New, Changed, and Deprecated Configuration Commands

New, Changed, and Deprecated Commands in Cisco NX-OS Release 10.4(2) and 10.4(3)

New Commands

The following commands are added in these releases.

- [no] accept-ao-mismatch

- [no] app-vnic host

- [no] crypto qkd profile <name>

- [no] db-size <flowcount>

- [no] dialin-stream

- [no] epbr service-chain <service-chain-name>

- [no] fabric-advertise-pip l3

- [no] feature cryptopqc

- [no] feature tpmon

- [no] flow traffic-analytics

- [no] hardware npu-power-profile card-type fc <profile>

- [no] hardware npu-power-profile card-type lc <profile> module <module>

- [no] hardware profile dlb dre-thresholds [level-1 <percentage_1>] [level-2 <percentage_2>] [level-3 <percentage_3>] [level-4 <percentage_4>] [level-5 <percentage_5>] [level-6 <percentage_6>] [level-7 <percentage_7>]

- [no] hardware profile dlb flowlet-ageing-time <usec>

- [no] hardware profile dlb interface-list <interface_range>

- [no] hardware profile dlb mac-address <macaddr>

- [no] include-tcp-options

- [no] ip pim event-history rpm { size { <size_in_text> | <size_in_kbytes> } }

- [no] ip pim register-packing

- [no] ipv6 pim event-history rpm { size { <size_in_text> | <size_in_kbytes> } }

- [no] key chain <keychain> tcp

- [no] kme server <hostipname> { [port <port-num>] }

- [no] l2rib event-history { client-tbl | ead-pl | errors | mac | mac-ip | imet | fl | dme-oper | misc-obj | rmac | topology | topo-child-attr | tx-infra | server | loop-detection | dtx | fhs } size { default | medium | high | very-high }

- [no] l3 ethernet port <port-range>

- [no] l3 port-channel port <port-range>

- [no] load-balance method <lb-method>

- [no] logging level tpmon <i0>

- [no] match connected-endpoints vrf { <vrf-name> | <vrf-known-name> } ipv4 <pfx>

- [no] match connected-endpoints vrf { <vrf-name> | <vrf-known-name> } ipv6 <pfx>

- [no] match external-subnets vrf { <vrf-name> | <vrf-known-name> } ipv4 <pfx>

- [no] match external-subnets vrf { <vrf-name> | <vrf-known-name> } ipv6 <pfx>

- [no] match interface <iface>

- [no] match vlan <vlan-range>

- [no] maximum-paths unequal-cost

- [no] mode hot-standby

- [no] multisite virtual-rmac <mac> | no multisite virtual-rmac

- [no] nve event-history { <buffer-name> } size { <size_in_text> | <size_in_bytes> }

- [no] ols line egress-ampli-safety-control-mode <safety_mode>

- [no] ols { com egress-ampli-gain <com_gain> | line egress-ampli-gain <line_gain> }

- [no] ols { com egress-ampli-power <com_power> | line egress-ampli-power <line_power> }

- [no] ols { com | line } ampli-control-mode <mode>

- [no] ols { com | line } egress-ampli-osri <osri_mode>

- [no] ols { com | line } rx-low-threshold <rx_low>

- [no] ols { com | line } tx-low-threshold <tx_low>

- [no] ppk crypto-qkd-profile <policy_crypto_name>

- [no] ptp system-clock ptp

- [no] security-group <grp-id> [reverse <rev-grp-id>]

- [no] system default link-fail laser-on

- [no] threshold high <highPercent> low <lowPercent>

- [no] traffic-analytics

- [no] transceiver performance-monitoring

- [no] transceiver performance-monitoring <bucket_interval> fec { report { prefecBER { max-tca | min-tca } | postfecBER { max-tca | min-tca } | quality { max-tca | min-tca } | quality-margin { max-tca | min-tca } | ec-bits { max-tca | min-tca } | uc-words { max-tca | min-tca } } | threshold { prefecBER { max <pre_fec_ber_max> | min <pre_fec_ber_min> } | postfecBER { max <post_fec_ber_max> | min <post_fec_ber_min> } | quality { max <quality_max> | min <quality_min> } | quality-margin { max

<quality_margin_max> | min <quality_margin_min> } | ec-bits { max <ec_bits_max> | min <ec_bits_min> } | uc-words { max <uc_words_max> | min <uc_words_min> } } }

- [no] transceiver performance-monitoring <bucket_interval> optics { report { cd { max-tca | min-tca } | dgd { max-tca | min-tca } | opr { max-tca | min-tca } | opt { max-tca | min-tca } | osnr { max-tca | min-tca } | rx-sig-pow { max-tca | min-tca } | snr { max-tca | min-tca } | lbc { max-tca | min-tca } | freq-off { max-tca | min-tca } | pcr { max-tca | min-tca } | pdl { max-tca | min-tca } | sopmd { max-tca | min-tca } } | threshold { cd { max <cd_max> | min <cd_min> } | dgd { max <dgd_max> | min <dgd_min> } | opr { max <opr_max> | min <opr_min> } | opt { max <opt_max> | min <opt_min> } | osnr { max <osnr_max> | min <osnr_min> } | rx-sig-pow { max <rx_sig_max> | min <rx_sig_min> } | snr { max <snr_max> | min <snr_min> } | lbc { max <lbc_max> | min <lbc_min> } | freq-off { max <freq_off_max> | min <freq_off_min> } | pcr { max <pcr_max> | min <pcr_min> } | pdl { max <pdl_max> | min <pdl_min> } | sopmd { max <sopmd_max> | min <sopmd_min> } } }

- [no] transport tls authentication-type trustpoint <trustpoint> [ignore-certificate]

- [no] type layer4-7

- [no] { { { action <route-action> } | { reverse-action <rev-route-action> } } + }

- [no | default] aigp

- [no | default] dmz-link-bandwidth

- [no | default] link-bandwidth cumulative

- [no | mac-learn vlan <id>

- ao <keychain-name> [include-tcp-options] [accept-ao-mismatch-connections] | { no | default } ao [<keychain-name>]

- clear filter <seqno> stats

- clear system tech-support blocked-commands

- fabric-ready time <sec> | no fabric-ready time [<sec>]

- hardware profile counter-manager feature <feature_name> counter-scale <counter_scale> | no hardware profile counter-manager feature <feature_name>

- logging level cryptopqc <i0> | no logging level cryptopqc [<i0>]

- ptp ipv6 multicast scope rx <r0> | [no] ptp ipv6 multicast scope rx

- ptp ipv6 multicast scope tx <t0> | [no] ptp ipv6 multicast scope tx

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

- security-group <esg-id> name <esg-name> | no security-group <esg-id>

- set filter <seqno> ip { src-ip <src-ip> dst-ip <dst-ip> [protocol <prot> [l4-src-port { any | <l4-src-port> } l4-dst-port { any | <l4-dst-port> }]] } +

- set filter <seqno> ipv6 { src-ipv6 <src-ipv6> dst-ipv6 <dst-ipv6> [protocol <prot> [l4-src-port { any | <l4-src-port> } l4-dst-port { any | <l4-dst-port> }]] } +

- snmp-server contact <line> | no snmp-server contact [<line>]

- start filter <seqno>

- stop filter <seqno>

- system flash sda resize [standard | extended] [force]

- system tech-support blocked-commands <s0>

- { cryptographic-algorithm <algo> } | { no cryptographic-algorithm [<algo>] }

- { hardware profile dme load-interval <load_interval> } | { no hardware profile dme load-interval }

- { ip arp cache intf-limit <limit> } | { no ip arp cache intf-limit }

- { ip pim pfm-sd range { <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> } } | { no ip pim pfm-sd range [<prefix> | route-map <route-map-name> | prefix-list <prefix-list-name>] }

- { priority level <level> | no priority level <level> }

- { recv-id <recvid> | no recv-id }

- { send-id <sendid> | no send-id }

- { set aigp-metric difference <value> } | { no set aigp-metric difference [<value>] }

- { set aigp-metric { <metric-value> | igp-cost } } | { no set aigp-metric [{ <metric-value> | igp-cost }] }

- { set extcommunity bandwidth <bw-value> } | { no set extcommunity bandwidth [<bw-value>] }

Changed Commands

The following commands are modified in these releases.

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

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

- OLD: { bloggerd auto-collect component { ethport { enable | disable } | kern { enable | disable } | bgp { enable | disable } | cdp { enable | disable } | snmpmib_proc { enable | disable } | arp { enable | disable } | icmpv6 { enable | disable } | l3vm { enable | disable } | pktmgr { enable | disable } | feature-mgr { enable | disable } | vpc { enable | disable } | port-channel { enable | disable } | mfdm { enable | disable } | spm { enable | disable } | dhcp_snoop { enable | disable } | mrib { enable | disable } | fex { enable | disable } | icam { enable | disable } | isis { enable | disable } | pim { enable | disable } | vmtracker { enable | disable } | tahusd { enable | disable } | adjmgr { enable | disable } | lldp { enable | disable } | udld { enable | disable } | smm { enable | disable } | lacp { enable | disable } | hsrp_engine { enable | disable } | vrrp-eng { enable | disable } | vrrp-cfg { enable | disable } | ip { enable | disable } | netstack { enable | disable } | clis { enable | disable } | pltfm_config { enable | disable } | nbm { enable | disable } | bcm_usd { enable | disable } | statsclient { enable | disable } | sysmgr { enable | disable } | jer_usd { enable | disable } | m2rib { enable | disable } | ipqosmgr { enable | disable } | hmm { enable | disable } | l2fm { enable | disable } | sla_sender { enable | disable } | sla_responder { enable | disable } | sla_twamp { enable | disable } | ufdm { enable | disable } | vrrpv3 { enable | disable } | iftmc { enable | disable } | eltm { enable | disable } | tctrl_usd { enable | disable } | CrdCfg { enable | disable } | ngoam { enable | disable } | nve { enable | disable } | cardclient { enable | disable } | l2rib { enable | disable } | eigrp { enable | disable } | kafka {

enable | disable } | im { enable | disable } | pfma { enable | disable } | cfs { enable | disable } | aclqos { enable | disable } | tun_enc_mgr { enable | disable } | cts { enable | disable } | vntag_mgr { enable | disable } | rip { enable | disable } | sdaa { enable | disable } | ipfib { enable | disable } | ospfv3 { enable | disable } | ospf { enable | disable } | aclmgr { enable | disable } | bfd { enable | disable } } }

- NEW: { bloggerd auto-collect component { ethport { enable | disable } | kern { enable | disable } | nx-1 { enable | disable } | bgp { enable | disable } | cdp { enable | disable } | snmpmib_proc { enable | disable } | arp { enable | disable } | icmpv6 { enable | disable } | l3vm { enable | disable } | pktmgr { enable | disable } | feature-mgr { enable | disable } | vpc { enable | disable } | port-channel { enable | disable } | mfdm { enable | disable } | spm { enable | disable } | dhcp_snoop { enable | disable } | mrib { enable | disable } | m6rib { enable | disable } | fex { enable | disable } | icam { enable | disable } | isis { enable | disable } | pim { enable | disable } | pim6 { enable | disable } | vmtracker { enable | disable } | tahusd { enable | disable } | adjmgr { enable | disable } | lldp { enable | disable } | udld { enable | disable } | smm { enable | disable } | lacp { enable | disable } | hsrp_engine { enable | disable } | vrrp-eng { enable | disable } | vrrp-cfg { enable | disable } | ip { enable | disable } | netstack { enable | disable } | clis { enable | disable } | pltfm_config { enable | disable } | nbm { enable | disable } | bcm_usd { enable | disable } | statsclient { enable | disable } | sysmgr { enable | disable } | jer_usd { enable | disable } | m2rib { enable | disable } | ipqosmgr { enable | disable } | hmm { enable | disable } | l2fm { enable | disable } | sla_sender { enable | disable } | sla_responder { enable | disable } | sla_twamp { enable | disable } | ufdm { enable | disable } | vrrpv3 { enable | disable } | iftmc { enable | disable } | eltm { enable | disable } | tctrl_usd { enable | disable } | CrdCfg { enable | disable } | ngoam { enable | disable } | nve { enable | disable } | cardclient { enable | disable } | l2rib { enable | disable } | eigrp { enable | disable } | kafka { enable | disable } | im { enable | disable } | pfma { enable | disable } | cfs { enable | disable } | aclqos { enable | disable } | tun_enc_mgr { enable | disable } | cts { enable | disable } | vntag_mgr { enable | disable } | rip { enable | disable } | sdaa { enable | disable } | ipfib { enable | disable } | ospfv3 { enable | disable } | ospf { enable | disable } | aclmgr { enable | disable } | bfd { enable | disable } | ethpm { enable | disable } | ifmgr { enable | disable } | interface-vlan { enable | disable } | vmm { enable | disable } } }

- OLD: clear bgp event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | peer | nve | prefixes | urib | l2rib | rpki | te | all }

- NEW: clear bgp event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | peer | nve | prefixes | urib | l2rib | rpki | te | { rpm { config | eval | keychain } } | all }

- OLD: clear esmc counters [interface <if0>]

- NEW: clear esmc counters { interface <if0> | all }

- OLD: clear ip adjacency pt statistics

- NEW: clear ip adjacency pt { iod-ip | vrf-ip | vlan-mac } statistics

- OLD: clear ip ospf [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | ldp | te | rib | hello | spf-trigger | objstore | segrt | rpm { config | eval | keychain } | kernel { msg | error } | all]

- NEW: clear ip ospf [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | ldp | te | rib | hello | spf-trigger | objstore | segrt | rpm { config | eval | keychain | sg } | kernel { msg | error } | all]

- OLD: clear l2rib event-history { errors | topology | topo-child-attr | tx-infra | client-table | mac | rmac | mac-ip | ead-pl | misc-obj | server | loop-detection | dtx | fhs }

- NEW: clear l2rib event-history { errors | topology | topo-child-attr | tx-infra | client-table | mac | rmac | mac-ip | ead-pl | misc-obj | imet | fl | dme-oper | server | loop-detection | dtx | fhs }

- OLD: clear ospfv3 [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | hello | spf-trigger | rpm { config | eval | keychain } | all]

- NEW: clear ospfv3 [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | hello | spf-trigger | rpm { config | eval | keychain | sg } | all]

- OLD: 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 }

- NEW: clear routing ipv6 [unicast] event-history { am | cli | detail | dme | errors | general | ha | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary | cc | sidmgr }

- OLD: commit [confirmed <commit-timer>]

- NEW: commit [confirmed <commit-timer>] [batch-mode] [skip-verify]

- OLD: copy { { <src_local> { <dest_local> | running-config [echo-commands] [stop-at-first-failure] | startup-config | scheduled-config } } | { <src_core> <dest_local_core> } | { running-config-src { startup-config [fabric] | <dest_local_config> } } | { startup-config-src { running-config [echo-commands] [stop-at-first-failure] | <dest_local_config> } } | { switch-profile-cfg <dest_local_config> } }

- NEW: copy { { <src_local> { <dest_local> | running-config [echo-commands] [stop-at-first-failure] [batch-mode] | startup-config | scheduled-config } } | { <src_core> <dest_local_core> } | { running-config-src { startup-config [fabric] | <dest_local_config> } } | { startup-config-src { running-config [echo-commands] [stop-at-first-failure] | <dest_local_config> } } | { switch-profile-cfg <dest_local_config> } }

- OLD: [no] event policy-default count <countnum> [time <interval>]

- NEW: [no] event policy-default { disable | count <countnum> [time <interval>] }

- OLD: [no] event-history { detail | periodic | objstore } [size { <size_in_text> | <bytes> | disable }]

- NEW: [no] event-history { detail | periodic | objstore | { rpm { config | eval | keychain } } } [size { <size_in_text> | <bytes> | disable }]

- OLD: filter remove <seqno>

- NEW: remove filter <seqno>

- OLD: global mcast-group { <maddr> } { L2 | L3 } | no global mcast-group { L2 | L3 }

- NEW: global mcast-group { <maddr> | <m6addr> } { L2 | L3 } | no global mcast-group { L2 | L3 }

- OLD: install { all [nxos <uri> | kickstart <uri1> | system <uri3> | package <uri4> | serial | ignore-script-errors] + [force] [non-disruptive | no-reload | noswitchover | maintenance-mode] [bios | no-save] [bios-force] [non-interruptive] [compact] [override] [skip-kernel-upgrade] | force-all [nxos <uri> | serial | ignore-script-errors] + [non-disruptive] [force] | all [epld <uri5> nxos <uri> | nxos <uri> epld <uri5> | package <uri4> | serial | ignore-script-errors] + [force] [noswitchover | maintenance-mode] [bios | no-save] [bios-force] [non-interruptive] [compact] [override] }

- NEW: install { all [nxos <uri> | kickstart <uri1> | system <uri3> | package <uri4> | serial | ignore-script-errors] + [force] [keep-committed-smu] [non-disruptive | no-reload | noswitchover | maintenance-mode] [bios | no-save] [bios-force | skip-bios-upgrade] [non-interruptive] [compact] [override] [skip-kernel-upgrade] | force-all [nxos <uri> | serial | ignore-script-errors] + [non-disruptive] [force] | all [epld <uri5> nxos <uri> | nxos <uri> epld <uri5> | package <uri4> | serial | ignore-script-errors] + [force] [keep-committed-smu] [noswitchover | maintenance-mode] [bios | no-save] [bios-force | skip-bios-upgrade] [non-interruptive] [compact] [override] }

- OLD: install epld <uri1> { { module { <module> | all } [force] } }

- NEW: install epld <uri1> { { module { <module> | all } [reload-opt] [force] } }

- OLD: install epld <uri1> { { module { <module> | all } { primary | golden } [force] } }

- NEW: install epld <uri1> { { module { <module> | all } { primary | golden } [reload-opt] [force] } }

- OLD: [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>] [hardware { lb-keyshift <value1> | lb-2nd-hier-keyshift <value2> } +] | 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 } [exclude-l3-proto] { [rotate <rotate>] | [concatenation] } + [universal-id <random-seed>] [hardware { lb-keyshift <value1> | lb-2nd-hier-keyshift <value2> } +] | no ip load-sharing address

- OLD: [ip ospf event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | objstore | segrt | rpm { config | eval | keychain } | kernel { error | msg } } size { <size_in_text> | <size_in_Kbytes> }] | [no ip ospf event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | objstore | segrt | rpm { config | eval | keychain } | kernel { error | msg } }]

- NEW: [ip ospf event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | objstore | segrt | rpm { config | eval | keychain | sg } | kernel { error | msg } } size { <size_in_text> | <size_in_Kbytes> }] | [no ip ospf event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | objstore | segrt | rpm { config | eval | keychain | sg } | kernel { error | msg } }]

- OLD: [no] ipv6 flow monitor <monitorname> { input | output }

- NEW: [no] ipv6 flow monitor <monitorname> { input }

- OLD: [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> }

- NEW: [no] ipv6 routing event-history { am | cli | detail | dme | errors | general | ha | recursive-next-hop | summary | ufdm | ufdm-summary | cc | sidmgr } size { <size_in_text> | <size_in_bytes> }

- OLD: [no] logging rfc-strict { 5424 }

- NEW: [no] logging rfc-strict { 5424 [full] }

- OLD: [no] mac address-table limit { system | vlan <id> | interface <interface-name> } { <limitcount> } [actiondrop]

- NEW: [no] mac address-table limit { system | vlan <id> | interface <interface-name> } { <limitcount> }

- OLD: mcast-group { <maddr1> } [{ <maddr2> }] | no mcast-group

- NEW: mcast-group { <maddr1> [<maddr2>] | <m6addr1> [<m6addr2>] } | no mcast-group

- OLD: [no] member vni <vni-range> mcast-group { <maddr1> } [{ <maddr2> }]

- NEW: [no] member vni <vni-range> mcast-group { <maddr1> | <m6addr1> } [{ <maddr2> | <m6addr2> }]

- OLD: [no] nbm flow impact-low-priority disable

- NEW: [no] nbm flow impact-low-priority

- OLD: [no ospfv3 event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | hello | spf-trigger | rpm { config | eval | keychain } }] | [ospfv3 event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | hello | spf-trigger | rpm { config | eval | keychain } } size { <size_in_text> | <size_in_Kbytes> }]

- NEW: [no ospfv3 event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | hello | spf-trigger | rpm { config | eval | keychain | sg } }] | [ospfv3 event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | hello | spf-trigger | rpm { config | eval | keychain | sg } } size { <size_in_text> | <size_in_Kbytes> }]

- OLD: [no] platform insert module <module_num> [{ { linecard { N9K-X9516v | N9K-X9532v | N9K-X9536v | N9K-X9548v | N9K-X9564v | 8201-32FH | N9K-C9808-FM-A | N9K-C9804-FM-A | N9K-C93180YC-FX3S | N9K-C93108TC-FX3P | N9K-C9364C-GX | N9K-C93600CD-GX | N9K-C9316D-GX | N9K-C9364D-GX2A | N9K-C9348D-GX2A | N9K-C9332D-GX2B | N9K-C9332D-H2R | N9K-C9336D-HXB | N9K-C9364C-HXB | N9K-X9836DM-A | N9K-X9836DM-B | N9K-C9232E-B1 | N9K-C9348GC-FX3 | N9K-C9348GC-FX3PH } } } | { sup { eor | tor } }]

- NEW: [no] platform insert module <module_num> [{ { linecard { N9K-X9516v | N9K-X9532v | N9K-X9536v | N9K-X9548v | N9K-X9564v | 8201-32FH | N9K-C9808-FM-A | N9K-C9804-FM-A | N9K-C93108TC-FX3P | N9K-C9364C-GX | N9K-C93600CD-GX | N9K-C9316D-GX | N9K-C9364D-GX2A | N9K-C9348D-GX2A | N9K-C9332D-GX2B | N9K-C9332D-H2R | N9K-C9336D-HXB | N9K-C9364C-HXB | N9K-C9364C-H1 | N9K-X9836DM-A | N9K-X9836DM-B | N9K-C9232E-B1 | N9K-C9348GC-FX3 | N9K-C9348GC-FX3PH | N9K-C9336C-K1 | N9K-C93180YC-FX3 | N9K-X98900CD-A } } } | { sup { eor | tor } }]

- OLD: [no] probe { icmp | <l4-proto> <port-num> [control <status>] | http get [<url-name>] | dns host <host-name> | ctp } [frequency <freq-num> | timeout <timeout> | retry-down-count <down-count> | retry-up-count <up-count> | source-interface <src-intf>] +

- NEW: [no] probe { icmp | <l4-proto> <port-num> [control <status>] | http { get [<url-name>] [version <http-version>] } | dns host <host-name> | ctp } [frequency <freq-num> | timeout <timeout> | retry-down-count <down-count> | retry-up-count <up-count> | source-interface <src-intf> | reverse <rev-src-intf>] +

- OLD: [no] ssh { kexalgos | ciphers | macs | keytypes } all

- NEW: [no] ssh { kexalgos | ciphers | macs | keytypes } { all | <algo-name> }

- OLD: [no] system { { routing { hierarchical def-max-mode l3 64b-alpm | non-hierarchical [max-mode l3-nh [64b-alpm-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] } }

- NEW: [no] system { { routing { hierarchical def-max-mode l3 64b-alpm | non-hierarchical [max-mode l3-nh [64b-alpm-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 | template-security-groups } } | { non-hierarchical-routing [max-l3-mode] } }

- 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_mask>] | <dscp_str> } } | { flow-label <flow_num> } | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] [all] | 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>] [all] | 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>] [all] [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>] } { [<actionv6> <actionidv6>] } + [load-share] [log] }

- 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>] [all] [route-tag <route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] [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>] } { [<actionv6> <actionidv6>] } + [load-share] [log] }

- 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>] [all] | <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>] [all] | <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>] [all] | <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>] [all] | <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>] [all] | 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>] [all] | 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>] } + [load-share] { [<action> <actionid>] } + [{ set-vlan <wf_set_vlan_actionid> } | strip-vlan] [log] [wideflow [srcmac { <wfsrc_any> | { <wfsrc_addr> <wfsrc_wild> } }] [dstmac { <wfdst_any> | { <wfdst_addr> <wfdst_wild> } }] [vlan <wf_vlan>]] }

- 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>] [all] [route-tag <route_tag_type>] | <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>] [all] [route-tag <route_tag_type>] | <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>] [all] [route-tag <route_tag_type>] | <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>] [all] [route-tag <route_tag_type>] | <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>] [all] [route-tag <route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] | 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>] } + [load-share] { [<action> <actionid>] } + [{ set-vlan <wf_set_vlan_actionid> } | strip-vlan] [log] [wideflow [srcmac { <wfsrc_any> | { <wfsrc_addr> <wfsrc_wild> } }] [dstmac { <wfdst_any> | { <wfdst_addr> <wfdst_wild> } }] [vlan <wf_vlan>]] }

- 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_mask>] | <dscp_str> } }] [{ flow-label <flow_num> }] [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] [all] [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>] [all] [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>] [all] [route-tag <route_tag_type>] [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>] [all] [route-tag <route_tag_type>] [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> |

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- NEW: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <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> }] { { [[log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>
  ] [all] [route-tag <route_tag_type>] | 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>] [all] [route-tag
  <route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] | 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>] [all] [route-tag
  <route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] | 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>] } + [load-share] { [<action> <actionid>
] } + [{ set-vlan <wf_set_vlan_actionid> } | strip-vlan] [log] [wideflow [srcmac { <wfsrc_any> | {
<wfsrc_addr> <wfsrc_wild> } }] [dstmac { <wfdst_any> | { <wfdst_addr> <wfdst_wild> } }] [vlan
<wf_vlan>]]

- 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_mask>] | <dscp_str> } }] [{ flow-label <flow_num> }] [fragments] [log] [telemetry_queue
] [telemetry_path] [time-range <time_range_name>] [all] [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>] } + [
load-share] { [<actionv6> <actionidv6>] } [log] | { 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_mask>] | <dscp_str> } }] [{ flow-label <flow_num> }] [fragments] [log] [telemetry_queue
] [telemetry_path] [time-range <time_range_name>] [all] [route-tag <route_tag_type>] [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>] } + [load-share] { [<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>] [all] | { <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>] [
all] | <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>] [all] | { <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>] [all] | <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>] [all] | 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>] [all] | 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>] } + [load-share] { [<action> <actionid>] } + [{ set-vlan <wf_set_vlan_actionid> } | strip-vlan] [log] [wideflow [srcmac { <wfsrc_any> | { <wfsrc_addr> <wfsrc_wild> } }] [dstmac { <wfdst_any> | { <wfdst_addr> <wfdst_wild> } }] [vlan <wf_vlan>]] }

- 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>] [all] [route-tag <route_tag_type>] | { <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>] [all] [route-tag <route_tag_type>] | <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>] [all] [route-tag <route_tag_type>] | { <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>] [all] [route-tag <route_tag_type>] | <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>] [all] [route-tag <route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] | 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>] } + [load-share] { [<action> <actionid>] } + [{ set-vlan <wf_set_vlan_actionid> } | strip-vlan] [log] [wideflow [srcmac { <wfsrc_any> | { <wfsrc_addr> <wfsrc_wild> } }] [dstmac { <wfdst_any> | { <wfdst_addr> <wfdst_wild> } }] [vlan <wf_vlan>]] }

- 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>] [all] | 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>] [all] | 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>] } + [load-share
] { [<action> <actionid>] } + [{ set-vlan <wf_set_vlan_actionid> } | strip-vlan] [log] [wideflow [
srcmac { <wfsrc_any> | { <wfsrc_addr> <wfsrc_wild> } }] [dstmac { <wfdst_any> | { <wfdst_addr>
<wfdst_wild> } }] [vlan <wf_vlan>]] | { [<action> <actionid>] } + [telemetry_queue] | { [<action>
<actionid>] } + [telemetry_path] [all]

- 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>] [all] [route-tag
<route_tag_type>] | 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>] [all] [route-tag <route_tag_type>] | 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>] } + [load-share] { [<action>
<actionid>] } + [{ set-vlan <wf_set_vlan_actionid> } | strip-vlan] [log] [wideflow [srcmac {
<wfsrc_any> | { <wfsrc_addr> <wfsrc_wild> } }] [dstmac { <wfdst_any> | { <wfdst_addr> <wfdst_wild>
} }] [vlan <wf_vlan>]] | { [<action> <actionid>] } + [telemetry_queue] | { [<action> <actionid>]
} + [telemetry_path] [all] | [route-tag <route_tag_type>]

Deprecated Commands

The following commands are removed in these releases.

- [no] aaa authentication cts default group <grp_name> +

- [no] aaa authorization cts default group <grp_name> +

- [no] auto-remap-replication-servers

- [no] cts sxp enable

- [no] fabric-ready time <sec>

- [no] feature icam

- [no] icam monitor entries acl [module <module> [inst <inst>]]

- [no] icam monitor entries multicast module <module>

- [no] icam monitor resource { acl_tcam | acl-tcam | fib_tcam | fib-tcam } [module <module> [inst <inst>
  ]]

- [no] icam monitor scale

- [no] icam monitor scale { { threshold info <ithres> warning <wthres> critical <cthres> } | { { {
  l2-switching { mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports
  | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan | isolated-portvlan |

rpvst-lport } | vlan { vlan-count } } } | { multicast-routing { multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | route-sg-v4 | route-starg-v4 | route-sg-v6 | route-starg-v6 | outgoing-interface } | igmp { group } | pim { neighbor } } } | { unicast-routing { bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path } } } | { vxlan { igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | overlay-mac | total-mac | vtep | ir-peer | ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp | vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } } } } limit <nlimit> } }

- [no] icam monitor system

- [no] icam monitor system { { threshold info <ithres> warning <wthres> critical <cthres> } }

- [no] ip pim pfm-sd range { <prefix> | { route-map <route-map-name> } | { prefix-list <prefix-list-name> } }

- [no] ip udp relay subnet-broadcast

- [no] logging level icam <i0>

- [no] logging level orib <level>

- [no] orib event-history { cli | ipc | uroute | mroute | mroute_only | uhw | mhw | ha | internal } { size { <size_in_text> | <size_in_kbytes> } }

- [no] snmp-server contact [<line>]

- [no] ssh kexalgos ecdh-sha2-nistp384

- [no] system module emon-enhanced timeout-multiplier <multiplier>

- clear icam database

- ip filter add <seqno> { src-ip <src-ip> dst-ip <dst-ip> [protocol <prot> [l4-src-port { any | <l4-src-port> } l4-dst-port { any | <l4-dst-port> }]] } +

- ipv6 filter add <seqno> { src-ipv6 <src-ipv6> dst-ipv6 <dst-ipv6> [protocol <prot> [l4-src-port { any | <l4-src-port> } l4-dst-port { any | <l4-dst-port> }]] } +

- l2rib event-history { client-tbl | ead-pl | errors | mac | mac-ip | misc-obj | rmac | topology | topo-child-attr | tx-infra | server | loop-detection | dtx | fhs } size { default | medium | high | very-high }

- nve event-history { <buffer-name> } size { <size_in_text> | <size_in_bytes> }

- policy { { dynamic identity <device-id> } | { static sgt <sgt> [trusted] } } | no policy static | no policy dynamic

- reload restore [delay <time-out>] | no reload restore

- restart fabric_mcast

- restart orib

- route-map <rtmap-name> [permit | deny]

- sap pmk <pmk> [left-zero-padded] [modelist <mode_opt>] | sap pmk use-dot1x [modelist <mode_opt>] | no sap

- { cts l3 spi <spi> { { esp-key <key> } | <ip_prefix> } } | { no cts l3 spi <ip_prefix> }

- { cts l3 spi <spi> } | { no cts l3 }

- { cts sxp connection peer <peer_ipaddress> [source <source_ipaddress>] password { required { <password> | 7 <encrypted-password> } | default | none } mode { speaker | listener } } | { no cts sxp connection peer <peer_ipaddress> } } [vrf <vrf_name>]

- { cts sxp default password { <password> | 7 <encrypted_password> } } | { no cts sxp default password }

- { cts sxp default source-ip <source_ipaddress> } | { no cts sxp default source-ip }

- { cts sxp reconcile-period <timer_value> } | { no cts sxp reconcile-period }

- { cts sxp retry-period <timer_value> } | { no cts sxp retry-period }

- { icam monitor interval <interval-hours> { num_intervals | history } <number-of-intervals> | no icam monitor interval [<ignore-range-interval-hours> [{ num_intervals | history } [<ignore-range-number-of-intervals>]]] }

- { link transmit attenuation | no link transmit attenuation }