ vlan <vlan-id> }] }
- NEW: [no] mvr-group { <ip-addr> [count <count> | <ip-mask>] } [{ vlan <vlan-id> }] }
- OLD: [no] nxsdk remote port <port> [namespace { <vrf-name> | <vrf-known-name> }] }
- NEW: [no] nxsdk remote port <port> [namespace { <vrf-name> | <vrf-known-name> }] [certificate <cert-id>] }
- OLD: { [<seqno>] | no } <permitdeny> <proto_icmpv6> { { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [{ <icmpv6_type> [<icmpv6_code>]] | { dscp { <dscp_num> | <dscp_str> } } | { flow-label <flow_num> } | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }] + } | [<icmpv6_str> | { dscp { <dscp_num> | <dscp_str> } } | { flow-label <flow_num> } | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }] + } } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [{ dscp { <dscp_num> | <dscp_str> } }] [{ flow-label <flow_num> }] [fragments] [log] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }] [{ udf { <udf_name> <udf_val> <udf_mask> } + }] + } } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] [{ <actionv6> <actionidv6> }] }
- NEW: { [<seqno>] | no } <permitdeny> <proto_icmpv6> { { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [{ <icmpv6_type> [<icmpv6_code>]] | { dscp { <dscp_num> | <dscp_mask> } | <dscp_str> } } | { flow-label <flow_num> } | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }] + } | [<icmpv6_str> | { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } } | { flow-label <flow_num> } |

```
[ log ] [ telemetry_queue ] [ telemetry_path ] [ time-range <time_range_name> ] | packet-length {
<plen_op> <plen0> | <plen_range> <plen1> <plen2> } } + } | { { <src_any> | { <src_addr> <src_wild> }
} | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any>
| { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp
<dst_addrgrp_name> } } { { { dscp { <dscp_num> [ <dscp_mask> ] | <dscp_str> } } } [ { flow-label
<flow_num> } ] [ fragments ] [ log ] [ telemetry_queue ] [ telemetry_path ] [ time-range
<time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } ] [ { udf
{ <udf_name> <udf_val> <udf_mask> } + } ] + } [ vlan <vlanid> | ingress_intf { <intfid> | <intfname>
} | vlan_priority <vlanpriorityid> ] + [ capture session <session-id> ] { [ <actionv6> <actionidv6> ] } }
```

- OLD: { [<seqno>] | no } <permitdeny> <proto_igmp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [log] [time-range <time_range_name>] | <igmp_num> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } }] + | [log] [time-range <time_range_name>] | <igmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } }] + | [log] [time-range <time_range_name>] | <igmp_num> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } }] + | [log] [time-range <time_range_name>] | <igmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } }] + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [fragments] | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> }] } + | [fragments] | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + } [capture session <session-id>] { [<action> <actionid>] } + [log] }
- NEW: { [<seqno>] | no } <permitdeny> <proto_igmp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | <igmp_num> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } }] + | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | <igmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } }] + | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | <igmp_num> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } }] + | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | <igmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } }] + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [fragments] | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } } | { ttl <ttl_num> }] } + | [fragments] | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + } [capture session <session-id>] { [<action> <actionid>] } + [log] }

- OLD: { [<seqno>] | no } <permitdeny> <proto_sctp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> } }] [{ [dscp { <dscp_num> | <dscp_str> } }] [{ flow-label <flow_num> }] [log] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] } + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ [dscp { <dscp_num> | <dscp_str> } }] [{ flow-label <flow_num> }] [fragments] [log] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] } + } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] }
- NEW: { [<seqno>] | no } <permitdeny> <proto_sctp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> } }] [{ [dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } }] [{ flow-label <flow_num> }] [log] [telemetry_queue [telemetry_path] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] } + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ [dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } }] [{ flow-label <flow_num> }] [fragments] [log] [telemetry_queue [telemetry_path] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] } + } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] }
- OLD: { [<seqno>] | no } <permitdeny> <proto_tcp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> } }] [{ [dscp { <dscp_num> | <dscp_str> } }] [{ flow-label <flow_num> }] [log] [time-range <time_range_name>] [{ urg | ack | psh | rst | syn | fin | established] | { tcp-flags-mask <tcp_flags_mask> }] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] } + [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ [dscp { <dscp_num> | <dscp_str> } }] [{ flow-label <flow_num> }] [fragments] [log] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] } + } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] [{ <actionv6> <actionidv6> }] }

- NEW: { [<seqno>] | no } <permitdeny> <proto_tcp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> }] [{ { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } } }] [{ flow-label <flow_num> }] [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] [urg | ack | psh | rst | syn | fin | established] [tcp-flags-mask <tcp_flags_mask>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] + [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] [{ <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } }] [{ flow-label <flow_num> }] [fragments] [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }] [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] + }] [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] [{ <actionv6> <actionidv6> }] }
- OLD: { [<seqno>] | no } <permitdeny> <proto_udp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> }] [{ { dscp { <dscp_num> | <dscp_str> } } }] [{ flow-label <flow_num> }] [log] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] + [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] [nve vni <vni-id>] [{ <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ { dscp { <dscp_num> | <dscp_str> } } }] [{ flow-label <flow_num> }] [fragments] [log] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }] [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] + }] [nve vni <vni-id>] [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] [{ <actionv6> <actionidv6> }] }
- NEW: { [<seqno>] | no } <permitdeny> <proto_udp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> }] [{ { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } } }] [{ flow-label <flow_num> }] [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] [packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> }]] + [{ udf { <udf_name> <udf_val> <udf_mask> } + }]] [nve vni <vni-id>] [{ <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } } }] [{ flow-label <flow_num> }] [fragments] [log] [telemetry_queue]


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] [ telemetry_path ] [ time-range <time_range_name> ] [ packet-length { <plen_op> <plen0> |
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vni <vni-id> ] [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ]
+ [ capture session <session-id> ] [ { <actionv6> <actionidv6> } ]

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- OLD: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_tcp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> }] } { [urg | ack | psh | rst | syn | fin | established | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> | <dscp_str> } } | { http-method { <opt_num> | <opt_str> } } | { tcp-option-length <tcp_opt_len> } | { tcp-flags-mask <tcp_flags_mask> } | { ttl <ttl_num> }] } + | [[urg | ack | psh | rst | syn | fin | established | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] } { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [[fragments] | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }] } + | [[fragments] | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }] } + } } } } } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + { [[urg | ack | psh | rst | syn | fin | established | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> | <dscp_str> } } | { http-method { <opt_num> | <opt_str> } } | { tcp-option-length <tcp_opt_len> } | { tcp-flags-mask <tcp_flags_mask> } | { ttl <ttl_num> }] } + | [[urg | ack | psh | rst | syn | fin | established | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] [capture session <session-id>] [{ <action> <actionid> }] + [log]

- NEW: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_tcp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> }] } { [urg | ack | psh | rst | syn | fin | established | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } } | { http-method { <opt_num> | <opt_str> } } | { tcp-option-length <tcp_opt_len> } | { tcp-flags-mask <tcp_flags_mask> } | { ttl <ttl_num> }] } + | [[urg | ack | psh | rst | syn | fin | established | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] } { { <src_any> | {

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] [ telemetry_path ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> |
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+ } } } } [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] +
{ [ [ urg | ack | psh | rst | syn | fin | established ] | [ log ] [ telemetry_queue ] [ telemetry_path ] [ time-range
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urg | ack | psh | rst | syn | fin | established ] | [ log ] [ telemetry_queue ] [ telemetry_path ] [ time-range
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udf { <udf_name> <udf_val> <udf_mask> } + } ] [ capture session <session-id> ] [ { <action> <actionid>
} ] } + [ log ]

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- OLD: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_udp> { { { <src_any>
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} }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | {
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| <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> }] } + | {
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{ <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }
] } + | [[fragments] | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> |
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] + { [[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range>
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udf { <udf_name> <udf_val> <udf_mask> } + }] # 2324 ../feature/acl_mgr/cli/aclmgr.cmd [capture
session <session-id>] [{ <action> <actionid> }] } + [log]
- NEW: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_udp> { { { <src_any>
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} }]

- ```

}] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | {
dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | {
<dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup
<dst_port_group> }] { { [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>
] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> [
<dscp_mask>] | <dscp_str> } } } | { ttl <ttl_num> } } } + | { [log] [telemetry_queue] [telemetry_path
] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } } | { ttl
<ttl_num> } } } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] [nve vni <vni-id>] } | { {
<src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host
<dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [fragments] | [log] [telemetry_queue
] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> |
<plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> [<dscp_mask>] | <dscp_str> } } } | { ttl
<ttl_num> } } | { udf { <udf_name> <udf_val> <udf_mask> } + } } } + | { [fragments] | [log] [
telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op>
<plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } } | { precedence {
<prec_num> | <prec_str> } } } | { ttl <ttl_num> } } | { udf { <udf_name> <udf_val> <udf_mask> } + } } }
+ } } } [nve vni <vni-id>] } } } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority
<vlanpriorityid>] + { { [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>
] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> [
<dscp_mask>] | <dscp_str> } } } | { ttl <ttl_num> } } } + | { [log] [telemetry_queue] [telemetry_path
] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } } | { tos { <tos_num> | <tos_str> } } } | { precedence { <prec_num> | <prec_str> } } } | { ttl
<ttl_num> } } } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] # 2350
../feature/acl_mgr/cli/aclmgr.cmd [capture session <session-id>] { [<action> <actionid>] } + [log]

```
- OLD: { [ <seqno> ] | no } <permitdeny> { { ipv6 | <proto> | <ipv6\_other\_proto> } } { <src\_any> | { <src\_addr> <src\_wild> } | <src\_prefix> | { src\_key\_host <src\_host> } | { src\_key\_addrgrp <src\_addrgrp\_name> } } } { <dst\_any> | { <dst\_addr> <dst\_wild> } | <dst\_prefix> | { dst\_key\_host <dst\_host> } | { dst\_key\_addrgrp <dst\_addrgrp\_name> } } } { [ { dscp { <dscp\_num> | <dscp\_str> } } ] [ { flow-label <flow\_num> } ] [ fragments ] [ log ] [ time-range <time\_range\_name> ] [ packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } ] [ { udf { <udf\_name> <udf\_val> <udf\_mask> } + } ] } + [ vlan <vlanid> | ingress\_intf { <intfid> | <intfname> } | vlan\_priority <vlanpriorityid> ] + [ { udf { <udf\_name> <udf\_val> <udf\_mask> } + } ] [ capture session <session-id> ] { [ <actionv6> <actionidv6> ] } | { udf { <udf\_name> <udf\_val> <udf\_mask> } + } }
  - NEW: { [ <seqno> ] | no } <permitdeny> { { ipv6 | <proto> | <ipv6\_other\_proto> } } { <src\_any> | { <src\_addr> <src\_wild> } | <src\_prefix> | { src\_key\_host <src\_host> } | { src\_key\_addrgrp <src\_addrgrp\_name> } } } { <dst\_any> | { <dst\_addr> <dst\_wild> } | <dst\_prefix> | { dst\_key\_host <dst\_host> } | { dst\_key\_addrgrp <dst\_addrgrp\_name> } } } { [ { dscp { <dscp\_num> [ <dscp\_mask> ] | <dscp\_str> } } ] [ { flow-label <flow\_num> } ] [ fragments ] [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range <time\_range\_name> ] [ packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } ] [ { udf { <udf\_name> <udf\_val> <udf\_mask> } + } ] } + [ vlan <vlanid> | ingress\_intf { <intfid> | <intfname> } | vlan\_priority <vlanpriorityid> ] + [ { udf { <udf\_name> <udf\_val> <udf\_mask> } + } ] [ capture session <session-id> ] { [ <actionv6> <actionidv6> ] } | { udf { <udf\_name> <udf\_val> <udf\_mask> } + } }
  - OLD: { [ <seqno> ] | no } <permitdeny> { { { ethertype <ethertypeid> } } | { <proto\_icmp> { { { <src\_any> | { <src\_addr> <src\_wild> } | <src\_prefix> | { src\_key\_host <src\_host> } | { src\_key\_addrgrp <src\_addrgrp\_name> } } } } { <dst\_any> | { <dst\_addr> <dst\_wild> } | <dst\_prefix> | { dst\_key\_host <dst\_host> } | { dst\_key\_addrgrp <dst\_addrgrp\_name> } } } } { [ log ] [ time-range <time\_range\_name>

```

] | { <icmp_type> [<icmp_code>] } | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } | { dscp { <dscp_num> | <dscp_str> } }] + [[log] [time-range <time_range_name>] |
<icmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp {
<dscp_num> | <dscp_str> } }] + [[log] [time-range <time_range_name>] | { <icmp_type> [
<icmp_code>] } | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos {
<tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } }] + [[log] [time-range
<time_range_name>] | <icmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2>
} | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } }] + } | { { <src_any>
| { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host
<dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [[fragments] | [log] [time-range
<time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp
{ <dscp_num> | <dscp_str> } } | { ttl <ttl_num> }]] + | [[fragments] | [log] [time-range
<time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos {
<tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }]] + } } }
} [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture
session <session-id>] { [<action> <actionid>] } + [log] }

```

- NEW: { [ <seqno> ] | no } <permitdeny> { { { ethertype <ethertypeid> } | { <proto\_icmp> { { <src\_any>
| { <src\_addr> <src\_wild> } | <src\_prefix> | { src\_key\_host <src\_host> } | { src\_key\_addrgrp
<src\_addrgrp\_name> } } } { <dst\_any> | { <dst\_addr> <dst\_wild> } | <dst\_prefix> | { dst\_key\_host
<dst\_host> } | { dst\_key\_addrgrp <dst\_addrgrp\_name> } } } } { [ [ log ] [ telemetry\_queue ] [ telemetry\_path
] [ time-range <time\_range\_name> ] | { <icmp\_type> [ <icmp\_code> ] } | packet-length { <plen\_op>
<plen0> | <plen\_range> <plen1> <plen2> } | { dscp { <dscp\_num> [ <dscp\_mask> ] | <dscp\_str> } } ]
+ | [ [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range <time\_range\_name> ] | <icmp\_str> |
packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } | { dscp { <dscp\_num> [
<dscp\_mask> ] | <dscp\_str> } } ] + | [ [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range
<time\_range\_name> ] | { <icmp\_type> [ <icmp\_code> ] } | packet-length { <plen\_op> <plen0> |
<plen\_range> <plen1> <plen2> } | { tos { <tos\_num> | <tos\_str> } } | { precedence { <prec\_num> |
<prec\_str> } } ] + | [ [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range <time\_range\_name> ] |
<icmp\_str> | packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } | { tos { <tos\_num>
| <tos\_str> } } | { precedence { <prec\_num> | <prec\_str> } } ] + } } | { { <src\_any> | { <src\_addr>
<src\_wild> } | <src\_prefix> | { src\_key\_host <src\_host> } | { src\_key\_addrgrp <src\_addrgrp\_name> }
} } { <dst\_any> | { <dst\_addr> <dst\_wild> } | <dst\_prefix> | { dst\_key\_host <dst\_host> } | {
dst\_key\_addrgrp <dst\_addrgrp\_name> } } } { [ [ fragments ] | [ log ] [ telemetry\_queue ] [ telemetry\_path
] [ time-range <time\_range\_name> ] | packet-length { <plen\_op> <plen0> | <plen\_range> <plen1>
<plen2> } | { dscp { <dscp\_num> [ <dscp\_mask> ] | <dscp\_str> } } | { ttl <ttl\_num> } ] ] + | [ [
fragments ] | [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range <time\_range\_name> ] |
packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } | { tos { <tos\_num> | <tos\_str>
} } | { precedence { <prec\_num> | <prec\_str> } } | { ttl <ttl\_num> } ] ] + } } } } [ vlan <vlanid> |
ingress\_intf { <intfid> | <intfname> } | vlan\_priority <vlanpriorityid> ] + [ capture session <session-id>
] { [ <action> <actionid> ] } + [ log ] }

- OLD: { [ <seqno> ] | no } <permitdeny> { { { { ethertype <ethertypeid> } | { { ip | <proto> |
<ip\_other\_proto> } } { <src\_any> | { <src\_addr> <src\_wild> } | <src\_prefix> | { src\_key\_host <src\_host>
} | { src\_key\_addrgrp <src\_addrgrp\_name> } } } { <dst\_any> | { <dst\_addr> <dst\_wild> } | <dst\_prefix>
| { dst\_key\_host <dst\_host> } | { dst\_key\_addrgrp <dst\_addrgrp\_name> } } } } { [ [ fragments ] | [ log ]
[ time-range <time\_range\_name> ] | packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2>
} | { dscp { <dscp\_num> | <dscp\_str> } } | { ttl <ttl\_num> } | { udf { <udf\_name> <udf\_val> <udf\_mask>
} + } ] ] + | [ [ fragments ] | [ log ] [ time-range <time\_range\_name> ] | packet-length { <plen\_op>
<plen0> | <plen\_range> <plen1> <plen2> } | { tos { <tos\_num> | <tos\_str> } } | { precedence {
<prec\_num> | <prec\_str> } } | { ttl <ttl\_num> } | { udf { <udf\_name> <udf\_val> <udf\_mask> } + } ] }

- + } [ capture session <session-id> ] } } [ vlan <vlanid> | ingress\_intf { <intfid> | <intfname> } | vlan\_priority <vlanpriorityid> ] + [ { udf { <udf\_name> <udf\_val> <udf\_mask> } + } ] | { udf { <udf\_name> <udf\_val> <udf\_mask> } + } } { [ <action> <actionid> ] } + [ log ]
- NEW: { [ <seqno> ] | no } <permitdeny> { { { ethertype <ethertypeid> } | { ip | <proto> | <ip\_other\_proto> } { <src\_any> | { <src\_addr> <src\_wild> } | <src\_prefix> | { src\_key\_host <src\_host> } | { src\_key\_addrgrp <src\_addrgrp\_name> } } } { <dst\_any> | { <dst\_addr> <dst\_wild> } | <dst\_prefix> | { dst\_key\_host <dst\_host> } | { dst\_key\_addrgrp <dst\_addrgrp\_name> } } } { [ [ fragments ] | [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range <time\_range\_name> ] ] packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } | { dscp { <dscp\_num> [ <dscp\_mask> ] | <dscp\_str> } } | { ttl <ttl\_num> } | { udf { <udf\_name> <udf\_val> <udf\_mask> } + } } } + [ [ [ fragments ] | [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range <time\_range\_name> ] ] packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } | { tos { <tos\_num> | <tos\_str> } } } | { precedence { <prec\_num> | <prec\_str> } } | { ttl <ttl\_num> } | { udf { <udf\_name> <udf\_val> <udf\_mask> } + } } } + } [ capture session <session-id> ] } } [ vlan <vlanid> | ingress\_intf { <intfid> | <intfname> } | vlan\_priority <vlanpriorityid> ] + [ { udf { <udf\_name> <udf\_val> <udf\_mask> } + } ] | { udf { <udf\_name> <udf\_val> <udf\_mask> } + } } { [ <action> <actionid> ] } + [ log ] | { [ <action> <actionid> ] } } + [ telemetry\_queue ] | { [ <action> <actionid> ] } + [ telemetry\_path ] }
  - OLD: [ no ] { platform | hardware } qos nodrop-queue-thresholds Queue-yellow <q-yellow> Queue-green <q-green>
  - NEW: [ no ] { platform | hardware } qos nodrop-queue-thresholds Queue-yellow <q-yellow> Queue-green <q-green>
  - OLD: [ no ] { platform | hardware } qos nodrop-queue-thresholds-FX Queue-green <q-green>
  - NEW: [ no ] { platform | hardware } qos nodrop-queue-thresholds-FX Queue-green <q-green>
  - OLD: [ 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> ] ] ] }
  - NEW: [ 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> ] ] ] }
  - OLD: [ no ] route { vrf { <vrf-name> | <vrf-known-name> } } { <ip-addr> <ip-mask> | <ip-prefix> } { <next-hop> } [ next-hop-vrf { <nh-vrf-name> | <nh-vrf-known-name> | default } ] { vni <id> { dest-vtep-mac <next-hop-mac> } }
  - NEW: [ no ] route { vrf { <vrf-name> | <vrf-known-name> } } { <ip-addr> <ip-mask> | <ip-prefix> | <ipv6-prefix> } { <next-hop> [ next-hop-vrf { <nh-vrf-name> | <nh-vrf-known-name> | default } ] { vni <id> { dest-vtep-mac <next-hop-mac> } } | remote-locator <remote-loc> function <function> [ via policy { name <te-policy> | color <color> endpoint <end-point> } ] | via policy { name <te-policy> | color <color> endpoint <end-point> } [ remote-locator <remote-loc> function <function> ] }
  - OLD: [ 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 } <sdays> <syead> { 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> <eyead> }

- NEW: [ no ] send-lifetime [ local ] <stime> { smonth\_a | smonth\_b | smonth\_c | smonth\_d | smonth\_e | smonth\_f | smonth\_g | smonth\_h | smonth\_i | smonth\_j | smonth\_k | smonth\_l } <sday> <year> { duration <dsec> | infinite | <etime> { emonth\_a | emonth\_b | emonth\_c | emonth\_d | emonth\_e | emonth\_f | emonth\_g | emonth\_h | emonth\_i | emonth\_j | emonth\_k | emonth\_l } <eday> <eyear> }
- OLD: [ no ] set ip next-hop verify-availability { <addr> [ track <object\_id> ] } [ load-share ]
- NEW: [ no ] set ip next-hop verify-availability { [ <addr1> [ track <object\_id> ] ] } { [ drop-on-fail ] [ load-share ] [ force-order ] } | { [ drop-on-fail ] [ force-order ] [ load-share ] } | { [ load-share ] [ drop-on-fail ] [ force-order ] } | { [ load-share ] [ force-order ] [ drop-on-fail ] } | { [ force-order ] [ drop-on-fail ] [ load-share ] } | { [ force-order ] [ load-share ] [ drop-on-fail ] } }
- OLD: [ no ] set ipv6 next-hop verify-availability { <addr> [ track <object\_id> ] } [ load-share ]
- NEW: [ no ] set ipv6 next-hop verify-availability { [ <addr1> [ track <object\_id> ] ] } { [ drop-on-fail ] [ load-share ] [ force-order ] } | { [ drop-on-fail ] [ force-order ] [ load-share ] } | { [ load-share ] [ drop-on-fail ] [ force-order ] } | { [ load-share ] [ force-order ] [ drop-on-fail ] } | { [ force-order ] [ drop-on-fail ] [ load-share ] } | { [ force-order ] [ load-share ] [ drop-on-fail ] } }
- OLD: snsr-grp <sn-grp-id> sample-interval <cadence> | no snsr-grp <sn-grp-id>
- NEW: snsr-grp <sn-grp-id> sample-interval { 0 | <cadence> } | no snsr-grp <sn-grp-id>
- OLD: source-ip { <src-ip> } | no source-ip [ <src-ip> ]
- NEW: source-ip { <src-ip> | <src-ipv6> } | no source-ip [ <src-ip> | <src-ipv6> ]
- OLD: [ no ] system default zone { default-zone permit | distribute full | gs { read | read-write } | mode enhanced }
- NEW: [ no ] system default zone { default-zone permit | distribute full | gs { read | read-write } | mode enhanced | smart-zone enable }
- OLD: [ no ] system { { routing { hierarchical def-max-mode l3 64b-alm | non-hierarchical [ max-mode l3-nh [ 64b-alm-nh ] ] | max-mode host | max-mode-tor { l2 | l3 | l2-l3 } | template-overlay-host-scale | template-lpm-heavy | template-l2-heavy | template-lpm-scale-v6-64 | template-dual-stack-host-scale | template-service-provider | template-dual-stack-mcast | template-multicast-heavy | template-multicast-ext-heavy | template-vxlan-scale | template-mpls-heavy | template-internet-peering | template-multicast-nbm | template-l3-heavy | template-l3-heavy-inband-telemetry-transit | template-inband-telemetry-transit } } | { non-hierarchical-routing [ max-l3-mode ] } }
- NEW: [ no ] system { { routing { hierarchical def-max-mode l3 64b-alm | non-hierarchical [ max-mode l3-nh [ 64b-alm-nh ] ] | max-mode host | max-mode-tor { l2 | l3 | l2-l3 } | template-overlay-host-scale | template-lpm-heavy | template-l2-heavy | template-lpm-scale-v6-64 | template-dual-stack-host-scale | template-service-provider | template-dual-stack-mcast | template-multicast-heavy | template-multicast-ext-heavy | template-vxlan-scale | template-mpls-heavy | template-internet-peering | template-multicast-nbm | template-l3-heavy | template-l3-heavy-inband-telemetry-transit | template-inband-telemetry-transit | template-l2-scale } } | { non-hierarchical-routing [ max-l3-mode ] } }

## Deprecated Commands

The following commands are removed in this release.

- [ no ] access vlan <vlan>
- [ no ] access-list <acl-name>
- [ no ] <sequence-no> Access-list <acl-name> { vlan-group <vg-name> | ingress-port-group <ipg-name> } { { egress-port-group <epg-name> [ load-balance { port-channel | algo-based { src-ip | dst-ip } } ] [ reverse-policy | { reverse-port-group <rev-epg-name> [ reverse-port-channel ] } ] } | { egress-device-group <edg-name> [ load-balance { ecmp | algo-based { src-ip | dst-ip } } ] [ reverse-device-group <rev-edg-name> ] } } { [ mode <mode> ] | [ span ] }
- [ no ] affinity <hex\_value> [ mask <mask\_value> ]
- [ no ] affinity <value> [ mask <mask-value> ]
- append-after <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> }
- [ no ] authentication [ neighbor <nbr> ] challenge
- [ no ] authentication [ neighbor <nbr> ] key-chain <key-chain-name>
- [ no ] authentication [ neighbor <nbr> ] lifetime <time>
- [ no ] authentication [ neighbor <nbr> ] type { md5 | sha-1 }
- [ no ] authentication [ neighbor <nbr> ] window-size <value>
- [ no ] auto-bw timers { frequency <sec> }
- [ no ] auto-bw [ { [ collect-bw | frequency <sec> ] + } | { [ frequency <sec> | min-bw <min-kbps> | max-bw <max-kbps> ] + } ]
- [ no ] autoroute announce
- [ no ] autoroute metric { <value> | relative <rel-value> }
- [ no ] backup-bw { <kbps> }
- [ no ] bandwidth { <bw> }
- [ no ] bandwidth { <kbps> }
- [ no ] cbts-member tunnel-te <tunnel-num>
- [ no ] chain <chain-id>
- clear ip rsvp authentication [ <nbr-addr> ]
- clear ip rsvp counters [ teardown | authentication | all ]
- clear ip rsvp hello instance counters
- clear ip rsvp reservation { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ] [ src-port <sport> ] | <all> }
- clear ip rsvp sender { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ] [ src-port <sport> ] | <all> }

- clear ip rsvp signalling [ rate-limit | refresh-reduction ]
- clear mpls traffic-eng auto-bw timers
- clear mpls traffic-eng link-management counters
- clear mpls traffic-eng tunnel counters
- clear plb analytics <service-name>
- [ no ] control vlan <vlan-id>
- dchal [ <cmd> ]< event-history port\_client category all
- [ no ] destination <ipaddr>
- [ no ] destination filter ip any any
- [ no ] destination filter ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port\_num> | any } } ] [ { arp | advertise } { enable | disable } ]
- [ no ] destination1 interface <interface\_range>
- [ no ] device-group <group-name>
- [ no ] erspan-ip <ip-addr>
- event-history port\_client category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
- event-history port\_client category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
- event-history port\_client no category all
- event-history port\_client no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
- event-history port\_client no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
- exclude-address <ipaddr>
- [ no ] exp { default | <val> [ <val> [ <val> [ <val> [ <val> [ <val> [ <val> [ <val> ] ] ] ] ] ] ] ] [ default ] }
- [ no ] explicit-path { identifier <id> | name <string> }
- [ no ] failaction { node { reassign | drop } | cluster drop } +
- [ no ] fast-reroute [ node-protect | bw-protect ] +
- [ no ] fast-reroute backup-prot-preempt optimize-bw | no fast-reroute timers promotion | fast-reroute timers promotion <seconds>
- [ no ] feature plb
- [ no ] forwarding-adjacency [ holdtime <msec> ]
- [ no ] index <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> }
- no interface down delay |
- [ no ] [ <seqnum> ] <permitdeny> { ip { <src\_addr> <src\_wild> | <src\_prefix> | <src\_any> | host <src\_hostaddr> } { <dst\_addr> <dst\_wild> | <dst\_prefix> | <dst\_any> | host <dst\_hostaddr> } [ udf



<udf\_name> <udf\_val> <udf\_mask> ]} } | { [ <seqnum> ] <permitdeny> udf <udf\_name1> <udf\_val1> <udf\_mask1>

- ip routing multicast trace entries <num-entries>
- ip routing multicast trace records <num-rec>
- [ no ] ip rsvp
- [ no ] ip rsvp authentication challenge
- [ no ] ip rsvp authentication key-chain <key-chain-name>
- [ no ] ip rsvp authentication lifetime <time>
- [ no ] ip rsvp authentication type { md5 | sha-1 }
- [ no ] ip rsvp authentication window-size <value>
- [ no ] ip rsvp signalling dscp <value>
- [ no ] ip rsvp signalling hello dscp <value>
- [ no ] ip rsvp signalling hello reroute [ override-graceful ]
- [ no ] ip rsvp signalling hello reroute state-timeout refresh interval <value>
- [ no ] ip rsvp signalling hello reroute state-timeout refresh misses <value>
- [ no ] ip udp relay addrgroup <obj-grp-name>
- [ no ] link rxlos [ algo <algo\_val> ]
- [ no ] link-management timers { bandwidth-hold <bw\_seconds> | periodic-flooding <flood\_seconds> }
- list
- list [ <index> ]
- [ no ] lockdown
- [ no ] logging { lsp { path-errors | preemption | reservation-errors | setups | teardowns } | tunnel { lsp-selection | path change } }
- [ no ] logging level dot1x <i0>
- [ no ] logging level fs-daemon <i0>
- [ no ] logging level mpls traffic-eng <i0>
- [ no ] logging level plbm <i0>
- [ no ] logging level port\_client <i0>
- [ no ] logging level rsvp <i0>
- [ no ] logging level smartc <i0>
- [ no ] logging level tamnw <i0>
- [ no ] logging level tunenc\_mgr <i0>
- [ no ] lsp attributes <name>

- [ no ] mpls traffic-eng administrative-weight <num> | no mpls traffic-eng administrative-weight
- [ no ] mpls traffic-eng attribute-flags <value> | no mpls traffic-eng attribute-flags
- [ no ] mpls traffic-eng backup-path <tunnel-num>
- [ no ] mpls traffic-eng bandwidth [ percent <percentage> | <bw-kbps> ]
- mpls traffic-eng configuration
- [ no ] mpls traffic-eng fast-reroute promote
- [ no ] mpls traffic-eng flooding thresholds { up <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> [ <up\_p> ] ] ] ] ] ] ] ] ] ] ] | down <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> [ <dn\_p> ] ] ] ] ] ] ] ] ] ] ] }
- [ no ] mpls traffic-eng reoptimize [ <tunnel-num> ]
- [ no ] mpls traffic-eng tunnels
- next-address [ loose | strict ] <ipaddr>
- [ no ] node [ ip <ip-addr> | IPv6 <ip-addrv6> ]
- [ no ] object-group udp relay ip address <obj-grp-name>
- [ no ] 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 } + } ]
- [ no ] path-selection metric { igp | te }
- [ no ] path-selection overload allow { head [ middle ] [ tail ] | middle [ tail ] | tail }
- [ no ] peer <svc-name> vpc <num>
- [ no ] peer ip <ip-addr>
- [ no ] plb [ <svc-name> ] [ service <service-name> ]
- [ no ] plb analytics <service-name>
- [ no ] plb device-group <group-name>
- [ no ] plb session device-group <group-name>
- [ no ] priority <setup\_prio> [ <hold\_prio> ]
- [ no ] probe <probe-id-dns> host <host-name> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] +
- [ no ] probe <probe-id-http> get [ <url-name> | cache | frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] +
- [ no ] probe <probe-id-icmp> [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] +
- [ no ] probe <probe-id> port <port-num> [ control <status> ] [ frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | source-interface <interface> | ip <ip-addr> ] +

- [ no ] protection [ fast-reroute [ bw-protect ] ]
- [ no ] port control <port-control-name>
- [ no ] record-route
- reload
- [ no ] reoptimize events link-up | no reoptimize timers { delay { cleanup | installation } | frequency } | reoptimize timers { delay { cleanup <clean\_sec> | installation <inst\_sec> } | frequency <freq\_sec> }
- restart rsvp
- [ no ] revocation-check { crl [ none ] | none }
- [ no ] set evpn gateway-ip { <addr> }
- [ no ] signalling advertise explicit-null [ <acl> ]
- [ no ] signalling client batch-time <msec>
- [ no ] signalling hello graceful-restart
- [ no ] signalling hello graceful-restart refresh interval <value>
- [ no ] signalling hello graceful-restart refresh misses <value>
- [ no ] signalling hello graceful-restart send recovery-time <value>
- [ no ] signalling hello graceful-restart send restart-time <value>
- [ no ] signalling hello reroute
- [ no ] signalling initial-retransmit-delay <msec>
- [ no ] signalling patherr state-removal
- [ no ] signalling rate-limit { [ interval <msec> ] [ limit <messages> ] } | { [ limit <messages> ] [ interval <msec> ] }
- [ no ] signalling refresh interval <seconds>
- [ no ] signalling refresh misses <value>
- [ no ] signalling refresh pace
- [ no ] signalling refresh reduction
- [ no ] signalling refresh reduction ack-delay <msec>
- [ no ] signalling refresh reduction bundle-max-size <value>
- [ no ] signalling refresh reduction bundle-transmit-time <msec>
- [ no ] signalling refresh reduction rapid-retransmit
- [ no ] smart-channel <service-name>
- [ no ] smart-channel port-group <svc-name>
- [ no ] source { <ipaddr> }
- [ no ] source filter ip any any

- [ no ] source filter ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port\_num> | any } } ] [ { arp | advertise } { enable | disable } ]
- [ no ] standby { ip <ip-addr-first> | IPv6 <ip-addrv6-first> }
- [ no ] stateful-ha [ pss-partial-lsp ]
- [ no ] system dme enable
- [ no ] topology holddown sigerr <sec>
- tunnel-type <tunneltype>
- [ no ] virtual IPv6 { <ip-addr> { <prefix> | <netmask> } } [ ip | { { udp | tcp } { <port\_num> | any } } ] [ { arp | advertise } { enable | disable } ] [ device-group <group-name> ]
- [ no ] virtual ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port\_num> | any } } ] [ { arp | advertise } { enable | disable } ] [ device-group <group-name> ]
- [ no ] vlan <vlan-range>
- [ no ] vmtracker connection <connection-name> refresh
- [ no ] vrf [ <name> ]
- [ no ] weight <weight-value>