



## **New, Changed, and Deprecated Commands in Cisco Nexus 9000 Releases 9.3(6) to 9.3(9)**

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# New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 9.3(6) to 9.3(9)

The following sections describe changes in the Cisco Nexus 9000 CLI since Release 9.3(5).

## New Commands

The following configuration commands are added.

- [ no ] area <area-id-ip> authentication { disable | ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } } }
- [ no ] authentication { disable | ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } } }
- [ no ] authentication { ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } } }
- clear aaa user blocked { username <s0> | all }
- clear ip igmp snooping mac-oifs { <mac-address> | <all> } { [ interface <if-name> ] { vlan { <vlan> | all } | bridge-domain { <bdid> | all } } }
- [ no ] df-election time <sec>
- [ no ] extension-header <hdr\_op\_type>
- [ no ] hardware access-list tcam label egr-l2-qos 6
- [ no ] hardware access-list tcam label ing-ifacl 6
- [ no ] hardware N2332TQ cut-through-min-threshold <val>
- [ no ] hardware N2348TQ cut-through-min-threshold <val>
- [ no ] hardware N2348TQ-E cut-through-min-threshold <val>
- [ no ] hardware N2348UPQ cut-through-min-threshold <val>
- [ no ] hardware profile buffer info syslog-interval timer <sec>
- [ no ] hardware profile multicast nlb Port-channel
- [ no ] hardware profile sub-interface flex-stats
- [ no ] ip pim spt-switch-graceful
- license dcnm-lan { enable | disable }
- license dcnm-san { enable | disable }
- [ no ] link max-bringup timer <max\_bringup\_timer\_val\_max>
- [ no ] link-sync group <group\_id>
- [ no ] logging secure oesp strict
- [ no ] ospfv3 authentication { disable | ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } } }
- [ no ] prefix-priority high

- [ no ] ptp forward-version 1
- [ no ] service exclude-bootconfig
- [ no ] snmp-server local use-vrf <vrf\_name>
- [ no ] split-horizon per-site
- [ no ] tunnel-encryption icv

### Changed Commands

The following configuration commands are modified.

- OLD: [ no | default ] bfd
- NEW: [ no | default ] bfd [ multihop | singlehop ]
- OLD: clear ip igmp interface statistics [ <interface> ]
- NEW: clear ip igmp interface statistics [ vrf { <vrf-name> | <vrf-known-name> | all } | <interface> ]
- OLD: { { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { <neighbor-id> | \* | <asn> | <prefix-id> peer-template <peer-template-name> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { <neighbor-id> | \* | <asn> | <prefix-id> | peer-template <peer-template-name> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] { ipv4 { unicast | multicast } | { vpnv4 | vpnv6 } unicast | all } { soft [ in | out ] | dampened-paths | flap-statistics | no-notify } } ] | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { ipv4 { unicast | multicast | mvpn | labeled-unicast } | ipv6 { unicast | multicast | mvpn | labeled-unicast } | { vpnv4 | vpnv6 } unicast | l2vpn vpls | l2vpn evpn | link-state | all } { <neighbor-id> | <ipv6-neighbor-id> | \* | <asn> | peer-template <peer-template-name> | <prefix-id> | <ipv6-prefix-id> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] } } [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] }
- NEW: { { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { <neighbor-id> | \* | <asn> | <prefix-id> peer-template <peer-template-name> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { <neighbor-id> | \* | <asn> | <prefix-id> | <neighbor-interface> | peer-template <peer-template-name> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] { ipv4 { unicast | multicast } | { vpnv4 | vpnv6 } unicast | all } { soft [ in | out ] | dampened-paths | flap-statistics | no-notify } } ] | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] { ipv4 { unicast | multicast | mvpn | labeled-unicast } | ipv6 { unicast | multicast | mvpn | labeled-unicast } | { vpnv4 | vpnv6 } unicast | l2vpn vpls | l2vpn evpn | link-state | all } { <neighbor-id> | <ipv6-neighbor-id> | \* | <asn> | peer-template <peer-template-name> | <neighbor-interface> | <prefix-id> | <ipv6-prefix-id> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] } } [ vrf { <vrf-name> | <vrf-known-name> | ALL\_VRFS\_012345678901234 } ] }
- OLD: clear ipv6 mld interface statistics [ <interface> ]
- NEW: clear ipv6 mld interface statistics [ vrf { <vrf-name> | <vrf-known-name> | all } | <interface> ]
- OLD: configure replace { <uri\_local> | <uri\_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } [ [ [ verbose ] [ debug | stop-at-first-failure | best-effort ] [ commit-timeout <time> ] [ non-interactive ] [ verify-and-commit ] ] | [ show-patch | verify-only ] ]

- NEW: configure replace { <uri\_local> | <uri\_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } [ [ verbose ] [ debug | stop-at-first-failure | best-effort ] [ commit-timeout <time> ] [ non-interactive ] [ verify-and-commit ] ] + [ show-patch | verify-only ] [ [ verbose ] [ on-failure reload [ save-startup-cfg ] ] [ commit-timeout <time> ] [ non-interactive ] [ verify-and-commit ] ] + ]
- OLD: install activate <patch> + [ forced ]
- NEW: install activate <patch> + [ no-immediate-reload ] [ forced ]
- OLD: install add { <package-name> | <uri1> } [ vrf <vrf-known-name> ] [ { gpg-key | [ activate [ upgrade | downgrade ] ] [ forced ] } ]
- NEW: install add { <package-name> | <uri1> } [ vrf <vrf-known-name> ] [ { gpg-key | [ activate [ upgrade | downgrade | no-immediate-reload ] ] [ forced ] } ]
- OLD: install deactivate <patch> + [ forced ]
- NEW: install deactivate <patch> + [ no-immediate-reload ] [ forced ]
- OLD: install { all [ nxos <uri> | kickstart <uri1> | system <uri3> | package <uri4> | serial | ignore-script-errors ] + [ force ] [ non-disruptive | no-reload | noswitchover ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] [ compact ] [ override ] | force-all [ nxos <uri> | serial | ignore-script-errors ] + [ non-disruptive ] [ force ] }
- NEW: install { all [ nxos <uri> | kickstart <uri1> | system <uri3> | package <uri4> | epld <uri5> | serial | ignore-script-errors ] + [ force ] [ non-disruptive | no-reload | noswitchover ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] [ compact ] [ override ] | force-all [ nxos <uri> | serial | ignore-script-errors ] + [ non-disruptive ] [ force ] }
- OLD: { username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ role <s6> ] } | { username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] [ expire <s5> [ past ] ] } | { username <s0> [ expire <s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] } | { username <s0> [ role <s6> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ role <s6> ] [ expire <s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s7> [ role <s8> ] }
- NEW: { username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ role <s6> ] } | { username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] [ expire <s5> [ past ] ] } | { username <s0> [ expire <s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] } | { username <s0> [ role <s6> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ role <s6> ] [ expire <s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s7> [ role <s8> ] [ force ] }
- 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\_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>

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} | <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> } ] }

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- 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\_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\_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\_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 ] [ 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 ] }
  - 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

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<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_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_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_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 ] }

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- 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\_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> ] }
- 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\_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\_mask> ] | <dscp\_str> } } ] [ { flow-label <flow\_num> } ] [ fragments ] [ log ] [ telemetry\_queue ] [ telemetry\_path ] [ time-range

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<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\_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> } ] }
- 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\_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\_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\_mask> ] | <dscp\_str> } } } ] [ { flow-label <flow\_num> } ] [ log ] [ telemetry\_queue ]

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

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- NEW: { [ <seqno> ] | no } <permitdeny> <proto\_udp> { { { <src\_any> | { <src\_addr> <src\_wild> } |
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} } { <src\_port2> | <src\_port2\_str> } } | src\_portgroup <src\_port\_group> } } ] { <dst\_any> | { <dst\_addr>
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} } [ { { <dst\_port\_op> { <dst\_port0> | <dst\_port0\_str> } } | { <dst\_port\_range> { <dst\_port1> |
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[ 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> } |
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<dscp\_num> [ <dscp-mask> ] <dscp\_mask> ] | <dscp\_str> } } ] [ { flow-label <flow\_num> } ] [ fragments
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} + } ] ] + } ] [ nve vni <vni-id> ] [ vlan <vlanid> | ingress\_intf { <intfid> | <intfname> } | vlan\_priority
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- OLD: { [ <seqno> ] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto\_tcp> { { { <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> } } | {
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telemetry\_path ] [ time-range <time\_range\_name> ] ] packet-length { <plen\_op> <plen0> | <plen\_range>
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| <opt\_str> } } | { tcp-option-length <tcp\_opt\_len> } | { tcp-flags-mask <tcp\_flags\_mask> } | { ttl
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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> |
<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>





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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
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] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> [
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] [ 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
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<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
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] [ telemetry_path ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> |
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<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
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] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> [
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] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
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../feature/acl_mgr/cli/aclmgr.cmd [ capture session <session-id> ] { [ <action> <actionid> ] } + [ log ]

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- NEW: { [ <seqno> ] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto\_udp> { { { <src\_any>
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<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
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] | packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } } | { dscp { <dscp\_num> [ [
dscp-mask ] <dscp\_mask> ] | <dscp\_str> } } } | { ttl <ttl\_num> } } ] + { [ [ log ] [ telemetry\_queue ] [
telemetry\_path ] [ time-range <time\_range\_name> ] | packet-length { <plen\_op> <plen0> | <plen\_range>
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{ 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
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] [ telemetry\_path ] [ time-range <time\_range\_name> ] | packet-length { <plen\_op> <plen0> |
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} } } | { 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>
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+ } } } [ nve vni <vni-id> ] } } } [ vlan <vlanid> | ingress\_intf { <intfid> | <intfname> } | vlan\_priority
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] | packet-length { <plen\_op> <plen0> | <plen\_range> <plen1> <plen2> } } | { dscp { <dscp\_num> [ [

```
dscp-mask ] <dscp_mask> ] | <dscp_str> } } | { ttl <ttl_num> } } } + | { [ [ log ] [ telemetry_queue ] [
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{ ttl <ttl_num> } } } + } [ { udf { <udf_name> <udf_val> <udf_mask> } + } ] # 2358
../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\_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> } + } }
- 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> ] } [ log ] | { 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 ] [ 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> } } ] } + } } } } [ 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\_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\_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\_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 ] [ 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 ] }
- 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\_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 ] radius-server host <hostipname> { { key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } [ pac ] { [ auth-port <i0> ] | [ acct-port <i1> ] } } } | { [ auth-port1 <i2> ] | [ acct-port1 <i3> ] } } } [ { authentication [ accounting [ timeout <i4> ] [ retransmit <i5> ] ] } | [ accounting1 [ timeout1 <i6> ] [ retransmit1 <i7> ] ] } } | { no radius-server host <hostipname> key } }
- 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> ] ] } } | { no radius-server host <hostipname> key } }
- OLD: [ no ] rfc1583compatibility
- NEW: [ no ] rfc1583compatibility [ ios-compatibility ]
- OLD: [ no ] snmp-server user <s0> { enforcePriv | { [ <s1> ] } { [ auth { md5 | sha } <s2> { { priv [ aes-128 ] { <s3> [ localizedkey ] [ { auto | engineID <s4> } ] } } | [ localizedkey1 ] [ { auto1 | engineID1 <s5> } ] } } } } }
- NEW: [ no ] snmp-server user <s0> { enforcePriv | { [ <s1> ] } { [ auth { md5 | sha | sha-256 } <s2> { { priv [ aes-128 ] { <s3> [ { localizedkey | localizedV2key } ] [ { auto | engineID <s4> } ] } } | [ { localizedkey1 | localizedV2key1 } ] [ { auto1 | engineID1 <s5> } ] } } } } }

## Deprecated Commands

The following configuration commands are removed.

- [ no ] area <area-id-ip> authentication { disable | ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } }
- [ no ] authentication { disable | ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } }
- [ no ] authentication { ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } }
- [ no ] ip dhcp relay subnet-broadcast
- [ no ] limit-resource vni\_bd minimum <min-val> maximum { <max-val> | equal-to-min }
- [ no ] mac-address-mtc <mac\_address\_val>
- [ no ] mac-address-mtc ipv6-extract-mtc
- [ no ] ospfv3 authentication { disable | ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } }

