



New, Changed, and Deprecated Commands

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New, Changed, and Deprecated Commands in Cisco NX-OS Releases 10.3(2) through 10.3(4a)

New Commands

The following commands are added in these releases.

- ip msdp keychain <peer-address> <name> | no ip msdp keychain <peer-address> [<name>]
- mode sdg-agent [multi-layer] | no mode
- [no] [keychain <keychain_name> | pki] [policy <policy_name>]
- [no] cabundle <s0>
- [no] cache-sync timer <interval>
- [no] crypto ca cabundle <s0>
- [no] crypto key generate ecc [{ [exportable] [modulus <i0>] | [label <s0>] [[exportable] [modulus1 <i1>]] | modulus2 <i2> }]
- [no] deep-buffer
- [no] ecckeypair <s0>
- [no] fabric multicast event-history nve {size {<size_in_text> | <size_in_kbytes>}}
- [no] feature grptunnel
- [no] hardware profile flow-redirect forward-pdu
- [no] hardware profile gpe-5-timer enable
- [no] intersight connection <name> | no intersight connection
- [no] intersight source-interface <ifName> | no intersight source-interface
- [no] intersight trustpoint <trustpoint-label> [<host-name>] | no intersight trustpoint
- [no] intersight use-vrf { default | <vrf-cfg-name> } | no intersight use-vrf
- [no] ip igmp event-history pim-library {size {<size_in_text> | <size_in_kbytes>}}
- [no] ip mfwd event-history pim-library {size {<size_in_text> | <size_in_kbytes>}}
- [no] ip port access-group <acl-ip-name> <inout>
- [no] ip routing multicast event-history eoc {size {<size_in_text> | <size_in_kbytes>}}
- [no] ip routing multicast event-history pim-library {size {<size_in_text> | <size_in_kbytes>}}
- [no] ip routing multicast event-history policy {size {<size_in_text> | <size_in_kbytes>}}
- [no] ipv6 mfwd event-history pim-library {size {<size_in_text> | <size_in_kbytes>}}
- [no] ipv6 routing multicast event-history eoc {size {<size_in_text> | <size_in_kbytes>}}

- [no] ipv6 routing multicast event-history pim-library {size {<size_in_text> | <size_in_kbytes>}}
- [no] ipv6 routing multicast event-history policy {size {<size_in_text> | <size_in_kbytes>}}
- [no] load-balance egress filter-policy route-map <rmap-name>
- [no] load-balance egress multipath auto-policy route-map <rmap-name>
- [no] logging level app-hosting <i0>
- [no] match { ip address <acl-ip-name> | ipv6 address <acl-ipv6-name> | mac address <acl-mac-name> }
- [no] mdns-sd service-peer group
- [no] mdt data vxlan <group-range> [threshold <value>] [route-map <policy-name>] [<seq-no>]
- [no] name-lookup [use-vrf <dns-vrf-name>]
- [no] nexthop load-balance egress multisite
- [no] peer-group <group-id>
- [no] ptpt peer { <ipv4> | <ipv6> }
- [no] ptpt system-clock ptpt
- [no] redistribute { static | direct | amt | lisp | am | hmm | icmpv6 | { {eigrp | isis | ospfv3 | rip} <tag> } } route-map <rmap-name>
- [no] service-peer <peer-ip> location-group {<location-id> | default | all} [role {<role-name> | all}]
- [no] system routing mode low-latency
- [no] system security consent-token shell-access [<timeout>] [force]
- [no] system storm-control priority-policy drop-l3
- [no] time-stamp hpt
- [no] tunnel-encryption pki source-interface {<interface> | cloudsec-loopback}
- [no] tunnel-encryption pki {sudi | trustpoint <trustpoint_name>}
- [no] vxlan udp src-port {low | high | rfc}
- [no] zr-optics fec <fec_val> muxponder <mxp_val> modulation <mod_val> dac-rate <dr_val>
- [no] zrp-optics fec <fec_val> muxponder <mxp_val> modulation <mod_val> dac-rate <dr_val>
- [no] {platform | hardware} access-list team pbr match-default-route
- app-hosting upgrade appid <app-hosting-appid> package <uri> [no-recover]
- clear bootflash
- clear forwarding datamdt-route-history
- clear ip pim pfm-sd cache [vrf {<vrf-name> | <vrf-known-name>} | all]
- clear mdns-sd sdg service-peer { all | ip <peer-ip> }
- clear mdns-sd sp-sdg statistics

- clear { access-list counters [<acl-ip-ipv6-mac-name>] | ip access-list counters [<acl-ip-name>] | ipv6 access-list counters [<acl-ipv6-name>] | mac access-list counters [<acl-mac-name>] }
- hash-mode { gtp-inner-v4 | gtp-inner-v6 } | no hash-mode { gtp-inner-v4 | gtp-inner-v6 }
- intersight cnmi { { patch | post | put } <path_str> data <data_str> | { get | delete } <path_str> }
- intersight device-connector unclaim
- [no] ip pim pfm-sd range {<prefix> | { route-map <route-map-name> } | { prefix-list <prefix-list-name> } }
- ip igmp snooping query flood | no ip igmp snooping query flood
- ip pim hello-authentication keychain <name> | no ip pim hello-authentication keychain [<name>]
- ip pim pfm-sd announcement gap { <interval> | no ip pim pfm-sd announcement gap [<interval>] }
- ip pim pfm-sd announcement interval { <interval> | no ip pim pfm-sd announcement interval [<interval>] }
- ip pim pfm-sd announcement rate { <rate> } | no ip pim pfm-sd announcement rate [<rate>]
- ip pim pfm-sd announcement triggered-delay { <time> } | no ip pim pfm-sd announcement triggered-delay [<time>]
- ip pim pfm-sd gsh holdtime { <holdtime> } | no ip pim pfm-sd gsh holdtime [<holdtime>]
- ip pim pfm-sd originator-id { <interface> } | no ip pim pfm-sd originator-id [<interface>]
- ip pim pfm-sd {boundary <direction>} | no ip pim pfm-sd {boundary [<direction>]}
- key-string 6 <keystring>
- license smart source-interface <src-intf> | no license smart source-interface
- license smart vrf {<vrf_name> | <vrf-known-name>} | no license smart vrf
- link active-jitter-management | no link active-jitter-management
- message max-size <kbytes> | no message max-size
- nbm bandwidth capacity <percentage> | no nbm bandwidth capacity
- no userpassphrase min-unique
- set as-path-length difference <value> | no set as-path-length difference [<value>]
- set load-share <value> | no set load-share [<value>]
- set load-share multipath-equal-group <value> | no set load-share multipath-equal-group [<value>]
- set load-share multipath-unequal-group <value> | no set load-share multipath-unequal-group [<value>]
- set maximum-paths <value> | no set maximum-paths [<value>]
- set metric difference <value> | no set metric difference [<value>]
- source-interface <src-intf> | no source-interface
- source-interface {<interface>} | no source-interface {<interface>}

- switchport trunk l3-multicast receiver-vlan <vlan-id> | no switchport trunk l3-multicast receiver-vlan
- time-stamp hpt device-id <id> | no time-stamp hpt device-id
- time-stamp hpt utc-offset | no time-stamp hpt utc-offset
- userpassphrase min-unique { <count> }
- zr-optics cd-min <cd_min> cd-max <cd_max>
- zr-optics dwdm-carrier 100GHz-grid frequency <freq_100ghz_val>
- zr-optics dwdm-carrier 100MHz-grid frequency <freq_100mhz_val>
- zr-optics dwdm-carrier 50GHz-grid { { frequency <freq_50ghz_val> } | { itu-channel <itu_chan_50ghz_val> } | { wavelength <wavelen_50ghz_val> } }
- zr-optics transmit-power <tx_pwr>
- zrp-optics cd-min <cd_min> cd-max <cd_max>
- zrp-optics dwdm-carrier 100GHz-grid frequency <freq_100ghz_val>
- zrp-optics dwdm-carrier 100MHz-grid frequency <freq_100mhz_val>
- zrp-optics dwdm-carrier 50GHz-grid { { frequency <freq_50ghz_val> } | { itu-channel <itu_chan_50ghz_val> } | { wavelength <wavelen_50ghz_val> } }
- zrp-optics transmit-power <tx_pwr>
- {platform | hardware} rate-limiter { bpdu | ip { local } | arp | sw-fwd | mac { learned | local } | errors | fwd { miss } } <rate> [burst <burst>] | no {platform | hardware} rate-limiter { bpdu | ip { local } | arp | sw-fwd | mac { local | learned } | errors | fwd { miss } } <rate> [burst <burst>]

Changed Commands

The following commands are modified in these releases.

- 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>] | no ip load-sharing address
- NEW: [no] ip load-sharing address {source-destination [port source-destination2 [symmetric | inner {all [infra-mode] | greheader [symmetric]}] | gre | gre-outer | gtpu | ipv6-flowlabel | ttl | { [udf offset <offset> length <length>] }] | destination port2 destination2 | source } {[rotate <rotate>] | [concatenation]}+ [universal-id <random-seed>] [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} 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}]
- NEW: [ip ospf event-history {adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | objstore | segrt | 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 | kernel {error | msg}}]

- OLD: [no] access-class <name> <inout>
- NEW: [no] access-class <acl-ip-ipv6-name> <inout>
- OLD: [no] filter access-group <acl-name> [allow-sharing]
- NEW: [no] filter access-group <vacl-name> [allow-sharing]
- OLD: [no] filter ipv6 access-group <acl-name> [allow-sharing]
- NEW: [no] filter ipv6 access-group <vacl-name> [allow-sharing]
- OLD: [no] hardware profile forwarding-mode { warp [lpm-entry <lpm_warp> host-entry <host> l2-entry <l2> mcast-entry <mcast_warp>] | openflow-hybrid | openflow-only | normal [lpm-entry <ipv4> mcast-entry <mcast>] }
- NEW: [no] hardware profile forwarding-mode { warp [lpm-entry <lpm_warp> host-entry <host> l2-entry <l2> mcast-entry <mcast_warp>] | normal [lpm-entry <ipv4> mcast-entry <mcast>] }
- OLD: [no] hardware profile tcam region { <tcam_compat_type> <tcam_compat_size> | ifacl <tcam_compat_size> [double-wide] | nat <tcam_compat_size> }
- NEW: [no] hardware profile tcam region { <tcam_compat_type> <tcam_compat_size> | ifacl <tcam_compat_size> [double-wide] | nat <tcam_compat_size> | ifacl-wide <ifacl_wide_tcam_size> }
- OLD: [no] icam monitor scale { {threshold info <ithrens> warning <wthrens> 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 } | 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 | wlan-mapping-under-intf | wlan-mapping-in-switch | static-mac-to-vtep | wlan-logical-port-vp | wlan-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 | wlan-logical-port-vp | wlan-per-fex-port | igmp-group } } } } limit <nlimit> } }
- NEW: [no] icam monitor scale { {threshold info <ithrens> warning <wthrens> 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 |

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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 | wlan-mapping-under-intf | wlan-mapping-in-switch | static-mac-to-vtep | wlan-logical-port-vp | wlan-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 | wlan-logical-port-vp | wlan-per-fex-port | igmp-group } } } } limit <nlimit> } }
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- OLD: [no] ip access-class <name> <inout>
- NEW: [no] ip access-class <acl-ip-name> <inout>
- OLD: [no] ip access-group <name> <inout>
- NEW: [no] ip access-group <acl-ip-name> <inout>
- OLD: [no] ip access-list <name> [client <clienttype> <clientID>]
- NEW: [no] ip access-list <acl-ip-name> [client <clienttype> <clientID>]
- OLD: [no] ip eigrp <eigrp-tag> bfd [disable]
- NEW: [no] ip eigrp <eigrp-ptag> bfd [disable]
- OLD: [no] ip flow monitor <monitorname> input
- NEW: [no] ip flow monitor <monitorname> { input }
- OLD: [no] ip name-server { {<ipv4_0> |<ipv6_1>} [{<ipv4_2> |<ipv6_3>} [{<ipv4_4> |<ipv6_5>} [{<ipv4_6> |<ipv6_7>} [{<ipv4_8> |<ipv6_9>} [{<ipv4_10> |<ipv6_11>}]]]]] | {<ipv4_12> |<ipv6_13>} [use-vrf {<vrf-name> |<vrf-known-name>}] | {<ipv4_14> |<ipv6_15>} [{<ipv4_16> |<ipv6_17>} [use-vrf {<vrf-name> |<vrf-known-name>}]] | {<ipv4_18> |<ipv6_19>} [{<ipv4_20> |<ipv6_21>} [{<ipv4_22> |<ipv6_23>} [use-vrf {<vrf-name> |<vrf-known-name>}]]] | {<ipv4_24> |<ipv6_25>} [{<ipv4_26> |<ipv6_27>} [{<ipv4_28> |<ipv6_29>} [{<ipv4_30> |<ipv6_31>} [use-vrf {<vrf-name> |<vrf-known-name>}]]]] | {<ipv4_32> |<ipv6_33>} [{<ipv4_34> |<ipv6_35>} [{<ipv4_36> |<ipv6_37>} [{<ipv4_38> |<ipv6_39>} [{<ipv4_40> |<ipv6_41>} [use-vrf {<vrf-name> |<vrf-known-name>}]]]] | {<ipv4_42> |<ipv6_43>} [{<ipv4_44> |<ipv6_45>} [{<ipv4_46> |<ipv6_47>} [{<ipv4_48> |<ipv6_49>} [{<ipv4_50> |<ipv6_51>} [{<ipv4_52> |<ipv6_53>} [use-vrf {<vrf-name> |<vrf-known-name>}]]]]]] }
- NEW: [no] ip name-server { {<ipv4_0> |<ipv6_1>} [{<ipv4_2> |<ipv6_3>} [{<ipv4_4> |<ipv6_5>} [{<ipv4_6> |<ipv6_7>} [{<ipv4_8> |<ipv6_9>} [{<ipv4_10> |<ipv6_11>}]]]]] | {<ipv4_12> |<ipv6_13>} [source-interface <ifnum> | use-vrf {<vrf-name> |<vrf-known-name>}]+ | {<ipv4_14> |<ipv6_15>} [{<ipv4_16> |<ipv6_17>} [source-interface <ifnum> | use-vrf {<vrf-name> |<vrf-known-name>}]+ | {<ipv4_18> |<ipv6_19>} [{<ipv4_20> |<ipv6_21>} [{<ipv4_22> |<ipv6_23>} [source-interface <ifnum> | use-vrf {<vrf-name> |<vrf-known-name>}]+]] | {<ipv4_24> |<ipv6_25>} [{<ipv4_26> |<ipv6_27>} [{<ipv4_28> |<ipv6_29>} [{<ipv4_30> |<ipv6_31>} [source-interface <ifnum> | use-vrf {<vrf-name> |<vrf-known-name>}]+]] | {<ipv4_32> |<ipv6_33>} [{<ipv4_34> |<ipv6_35>} [{<ipv4_36> |<ipv6_37>} [{<ipv4_38> |<ipv6_39>} [{<ipv4_40> |<ipv6_41>} [source-interface <ifnum> | use-vrf {<vrf-name> |<vrf-known-name>}]+]]] | {<ipv4_42> |<ipv6_43>} [{<ipv4_44> |<ipv6_45>} [{<ipv4_46> |<ipv6_47>} [{<ipv4_48> |<ipv6_49>} [{<ipv4_50> |<ipv6_51>} [{<ipv4_52> |<ipv6_53>} [use-vrf {<vrf-name> |<vrf-known-name>}]]]]]]] }

|<ipv6_51> } [{<ipv4_52> |<ipv6_53>} [source-interface <ifnum> | use-vrf {<vrf-name> | <vrf-known-name>}]+]] }

- OLD: [no] ipv6 access-class <name> <inout>
- NEW: [no] ipv6 access-class <acl-ipv6-name> <inout>
- OLD: [no] ipv6 access-list <name> [client <clienttype> <clientID>]
- NEW: [no] ipv6 access-list <acl-ipv6-name> [client <clienttype> <clientID>]
- OLD: [no] ipv6 flow monitor <monitorname> input
- NEW: [no] ipv6 flow monitor <monitorname> { input }
- OLD: [no] ipv6 port traffic-filter <name> <inout>
- NEW: [no] ipv6 port traffic-filter <acl-ipv6-name> <inout>
- OLD: [no] ipv6 traffic-filter <name> <inout>
- NEW: [no] ipv6 traffic-filter <acl-ipv6-name> <inout>
- OLD: [no] layer2-switched flow monitor <monitorname> input
- NEW: [no] layer2-switched flow monitor <monitorname> { input }
- OLD: [no] lldp { holdtime <i0> | reinit <i1> | timer <i2> | portid-subtype <i3> | tlv-select { management-address | port-description | port-vlan | power-management | system-capabilities | system-description | system-name | dcbsp | four-wire-power-management | port { max-framesize | vlan-name } } | port-channel | multi-neighbor | chassis-id switch }
- NEW: [no] lldp { holdtime <i0> | reinit <i1> | timer <i2> | portid-subtype <i3> | tlv-select { management-address | port-description | port-vlan | power-management | system-capabilities | system-description | system-name | dcbsp | four-wire-power-management | port { max-framesize | vlan-name | link-aggregation } } | port-channel | multi-neighbor | chassis-id switch }
- OLD: [no] load-balance {{ {method <lb-method>} | {buckets <buckets>} }+}
- NEW: [no] load-balance {{ {method <lb-method>} | {buckets <buckets>} | {mask-position <mpos>} }+}
- OLD: [no] logging rfc-strict { 5424 }
- NEW: [no] logging rfc-strict { 5424 [full] }
- OLD: [no] mac access-list <name> [client <clienttype> <clientID>]
- NEW: [no] mac access-list <acl-mac-name> [client <clienttype> <clientID>]
- OLD: [no] mac port access-group <name>
- NEW: [no] mac port access-group <acl-mac-name>
- OLD: [no] mode openflow
- NEW: [no] mode flow-redirect

- OLD: [no] mpls access-list <name>
- NEW: [no] mpls access-list <mpls_name>
- OLD: [no] mpls port access-group <name> <inout>
- NEW: [no] mpls port access-group <mpls_name> <inout>
- OLD: [no] ntp authentication-key <number> md5 <md5> [0 | 7]
- NEW: [no] ntp authentication-key <number> { md5 | aes128cmac } <password> [0 | 7 | 6]
- OLD: [no] object-group ip address <name>
- NEW: [no] object-group ip address <ip-obj-name>
- OLD: [no] object-group ip port <name>
- NEW: [no] object-group ip port <port-obj-name>
- OLD: [no] object-group ipv6 address <name>
- NEW: [no] object-group ipv6 address <ipv6-obj-name>
- OLD: [no] platform insert module <module_num> [{linecard { N9K-X9516v | N9K-X9532v | N9K-X9536v | N9K-X9548v | N9K-X9564v | N9K-C9316D-GX | N9K-C9364D-GX2A } }] [asic_mode <uri0>]
- NEW: [no] platform insert module <module_num> [{linecard { N9K-X9516v | N9K-X9532v | N9K-X9536v | N9K-X9548v | N9K-X9564v | 8201-32FH | 8201-08FM | N9K-C93180YC-EX | N9K-C93108TC-EX | N9K-C93108TC-FX | N9K-C93180YC-FX | N9K-C9348GC-FXP | N9K-C9336C-FX2 | N9K-C93240YC-FX2 | N9K-C9336C-FX2-E | N9K-C93180YC-FX3S | N9K-C93108TC-FX3P | N9K-C9364C-GX | N9K-C93600CD-GX | N9K-C9316D-GX | N9K-C9364D-GX2A | N9K-C9348D-GX2A | N9K-C9400-SW-GX2A | N9K-C9332D-GX2B | N9K-C9332D-HXA | N9K-C9336D-HXB | N9K-C9364C-HXB | N9K-X9836DM-A | N9K-X9836DM-B | N9K-C9232E-B1 } }] [{asic_mode}]
- OLD: [no] set ip next-hop [recursive] {[<addr1>+] { {[drop-on-fail] [load-share] [force-order]} | {[drop-on-fail] [force-order] [load-share]} | {[load-share] [drop-on-fail] [force-order]} | {[load-share] [force-order] [drop-on-fail]} | {[force-order] [drop-on-fail] [load-share]} | {[force-order] [load-share] [drop-on-fail]} }}
- NEW: [no] set ip next-hop [recursive] {{<addr1>+ [{drop-on-fail | force-order | load-share}+]} | { {drop-on-fail | force-order | load-share}+ }}
- OLD: [no] set ip vrf {<vrf-name> | <vrf-known-name>} next-hop [recursive] {[<addr1>+] { {[drop-on-fail] [load-share] [force-order]} | {[drop-on-fail] [force-order] [load-share]} | {[load-share] [drop-on-fail] [force-order]} | {[load-share] [force-order] [drop-on-fail]} | {[force-order] [drop-on-fail] [load-share]} | {[force-order] [load-share] [drop-on-fail]} }}
- NEW: [no] set ip vrf {<vrf-name> | <vrf-known-name>} next-hop [recursive] {{<addr1>+ [{drop-on-fail | force-order | load-share}+]} | { {drop-on-fail | force-order | load-share}+ }}

- OLD: [no] set ipv6 next-hop {[<addr>+] { {[drop-on-fail] [load-share] [force-order]} | {[drop-on-fail] [force-order] [load-share]} | {[load-share] [drop-on-fail] [force-order]} | {[load-share] [force-order] [drop-on-fail]} | {[force-order] [drop-on-fail] [load-share]} | {[force-order] [load-share] [drop-on-fail]} }}}
- NEW: [no] set ipv6 next-hop {[<addr>+] { {drop-on-fail | force-order | load-share}+ } } | { {drop-on-fail | force-order | load-share}+ } }
- OLD: [no] set ipv6 vrf {<vrf-name> <vrf-known-name>} next-hop {[<addr>+] { {[drop-on-fail] [load-share] [force-order]} | {[drop-on-fail] [force-order] [load-share]} | {[load-share] [drop-on-fail] [force-order]} | {[load-share] [force-order] [drop-on-fail]} | {[force-order] [drop-on-fail] [load-share]} | {[force-order] [load-share] [drop-on-fail]} }}}
- NEW: [no] set ipv6 vrf {<vrf-name> | <vrf-known-name>} next-hop {{<addr>+ { {drop-on-fail | force-order | load-share}+ } } | { {drop-on-fail | force-order | load-share}+ } }}
- OLD: [no] snmp-server user <s0> { enforcePriv | { [<s1>] { [auth { md5 | sha | sha-224 | sha-256 | sha-384 | sha-512 } <s2> { [priv [des | aes-128] <s3> [{ localizedkey | localizedV2key }] [{ auto | engineID <s4> }] } | { [{ localizedkey1 | localizedV2key1 }] [{ auto1 | engineID1 <s5> }] }] } } }
- NEW: [no] snmp-server user <s0> { enforcePriv | { [<s1>] { [auth { md5 | sha | sha-224 | sha-256 | sha-384 | sha-512 } <s2> { [priv [des | aes-128] <s3> [{ localizedkey | localizedV2key }] [{ auto | engineID <s4> }] } | { [{ localizedkey1 | localizedV2key1 }] [{ auto1 | engineID1 <s5> }] }] } } | [pwd_type 6 auth { md5 | sha | sha-224 | sha-256 | sha-384 | sha-512 } <s2> { [priv [des | aes-128] <s3> [localizedV2key] [{ auto | engineID <s4> }] } | { [localizedV2key1] [{ auto1 | engineID1 <s5> }] }] } } }
- OLD: [no] time-range <name>
- NEW: [no] time-range <time_range_name>
- OLD: [no] vlan access-map <name> [<seqno>]
- NEW: [no] vlan access-map <vacl-name> [<seqno>]
- OLD: [no] vlan filter <name> { vlan-list <vlans> | vlan-list-include-reserved <vlans-include-reserved> }
- NEW: [no] vlan filter <vacl-name> { vlan-list <vlans> | vlan-list-include-reserved <vlans-include-reserved> }
- OLD: bloggerd log-dump once log-buffer sap <sap> event-history { errors | msgs | { app-specific <uuid> instance <buffer-instance> } }
- NEW: bloggerd log-dump once log-buffer sap <sap> event-history { errors | msgs | { app-specific <uuid> instance <buffer-instance> } | all }
- OLD: bloggerd log-snapshot [<identifier> | time <i0> | size <i1> | [purge threshold <i2>] | [all] | [storage {bootflash | logflash | usb1 | usb2}]]+
- NEW: bloggerd log-snapshot [<identifier> | time <i0> | size <i1> | purge threshold <i2> | all | storage {bootflash | logflash | usb1 | usb2}]+

- OLD: clear bgp event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | peer | nve | prefixes | urib| l2rib | rpki | all}
- NEW: clear bgp event-history { cli | detail | errors | events | logs | msgs | objstore | periodic | sdwrap-errors | peer | nve | prefixes | urib| l2rib | rpki | te | all}
- OLD: clear ip ospf [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | ldp | te | rib | hello | spf-trigger | objstore | segrt | all]
- NEW: clear ip ospf [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | ldp | te | rib | hello | spf-trigger | objstore | segrt | kernel {msg | error} | all]
- OLD: clear mdns-sd cache { mac <mac-addr> | vlan <vlan-id> | all }
- NEW: clear mdns-sd cache { mac <mac-addr> | vlan <vlan-id> | service-peer <sp-ip> | user-role <role> | vrf <vrf-name> | all }
- OLD: clear mpls access-list counters [<name>]
- NEW: clear mpls access-list counters [<mpls_name>]
- OLD: clear vlan access-list counters [<name>]
- NEW: clear vlan access-list counters [<vacl-name>]
- OLD: crypto ca import <s0> pkcs7 <uri0>
- NEW: crypto ca import <s0> pkcs7 <uri0> [force]
- OLD: echo [-e] [<line>]
- NEW: echo [-e|-n] [<line>]
- OLD: history { {buckets-kept <num-buckets-kept>} | {distributions-of-statistics-kept <num-dist-stats>} | {enhanced [interval [<interval-seconds> [buckets <num-buckets>]]]} | {filter {all | failures | none | overThreshold}} | {hours-of-statistics-kept <num-hours-of-stats>} | {lives-kept <life-size-value>} | {statistics-distribution-interval <dist-interval>} }
- NEW: history { {buckets-kept <num-buckets-kept>} | {distributions-of-statistics-kept <num-dist-stats>} | {enhanced interval <interval-seconds> buckets <num-buckets>} | {filter {all | failures | none | overThreshold}} | {hours-of-statistics-kept <num-hours-of-stats>} | {lives-kept <life-size-value>} | {statistics-distribution-interval <dist-interval>} }
- OLD: history { {distributions-of-statistics-kept <num-dist-stats>} | {enhanced [interval [<interval-seconds> [buckets <num-buckets>]]]} | {hours-of-statistics-kept <num-hours-of-stats>} | {statistics-distribution-interval <dist-interval>} }
- NEW: history { {distributions-of-statistics-kept <num-dist-stats>} | {enhanced interval <interval-seconds> buckets <num-buckets>} | {hours-of-statistics-kept <num-hours-of-stats>} | {statistics-distribution-interval <dist-interval>} }
- 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] [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] [non-interruptive] [compact] [override]] }
- OLD: lacp suspend-individual [pxe] | no lacp suspend-individual [pxe]
- NEW: lacp suspend-individual [pxe [<pxe-timeout>]] | no lacp suspend-individual [pxe [<pxe-timeout>]]
- OLD: resequence {{<ip_ipv6_mac_arp> access-list} | time-range} <name> <number> <increment>
- NEW: resequence {{ip access-list <acl-ip-name> | ipv6 access-list <acl-ipv6-name> | mac access-list <acl-mac-name> | arp access-list <name>} | time-range <time_range_name>} <number> <increment>
- 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>] | 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>} | {<actionv6> <actionidv6>}+ | { load-share } }
- 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 | 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>} }+ } } | {<actionv6> <actionidv6>}+ | { load-share } }

```
<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] }
```

- 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_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>} }]+ | [log]
[[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>}]+ [load-share] {<action> <actionid>}]+ [log] }
- NEW: { [<seqno>] | no } <permitdeny> <proto_igmp> { { { <src_any> | {<src_addr><src_wild>} |
<src_prefix> | {src_key_host <src_host>} | {src_key_addrgrp <src_addrgrp_name>} } {<dst_any> |
{<dst_addr><dst_wild>} | <dst_prefix> | {dst_key_host <dst_host>} | {dst_key_addrgrp
<dst_addrgrp_name>} } { [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>]
[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>} }]+
| [log] [[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>] }

- 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>] [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> } }+ } [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] [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> } }+ }+ } [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_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>]} {[<actionv6> <actionidv6>]}+ [load-share]

- 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>] [all] [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>] [all] [packet-length {<plen_op> <plen0> | <plen_range> <plen1> <plen2>}]} {[udf {<udf_name> <udf_val> <udf_mask>+ }]} } {[<actionv6> <actionidv6>]} {[<actionv6> <actionidv6>]}+ [load-share]
- 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_mask>] | <dscp_str> } }} } {[flow-label <flow_num>]} [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] [packet-length {<plen_op> <plen0> | <plen_range> <plen1> <plen2>}]}+ {[udf {<udf_name> <udf_val> <udf_mask>+ }]} } {[nve vni <vnid>] } { { {<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>+ }]}+ {[nve vni <vnid>] } {[<actionv6> <actionidv6>]} {[<actionv6> <actionidv6>]}+ [load-share]
- NEW: { [<seqno>] | no } <permitdeny> <proto_udp> { { { <src_any> | {<src_addr> <src_wild>} | <src_prefix> | {src_key_host <src_host>} | {src_key_addrgrp <src_addrgrp_name>} } } { { {<src_port_op> | <src_port0> | <src_port0_str>}} | {<src_port_range> {<src_port1> | <src_port1_str>} | <src_port2> | <src_port2_str>}} | src_portgroup <src_port_group> } } { <dst_any> | {<dst_addr> <dst_wild>} | <dst_prefix> | {dst_key_host <dst_host>} | {dst_key_addrgrp <dst_addrgrp_name>} } } { { {<dst_port_op> | <dst_port0> | <dst_port0_str>}} | {<dst_port_range> {<dst_port1> | <dst_port1_str>} | <dst_port2> | <dst_port2_str>}} | dst_portgroup <dst_port_group> } } { {{ dscp { <dscp_num> [[dscp-mask] <dscp_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>}]}+ {[udf {<udf_name> <udf_val> <udf_mask>+ }]} } {[nve vni <vnid>] } { { {<src_any> | {<src_addr> <src_wild>} | <src_prefix> | {src_key_host <src_host>} | {src_key_addrgrp <src_addrgrp_name>} } }

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<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]
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[telemetry_path] [time-range <time_range_name>] [all] [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>} ] {[<actionv6><actionidv6>} ]+[load-share]
```

- OLD: { [<seqno>] | no } <permitdeny> { <src_any> | {<src_addr><src_wild>} } { <dst_any> |
{<dst_addr><dst_wild>} } [<mac_proto> | <mac_proto_str>] [vlan <vlan> | cos <cos>]+[time-range
<time_range_name>] [capture session <session-id>] {[<macaction><macactionid>}]+[load-share]
{[<macaction><macactionid>}]+[{ udf {<udf_name><udf_val><udf_mask>+ } }]
- NEW: { [<seqno>] | no } <permitdeny> { <src_any> | {<src_addr><src_wild>} } { <dst_any> |
{<dst_addr><dst_wild>} } [<mac_proto> | <mac_proto_str>] [vlan <vlan> | cos <cos>]+[time-range
<time_range_name>] [capture session <session-id>] {[<macaction><macactionid>}]+[load-share]
{[<macaction><macactionid>}]+[{ udf {<udf_name><udf_val><udf_mask>+ } }] [all]
- 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_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>]+ [load-share] {[<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>] [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] |
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{<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
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{[<action><actionid>}]+[telemetry_queue] | {[<action><actionid>}]+[telemetry_path] [all]
- 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

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

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

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<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>}+ }} [nve vni <vni-id>]} } [vlan <vlanid> | ingress_intf {<intfid> | <intfname>} | vlan_priority <vlanpriorityid>]+ { {[log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length {<plen_op> <plen0> | <plen_range> <plen1> <plen2>} } | {dscp {<dscp_num> [[dscp-mask] <dscp_mask>] | <dscp_str>} } | {ttl <ttl_num>} }+ | {[log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length {<plen_op> <plen0> | <plen_range> <plen1> <plen2>} | {tos {<tos_num> | <tos_str>} } | {precedence {<prec_num> | <prec_str>} } | {ttl <ttl_num>} }+ } [{udf {<udf_name> <udf_val> <udf_mask>}+ }] # 2384
./feature/acl_mngr/cli/aclmgr.cmd [capture session <session-id>] {[<action> <actionid>]}+ [load-share] {[<action> <actionid>]}+ [log]

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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_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_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] | 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] | 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] | 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] | packet-length {<plen_op> <plen0> | <plen_range> <plen1> <plen2>} | {tos {<tos_num> | <tos_str>} } | {precedence {<prec_num> | <prec_str>} } | {ttl <ttl_num>} }+ } [{udf {<udf_name> <udf_val> <udf_mask>}+ }] [vlan <vlanid> | ingress_intf {<intfid> | <intfname>} | vlan_priority <vlanpriorityid>]+ { {[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>} }+ | {[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>}+ }] [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] | 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] | 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>}+ }] [dstmac {<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>} | {<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>]}+ [load-share] {[<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>] [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>]] }

- OLD: { ip community-list standard <name> seq <seq> {permit | deny} {internet | local-AS | no-advertise | no-export | graceful-shutdown | <aann> | <number> | <hex_num>}+ } | { no ip community-list standard <name> seq <seq> [permit | deny] [{internet | local-AS | no-advertise | no-export | graceful-shutdown | <aann> | <number> | <hex_num>}+] }
- NEW: { ip community-list standard <name> seq <seq> {permit | deny} {internet | local-AS | no-advertise | no-export | graceful-shutdown | blackhole | <aann> | <number> | <hex_num>}+ } | { no ip community-list standard <name> seq <seq> [permit | deny] [{internet | local-AS | no-advertise | no-export | graceful-shutdown | blackhole | <aann> | <number> | <hex_num>}+] }
- OLD: { ip community-list standard <name> {permit | deny} {internet | local-AS | no-advertise | no-export | graceful-shutdown | <aann> | <number> | <hex_num>}+ } | { no ip community-list standard <name> [permit | deny] [{internet | local-AS | no-advertise | no-export | graceful-shutdown | <aann> | <number> | <hex_num>}+] }
- NEW: { ip community-list standard <name> {permit | deny} {internet | local-AS | no-advertise | no-export | graceful-shutdown | blackhole | <aann> | <number> | <hex_num>}+ } | { no ip community-list standard <name> [permit | deny] [{internet | local-AS | no-advertise | no-export | graceful-shutdown | blackhole | <aann> | <number> | <hex_num>}+] }
- OLD: { {ip pim {auto-rp rp-candidate | send-rp-announce} {<interface> | <ipaddr>} {group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name>} {[scope <ttl>] | [interval <interval>] | [bidir]}+ } | { no ip pim {auto-rp rp-candidate} | send-rp-announce} [<interface> | <ipaddr>] [group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name>] {[scope <ttl>] | [interval <interval>] | [bidir]} } }
- NEW: { {ip pim {auto-rp rp-candidate | send-rp-announce} {<interface> | <ipaddr>} {group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name>} {[scope <ttl>] | [interval <interval>] | [bidir]}+ } | { no ip pim {auto-rp rp-candidate} | send-rp-announce} [<interface> | <ipaddr>] [group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name>] {[scope <ttl>] | [interval <interval>] | [bidir]}+ } }
- OLD: {set community { none | {additive | internet | local-AS | no-advertise | no-export | graceful-shutdown | <hex_num> | <number> | <community>}+ } } | {no set community [{ none | {additive | internet | local-AS | no-advertise | no-export | graceful-shutdown | <hex_num> | <number> | <community>}+ }] }
- NEW: {set community { none | {additive | internet | local-AS | no-advertise | no-export | graceful-shutdown | blackhole | <hex_num> | <number> | <community>}+ } } | {no set community [{ none | {additive | internet | local-AS | no-advertise | no-export | graceful-shutdown | blackhole | <hex_num> | <number> | <community>}+ }] }
- 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 } }

Deprecated Commands

The following commands are removed in these releases.

- [no] acllog match-log-level <level>
- [no] hardware profile openflow forward-pdu
- [no] key config-key { hex | ascii } [<master-key>]
- [no] keychain <keychain_name> [policy <policy_name>]
- [no] logging ip access-list cache { {entries <num_entries>} | {threshold <num_packets>} }
- [no] logging ip access-list cache { {interval <seconds>} }
- [no] logging ip access-list detailed
- [no] logging ip access-list include sgt
- [no] match <ip_ipv6_mac> address <name>
- [no] network {<ip-dest> <ip-mask> | <ip-prefix>} area {<area-id-ip> | <area-id-int>}
- [no] redistribute { static | direct | amt | lisp | am | hmm | { {eigrp | isis | ospfv3 | rip} <tag>} } route-map <rmap-name>
- clear [<ip_ipv6_mac>] access-list counters [<name>]
- clear logging ip access-list cache
- event-history acllog category all
- event-history acllog category fc2 [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]
- event-history acllog category mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]
- event-history acllog no category all
- event-history acllog no category fc2 [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]
- event-history acllog no category mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]
- intersight connection <name> | no intersight connection
- intersight trustpoint <trustpoint-label> [<host-name>] | no intersight trustpoint
- intersight use-vrf { default | <vrf-cfg-name> } | no intersight use-vrf
- logging level acllog <i0> | no logging level acllog [<i0>]
- switchport fill-pattern { IDLE | ARBFF } speed 8000
- vxlan udp src-port high | no vxlan udp src-port high