N Commands

name-lookup

[no] name-lookup

Syntax Description

no	(Optional) Negate a command or set its defaults
name-lookup	Enable Name Lookup for OSPFv3 Neighbors

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

name-lookup

[no] name-lookup

Syntax Description

no	(Optional) Negate a command or set its defaults
name-lookup	Display OSPF router ids as DNS names

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

name

{ { name-server0 | name-server1 } <ip-addr> | no { name-server0 | name-server1 } [<ip-addr>] }

Syntax Description

no	Negate a command or set its defaults
name-server0	Name server IP Address
name-server1	Name server IP Address
ip-addr	Name server IP Address

Command Mode

- /exec/configure/app-hosting-appid

name

name <name-val> | no name [<name-val>]

Syntax Description

no	Negate a command or set its defaults
name	Set configuration name
name-val	Configuration name

Command Mode

- /exec/configure/spanning-tree/mst/configuration

name

name [<name>] | no name

Syntax Description

no	Negate a command or set its defaults
name	Redundancy name string
name	(Optional) name string

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

name

name <vlan-name> | no name

Syntax Description

no	Negate a command or set its defaults
name	Ascii name of the VLAN
vlan-name	The ascii name for the VLAN

Command Mode

- /exec/configure/vlan

name

{ { name-server0-ipv6 | name-server1-ipv6 } <ipv6-addr> | no { name-server0-ipv6 | name-server1-ipv6 } [<ipv6-addr>] }

Syntax Description

no	Negate a command or set its defaults
name-server0-ipv6	Name server IPv6 Address
name-server1-ipv6	Name server IPv6 Address

Command Mode

- /exec/configure/app-hosting-appid

nat destination

{ nat destination } | { no nat destination }

Syntax Description

no	Negate a command or set its defaults
nat	Network Address Translation
destination	Destination NAT

Command Mode

- /exec/configure/itd

nbm bandwidth unicast

nbm bandwidth unicast <percentage> | no nbm bandwidth unicast

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
bandwidth	percentage of bandwidth set aside other than multicast
unicast	unicast
percentage	percentage value. 0 means no reservation for unicast on this link

Command Mode

- /exec/configure/if-igp

nbm external-link

[no] nbm external-link

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
external-link	link connected to external router. Configuring this will flap the interface

Command Mode

- /exec/configure/if-igp

nbm flow-definition

[no] nbm flow-definition <group> [<source>]

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-definition	Define a multicast flow
group	Multicast Group Address
source	(Optional) Source IP address to use

Command Mode

- /exec/configure

nbm flow-definition

[no] nbm flow-definition <group> [<source>]

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-definition	Define a multicast flow
group	Multicast Group Address
source	(Optional) Source IP address to use

Command Mode

- /exec/configure/nbm-vrf

nbm flow-policy

[no] nbm flow-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-policy	Flow Policy Characteristics

Command Mode

- /exec/configure

nbm flow-policy

[no] nbm flow-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow-policy	Flow Policy Characteristics

Command Mode

- /exec/configure/nbm-vrf

nbm flow asm range

[no] nbm flow asm range <group> +

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
asm	Any-Source Multicast (ASM) groups
range	Configure explicit group ranges
group	List of group range prefixes

Command Mode

- /exec/configure/nbm-vrf

nbm flow asm range

[no] nbm flow asm range <group> +

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
asm	Any-Source Multicast (ASM) groups
range	Configure explicit group ranges
group	List of group range prefixes

Command Mode

- /exec/configure

N Commands

nbm flow bandwidth immediate-recovery

[no] nbm flow bandwidth immediate-recovery

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
immediate-recovery	Free up used BW immediately on last OIF removal

Command Mode

- /exec/configure/nbm-vrf

nbm flow bandwidth immediate-recovery

[no] nbm flow bandwidth immediate-recovery

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
immediate-recovery	Free up used BW immediately on last OIF removal

Command Mode

- /exec/configure

nbm flow bandwidth kbps mbps gbps

{ nbm flow bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { no nbm flow bandwidth }

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
val_kbps	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
val_mbps	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
val_gbps	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps

Command Mode

- /exec/configure

nbm flow bandwidth kbps mbps gbps

{ nbm flow bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { no nbm flow bandwidth }

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
val_kbps	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
val_mbps	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
val_gbps	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps

Command Mode

- /exec/configure/nbm-vrf

nbm flow dscp

{ nbm flow dscp <val_dscp> } | { no nbm flow dscp }

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
dscp	DSCP for the flow
val_dscp	Integer value

Command Mode

- /exec/configure

nbm flow dscp

{ nbm flow dscp <val_dscp> } | { no nbm flow dscp }

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
dscp	DSCP for the flow
val_dscp	Integer value

Command Mode

- /exec/configure/nbm-vrf

nbm flow policer

[no] nbm flow policer

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
policer	Flow rate limiter installed in hardware

Command Mode

- /exec/configure

nbm flow policer

[no] nbm flow policer

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
policer	Flow rate limiter installed in hardware

Command Mode

- /exec/configure/nbm-vrf

nbm flow reserve-bandwidth receiver-only

[no] nbm flow reserve-bandwidth receiver-only

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
reserve-bandwidth	Reserve bandwidth
receiver-only	Configure explicit group ranges to restrict reserve bandwidth on receiver only

Command Mode

- /exec/configure

nbm flow reserve-bandwidth receiver-only

[no] nbm flow reserve-bandwidth receiver-only

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
flow	Flow Characteristics
reserve-bandwidth	Reserve bandwidth
receiver-only	Configure explicit group ranges to restrict reserve bandwidth on receiver only

Command Mode

- /exec/configure/nbm-vrf

nbm host-policy

[no] nbm host-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
host-policy	NBM SW Host Admission Policy

Command Mode

- /exec/configure/nbm-vrf

nbm host-policy

[no] nbm host-policy

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
host-policy	NBM SW Host Admission Policy

Command Mode

- /exec/configure

nbm mode pim

nbm mode { pim-active | pim-passive } | no nbm mode [pim-active | pim-passive] [__readonly__ <output>]

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
mode	Set pmn mode
pim-active	Bandwidth engine running in fabric
pim-passive	API driven flow stitching
__readonly__	(Optional)
output	(Optional)

Command Mode

- /exec/configure /exec/configure/nbm-vrf

nbm reserve unicast fabric bandwidth

nbm reserve unicast fabric bandwidth <percentage> | no nbm reserve unicast fabric bandwidth

Syntax Description

no	Negate a command or set its defaults
nbm	Non Blocking Multicast
reserve	reserve bandwidth
unicast	unicast
fabric	fabric
bandwidth	percentage of bandwidth for unicast flow
percentage	percentage value

Command Mode

- /exec/configure /exec/configure/nbm-vrf

nbm vrf

[no] nbm vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
vrf	Display per-VRF information
vrf-name	VRF name

Command Mode

- /exec/configure

nbm vrf default

[no] nbm vrf default

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
vrf	Display per-VRF information
default	Default VRF

Command Mode

- /exec/configure /exec/configure/nbm-vrf

negotiate auto

negotiate auto | no negotiate auto

Syntax Description

no	Negate a command or set its defaults
negotiate	Configure link negotiation parameters
auto	Configure auto-negotiation

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

negotiate auto 25000

[no] negotiate auto 25000

Syntax Description

no	(Optional) Negate a command or set its defaults
negotiate	Configure link negotiation parameters
auto	Configure auto-negotiation
25000	Force auto-negotiate to only 25000 and change fec to auto

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

neighbor-down fib-accelerate

[no] neighbor-down fib-accelerate

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor-down	Handle BGP neighbor down event, due to various reasons
fib-accelerate	Accelerate the hardware updates for IP/IPv6 adjacencies for neighbor

Command Mode

- /exec/configure/router-bgp/vrf-cmds

neighbor

neighbor [vrf { <vrf-name> | <vrf-known-name> }] <ipaddr> { implicit-withdraw | labels accept <pfx-list> | targeted } | no neighbor [vrf { <vrf-name> | <vrf-known-name> }] <ipaddr> [implicit-withdraw | labels accept | targeted]

Syntax Description

no	Negate a command or set its defaults
neighbor	Configure neighbor parameters
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
ipaddr	IP address for LDP neighbor
implicit-withdraw	Enable LDP Implicit Withdraw Label
labels	Configure label binding exchange controls
accept	Specify label bindings to accept
pfx-list	Name of prefix list
targeted	Establish targeted session

Command Mode

- /exec/configure/ldp

neighbor

[no] neighbor { <neighbor-id> | <ipv6-neighbor-id> } [remote-as { <asn> | external | internal }]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
neighbor-id	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
external	(Optional) eBGP session type
internal	(Optional) iBGP session type

Command Mode

- /exec/configure/router-bgp

neighbor

[no] neighbor { <neighbor-id> | <ipv6-neighbor-id> } [remote-as { <asn> | external | internal }]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
neighbor-id	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
external	(Optional) eBGP session type
internal	(Optional) iBGP session type

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

neighbor

[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [remote-as [{ <asn> | external | internal } | route-map <rmap-name>]]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
neighbor-prefix	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
external	(Optional) eBGP session type
internal	(Optional) iBGP session type
route-map	(Optional) Route-map to match prefix peer AS number
rmap-name	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp

neighbor

[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [remote-as [{ <asn> | external | internal } | route-map <rmap-name>]]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
neighbor-prefix	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
external	(Optional) eBGP session type
internal	(Optional) iBGP session type
route-map	(Optional) Route-map to match prefix peer AS number
rmap-name	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

neighbor

[no] neighbor <interface> [remote-as [{ <asn> | external | internal } | route-map <rmap-name>]]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
interface	Interface name for BGP interface peering
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
external	(Optional) eBGP session type
internal	(Optional) iBGP session type
route-map	(Optional) Route-map to match interface peer AS number
rmap-name	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp

neighbor

[no] neighbor <interface> [remote-as [{ <asn> | external | internal } | route-map <rmap-name>]]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
interface	Interface name for BGP interface peering
remote-as	(Optional) Specify Autonomous System Number of the neighbor
asn	(Optional) Autonomous System Number
external	(Optional) eBGP session type
internal	(Optional) iBGP session type
route-map	(Optional) Route-map to match interface peer AS number
rmap-name	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

N Commands

nemo config address port interval

nemo config address port interval

[no] nemo config address <ip_address> port <portnum> interval <interval-num>

Syntax Description

no	(Optional) Negate a command or set its defaults
nemo	Nemo switch onboarding enabler
config	Configure Nemo for switch onboarding
address	IP address of the Nemo platform
ip_address	IP Address
port	Port number of the Nemo platform
portnum	Port number
interval	Config interval in millisecond
interval-num	Config interval in millisecond

Command Mode

- /exec/configure

N Commands

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net

[no] net <net>

Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
net	NET in form of XX.XXXX. ... .XXXX[.00]

Command Mode

- /exec/configure/otv-isis

net

[no] net <net>

Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
net	NET in form of XX.XXXX. ... .XXXX[.00]

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

network

[no] network <ipv6-prefix> [route-map <rmap-name> | summarize] +

Syntax Description

no	(Optional) Negate a command or set its defaults
network	Configure an IPv6 prefix to advertise
route-map	(Optional) Apply route-map to modify attributes
rmap-name	(Optional) Route-map name
summarize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

network

[no] network { <ip-addr> mask <ip-mask> | <ip-prefix> } [route-map <rmap-name> | summarize | evpn] +

Syntax Description

no	(Optional) Negate a command or set its defaults
network	Configure an IP prefix to advertise
ip-addr	IP network to advertise
mask	Configure the mask of the IP prefix to advertise
ip-mask	Dotted 4-octet mask
ip-prefix	IP prefix in CIDR format
route-map	(Optional) Apply route-map to modify attributes
rmap-name	(Optional) Route-map name
summarize	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
evpn	(Optional) Only advertise route towards evpn side

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

next-hop-self

[no | default] next-hop-self [all]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our address as nexthop (non-reflected)
all	(Optional) Set our address as nexthop for all routes

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
  /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
  /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
  /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
  /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

next-hop-third-party

[no | default] next-hop-third-party

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-third-party	Compute a third-party nexthop if possible

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
  /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
  /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

nexthop route-map

[no] nexthop route-map <rmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
nexthop	Nexthop tracking
route-map	Route map for valid nexthops
rmap-name	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn /exec/configure/router-bgp/router-bgp-af-link-state /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn /exec/configure/router-bgp/router-bgp-af-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls

nexthop suppress-default-resolution

[no] nexthop suppress-default-resolution

Syntax Description

no	(Optional) Negate a command or set its defaults
nexthop	Nexthop resolution options
suppress-default-resolution	Prohibit use of default route for nexthop address resolution

Command Mode

- /exec/configure/router-bgp

nexthop trigger-delay critical non-critical

{ nexthop trigger-delay critical <criticaldelay> non-critical <noncriticaldelay> } | { no nexthop trigger-delay }

Syntax Description

no	Negate a command or set its defaults
nexthop	Nexthop tracking
trigger-delay	Set the delay to trigger nexthop tracking
critical	Nexthop changes affecting reachability
non-critical	Other nexthop changes
noncriticaldelay	Delay value (miliseconds)
criticaldelay	Delay value (miliseconds)

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-vpnv4 /exec/configure/router-bgp/router-bgp-af-vpnv6 /exec/configure/router-bgp/router-bgp-af-link-state /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

ngoam authentication-key

{ ngoam authentication-key <value> } | { no ngoam authentication-key [<value>] }

Syntax Description

no	Negate a command or set its defaults
ngoam	Configure ngoam
authentication-key	Ngoam authentication-key
value	authentication key

Command Mode

- /exec/configure

ngoam connect-check

[no] ngoam connect-check <id>

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam
connect-check	Configure ngoam oam connectivity check
id	connect check id

Command Mode

- /exec/configure

ngoam install acl

[no] ngoam install acl

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam
install	Ngoam install
acl	Ngoam install acl

Command Mode

- /exec/configure

ngoam loop-detection

[no] ngoam loop-detection

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam
loop-detection	Configure Loop Detection

Command Mode

- /exec/configure

ngoam loop-detection bringup vlan

ngoam loop-detection bringup { vlan <vlan-range> } [port <port-range>]

Syntax Description

ngoam	Configure ngoam
loop-detection	Configure Loop Detection
bringup	Bringup the ports,if disabled
vlan	Vlan
port	(Optional) Ports to bringup if disabled
vlan-range	vlan range max span 1024, Example: 2000-3000,400,500
port-range	(Optional) Interface for loop detection

Command Mode

- /exec

ngoam loop-detection probe vlan

ngoam loop-detection probe { vlan <vlan-range> } [port <port-range>]

Syntax Description

ngoam	Configure ngoam
loop-detection	Configure Loop Detection
probe	Probe for loop detection
vlan	Start probing on vlan for loop detection
port	(Optional) start probing on port for loop detection
vlan-range	vlan range max span 1024, Example: 2000-3000,400,500
port-range	(Optional) Interface for loop detection

Command Mode

- /exec

ngoam profile

[no] ngoam profile <profile-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam
profile	Configure ngoam oam profile
profile-id	ngoam profile id

Command Mode

- /exec/configure

ngoam xconnect hb-interval

{ ngoam xconnect hb-interval <ms> } | { no ngoam xconnect hb-interval [<ms>] }

Syntax Description

no	Negate a command or set its defaults
ngoam	Configure ngoam
xconnect	Configure xconnect parameters
hb-interval	Configure xconnect heartbeat interval
ms	interval in ms, 3 failures triggers failure default is 190

Command Mode

- /exec/configure

no-more

| no-more

Syntax Description

		Pipe command output to filter
no-more	Turn-off pagination for command output

Command Mode

- /output

no

[no] { userprofile | trustedCert | CRLLookup | user-switch-bind | user-certdn-match | user-pubkey-match }

Syntax Description

no	Negate a command or set its defaults
userprofile	Delete the userprofile
trustedCert	Delete the trustedCert
CRLLookup	Delete the CRLLookup
user-switch-bind	Delete the user-switch-bind
user-certdn-match	Delete the certificate matching
user-pubkey-match	Delete the pubkey matching

Command Mode

- /exec/configure/ldap/search

no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
seqno	Sequence number

Command Mode

- /exec/configure/arpacl /exec/configure/ipgroup /exec/configure/ipv6group /exec/configure/portgroup /exec/configure/timerange

no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
seqno	Sequence number

Command Mode

- /exec/configure/macacl

no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
seqno	Sequence number

Command Mode

- /exec/configure/mplsacl

no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
seqno	Sequence number

Command Mode

• /exec/configure/ipacl /exec/configure/ipv6acl

no

no

{ [<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]

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
ethertypeid	Configure the ethertype value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
ip	Any IP protocol
proto	A protocol number
ip_other_proto	ip_other_proto
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits

src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range

no

time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
action	(Optional) Action
actionid	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

- /exec/configure/ipacl

no

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

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
ethertypeid	Configure the ethertype value

no

vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
proto_tcp	Protocol
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) TCP port
src_port1	(Optional) Port number
src_port1_str	(Optional) TCP port
src_port2	(Optional) Port number
src_port2_str	(Optional) TCP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address

dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) TCP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) TCP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) TCP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name

packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
tcp-option-length	(Optional) Specify TCP Options size
tcp_opt_len	(Optional) TCP option length (multiples of 4 bytes)
tcp-flags-mask	(Optional) Specify TCP Flags
tcp_flags_mask	(Optional) TCP flags mask
http-method	(Optional) Match packets based on http-method
opt_num	(Optional) http_option value
opt_str	(Optional) http_option_param
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
urg	(Optional) Match on the URG bit
ack	(Optional) Match on the ACK bit
psh	(Optional) Match on the PSH bit
rst	(Optional) Match on the RST bit
syn	(Optional) Match on the SYN bit
fin	(Optional) Match on the FIN bit
established	(Optional) Match established connections
udf	(Optional) User defined field match

udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

- /exec/configure/ipacl

no

no

{ [<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> <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_mgr/cli/aclmgr.cmd [capture session <session-id>] { [<action> <actionid>] } + [load-share] { [<action> <actionid>] } + [log]

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
ethertypeid	Configure the ethertype value
vlanid	(Optional) VLAN number

intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
proto_udp	Protocol
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) UDP port
src_port1	(Optional) Port number
src_port1_str	(Optional) UDP port
src_port2	(Optional) Port number
src_port2_str	(Optional) UDP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group

dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) UDP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) UDP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) UDP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length

plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
nve	(Optional) VNI ID <0-16777215>
vni	(Optional) VNI ID <0-16777215>
vni-id	(Optional) VNI ID <0-16777215>
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

- /exec/configure/ipacl

no

{ [<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> } } | { ttl <ttl_num> }] } + | { { [[fragments] | [log] [telemetry_queue] [telemetry_path] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + } } [capture session <session-id>] { [<action> <actionid>] } + [load-share] { [<action> <actionid>] } + [log] }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_igmp	Protocol
src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
dst_any	Any
dst_addr	Destination network address

dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length

no

ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
igmp_num	(Optional) IGMPv1 message type
igmp_str	(Optional) IGMP type
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

- /exec/configure/ipacl

no

{ [<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] }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
ethertypeid	Configure the ethertype value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
proto_icmp	Protocol

no

src_any	Any
src_addr	Source network address
src_wild	Source wildcard bits
src_prefix	Source network prefix
src_key_host	A single source host
src_host	Source address
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
dst_any	Any
dst_addr	Destination network address
dst_wild	Destination wildcard bits
dst_prefix	Destination network prefix
dst_key_host	A single destination host
dst_host	Destination address
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
tos	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_num	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
tos_str	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
precedence	(Optional) Match packets with given precedence value
prec_num	(Optional) Precedence value
prec_str	(Optional) Precedence label
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry

telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
ttl_num	(Optional)
icmp_type	(Optional) ICMP message type
icmp_code	(Optional) ICMP message code
icmp_str	(Optional) ICMP label
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
action	(Optional) Action
actionid	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share among the ports specified in redirect list

Command Mode

- /exec/configure/ipacl

no

{ [<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>] [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> } + } }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
ipv6	Any IPV6 protocol
proto	A protocol number
ipv6_other_proto	ipv6_other_proto
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any
src_key_host	A single source host
src_key_addrgrp	Source address group

src_addrgrp_name	Address group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
actionv6	(Optional) ActionV6

no

| *actionidv6* | (Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1 |
| load-share | (Optional) load share amoung the ports specified in redirect list |

Command Mode

- /exec/configure/ipv6acl

no

{ [<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]

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_tcp	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority

no

src_any	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) TCP port
src_port1	(Optional) Port number
src_port1_str	(Optional) TCP port
src_port2	(Optional) Port number
src_port2_str	(Optional) TCP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) TCP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) TCP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) TCP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value and Mask

dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
tcp-flags-mask	Specify TCP Flags
tcp_flags_mask	TCP flags mask
urg	(Optional) Match on the URG bit
ack	(Optional) Match on the ACK bit
psh	(Optional) Match on the PSH bit
rst	(Optional) Match on the RST bit
syn	(Optional) Match on the SYN bit
fin	(Optional) Match on the FIN bit
established	(Optional) Match established connections
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session

no

session-id	(Optional) Session ID <1-48> for this session
actionv6	(Optional) ActionV6
actionidv6	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

- /exec/configure/ipv6acl

no

{ [<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 <vni-id>] | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { [{ dscp { <dscp_num> [[dscp-mask] <dscp_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 <vni-id>] [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] { [<actionv6> <actionidv6>] } { [<actionv6> <actionidv6>] } + [load-share]

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_udp	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority

src_any	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) UDP port
src_port1	(Optional) Port number
src_port1_str	(Optional) UDP port
src_port2	(Optional) Port number
src_port2_str	(Optional) UDP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) UDP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) UDP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) UDP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value and Mask

dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
nve	(Optional) VNI ID <0-16777215>
vni	(Optional) VNI ID <0-16777215>
vni-id	(Optional) VNI ID <0-16777215>
actionv6	(Optional) ActionV6
actionidv6	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

no

- /exec/configure/ipv6acl

no

{ [<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> }] [{ udf { <udf_name> <udf_val> <udf_mask> } +] } } + } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>] + [capture session <session-id>] }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_sctp	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any
src_key_host	A single source host

src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
src_port_op	(Optional) Port operator
src_port_range	(Optional) Port range
src_port0	(Optional) Port number
src_port0_str	(Optional) SCTP port
src_port1	(Optional) Port number
src_port1_str	(Optional) SCTP port
src_port2	(Optional) Port number
src_port2_str	(Optional) SCTP port
src_portgroup	(Optional) src port group
src_port_group	(Optional) Port group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dst_port_op	(Optional) Port operator
dst_port_range	(Optional) Port range
dst_port0	(Optional) Port number
dst_port0_str	(Optional) SCTP port
dst_port1	(Optional) Port number
dst_port1_str	(Optional) SCTP port
dst_port2	(Optional) Port number
dst_port2_str	(Optional) SCTP port
dst_portgroup	(Optional) dst port group
dst_port_group	(Optional) Port group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value

dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session

Command Mode

- /exec/configure/ipv6acl

no

no

{ [<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] }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
proto_icmpv6	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
vlanid	(Optional) VLAN number
intfid	(Optional) Interface index
intfname	(Optional) Interface name
vlanpriorityid	(Optional) Vlan Priority
src_any	Any

src_key_host	A single source host
src_key_addrgrp	Source address group
src_addrgrp_name	Address group name
dst_any	Any
dst_key_host	A single destination host
dst_key_addrgrp	Destination address group
dst_addrgrp_name	Address group name
dscp	(Optional) Match packets with given dscp value and Mask
dscp-mask	(Optional) DSCP wildcard Mask
dscp_num	(Optional) Differentiated services codepoint value
dscp_mask	(Optional) Differentiated services codepoint mask - 0 to 0x3F
dscp_str	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
flow_num	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
telemetry_queue	(Optional) Flow of interest for BDC/HDC
telemetry_path	(Optional) IPT enabled
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
plen_op	(Optional) Packet-length operator
plen_range	(Optional) Packet-length range
plen0	(Optional) Packet length
plen1	(Optional) Lower packet length
plen2	(Optional) Higher packet length
icmpv6_type	(Optional) ICMPv6 message type
icmpv6_code	(Optional) ICMPv6 message code
icmpv6_str	(Optional) ICMPv6 label

no

capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
actionv6	(Optional) ActionV6
actionidv6	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535> redirect_all: Ethernet1/1,port-channel1
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

- /exec/configure/ipv6acl

no

{ [<seqno>] | no } { <addr> <wild> | <prefix> | host <hostaddr> }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
addr	A.B.C.D Network address of object-group member
wild	A.B.C.D wildcard
prefix	A.B.C.D/nn Network prefix of the object-group member
host	Host address of the object-group member
hostaddr	A.B.C.D Host address

Command Mode

- /exec/configure/ipgroup

no

{ [<seqno>] | no } { <addr> <wild> | <prefix> | host <hostaddr> }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
host	Host address of the object-group member

Command Mode

- /exec/configure/ipv6group

no

{ [<seqno>] | no } { <_port_op> <port0_num> | <_port_range> <port1_num> <port2_num> }

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
_port_op	Port operator
_port_range	Port range
port0_num	Port number
port1_num	Port number
port2_num	Port number

Command Mode

- /exec/configure/portgroup

no

{ [<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> } + }]

Syntax Description

seqno	(Optional) Sequence number
no	Negate a command or set its defaults
permitdeny	Permit/deny
src_any	Any
src_addr	Source MAC address
src_wild	Source wildcard bits
dst_any	Any
dst_addr	Destination MAC address
dst_wild	Destination wildcard bits
mac_proto	(Optional) MAC protocol number
mac_proto_str	(Optional) MAC protocol name
vlan	(Optional) VLAN number
cos	(Optional) CoS value
vlan	(Optional) VLAN number
cos	(Optional) CoS value
time-range	(Optional) Specify a time range
time_range_name	(Optional) Time range name
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
session-id	(Optional) Session ID <1-48> for this session
macaction	(Optional) MAC ACL Action
macactionid	(Optional) redirect: Ethernet1/1,port-channel1
udf	(Optional) User defined field match

udf_name	(Optional) UDF name
udf_val	(Optional) UDF value to match
udf_mask	(Optional) Mask to apply to UDF value
load-share	(Optional) load share amoung the ports specified in redirect list

Command Mode

- /exec/configure/macacl

no

no

Syntax Description

no	Negate a command or set its defaults

Command Mode

- /exec/configure/vsan-db

node ip

[no] node { ip <ip-addr> | IPv6 <ip-addrv6> }

Syntax Description

no	(Optional) Negate a command or set its defaults
node	ITD node
ip	ITD node IPv4 address
ip-addr	ITD node IP4 prefix in format i.i.i.i
IPv6	ITD node IPv6 address

Command Mode

- /exec/configure/itd-session-device-group

node ip

[no] node { ip <ip-addr> | IPv6 <ip-addrv6> }

Syntax Description

no	(Optional) Negate a command or set its defaults
node	ITD node
ip	ITD node IPv4 address
ip-addr	ITD node IP4 prefix in format i.i.i.i
IPv6	ITD node IPv6 address

Command Mode

- /exec/configure/itd-device-group

npv auto-load-balance disruptive

[no] npv auto-load-balance disruptive

Syntax Description

no	(Optional) Negate a command or set its defaults
npv	Config commands for FC N_port Virtualizer
auto-load-balance	configure auto load balancing among preferred external links
disruptive	enable disruptive auto load balancing among external links

Command Mode

- /exec/configure

npv traffic-map server-interface external-interface

[no] npv traffic-map server-interface <if1> external-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
npv	Config commands for FC N_port Virtualizer
traffic-map	Configure NPV traffic engineering
server-interface	Configure server interface based traffic engineering
if1	
external-interface	Configure preferred external interface(s)
interface	

Command Mode

- /exec/configure

nsf await-redist-proto-convergence

{ [no] nsf await-redist-proto-convergence }

Syntax Description

no	(Optional) Negate a command or set its defaults
nsf	Non-stop forwarding
await-redist-proto-convergence	Specify whether EIGRP should wait for other protocols to converge before advertising routes

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

N Commands

ntp access-group

[no] ntp access-group { peer | serve-only | serve | query-only } <acl-name>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
access-group	NTP access-group
peer	access-group peer
serve	access-group serve
serve-only	access-group serve-only
query-only	access-group query-only
acl-name	Name of access list

Command Mode

- /exec/configure

ntp access-group match-all

[no] ntp access-group match-all

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
access-group	NTP access-group
match-all	Scan ACLs present in all ntp access groups

Command Mode

- /exec/configure

ntp allow private

[no] ntp allow { private | control [rate-limit <delay>] }

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
allow	Enable/Disable the packets
private	Enable/Disable Private mode packets
control	Enable/Disable Control mode packets
rate-limit	(Optional) Rate-limit the control packets
delay	(Optional) Rate-limit delay (Default 3)

Command Mode

- /exec/configure

ntp authenticate

[no] ntp authenticate

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
authenticate	Enable/Disable authentication

Command Mode

- /exec/configure

ntp authentication-key md5

[no] ntp authentication-key <number> md5 <md5> [0 | 7]

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
authentication-key	NTP authentication key
number	authentication key number (range 1-65535)
md5	use md5 authentication scheme
md5	MD5 string
0	(Optional) clear text
7	(Optional) encrypted

Command Mode

- /exec/configure

ntp logging

[no] ntp logging

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
logging	Enable/Disable logging of NTPD Events

Command Mode

- /exec/configure

ntp master

[no] ntp master [<stratum-no>]

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
master	Act as NTP master clock
stratum-no	(Optional) Stratum number

Command Mode

- /exec/configure

ntp passive

[no] ntp passive

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
passive	NTP passive command

Command Mode

- /exec/configure

ntp peer

[no] ntp peer <host0> [prefer | key <keyid> | use-vrf { <vrf-name> | <vrf-known-name> } | minpoll <minpoll> | maxpoll <maxpoll>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
peer	NTP Peer address
host0	Hostname/IP address of the NTP Peer
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
keyid	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a peer
minpoll	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a peer
maxpoll	(Optional) Poll interval in secs to a power of 2 [default 6]

Command Mode

- /exec/configure

ntp server

[no] ntp server <host0> [prefer | key <keyid> | use-vrf { <vrf-name> | <vrf-known-name> } | minpoll <minpoll> | maxpoll <maxpoll>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
server	NTP server address
host0	Hostname/IP address of the NTP Server
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
keyid	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a server
minpoll	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a server
maxpoll	(Optional) Poll interval in secs to a power of 2 [default 6]

Command Mode

- /exec/configure

ntp source-interface

[no] ntp source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
source-interface	Source interface sending NTP packets
interface	Source interface

Command Mode

- /exec/configure

ntp source

[no] ntp source <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP Configuration
source	Source of NTP packets
ip-addr	IPv4/IPv6 address

Command Mode

- /exec/configure

ntp sync-retry

ntp sync-retry

Syntax Description

ntp	NTP configuration
sync-retry	Retry synchronization with configured servers

Command Mode

- /exec

ntp trusted-key

[no] ntp trusted-key <number>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
trusted-key	NTP trusted-key
number	trusted-key number

Command Mode

  • /exec/configure

nv overlay evpn

[no] nv overlay evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
nv	Command to enable/disable features
overlay	Command to enable/disable features
evpn	Enable/Disable Ethernet VPN (EVPN)

Command Mode

- /exec/configure

N Commands

nve interface remap-replication-servers

nve interface remap-replication-servers

nve interface <nve-if> remap-replication-servers

Syntax Description

nve	Configure NVE information
interface	Interface
nve-if	NVE interface
remap-replication-servers	Remap Replication servers to VNIs

Command Mode

- /exec

nve interface replication-server up

nve interface <nve-if> replication-server <rep-addr> { up | down }

Syntax Description

nve	Configure NVE information
interface	Interface
nve-if	NVE interface
replication-server	Configure a replication server
rep-addr	Replication Server IP Address
up	mark replication-server up
down	mark replication-server down

Command Mode

- /exec

nve oam mode draft-pang

[no] nve oam mode draft-pang

Syntax Description

no	(Optional) Negate a command or set its defaults
nve	VxLAN functionality
oam	VxLAN OAM functionality
mode	Choose operation mode for OAM
draft-pang	OAM implementation as per Draft Pang

Command Mode

- /exec/configure

nwwn

[no] nwwn <wwn0>

Syntax Description

no	(Optional) Negate a command or set its defaults
nwwn	Node WWN of the platform
wwn0	Node WWN

Command Mode

- /exec/configure/fcs-register/attrib

nwwn vsan

[no] nwwn <wwn0> vsan <i1>

Syntax Description

no	(Optional) Negate a command or set its defaults
nwwn	Device NWWN
wwn0	NWWN of the Device
vsan	VSAN id for device
i1	vsan id

Command Mode

- /exec/configure/dpvm-db

nxapi certificate httpskey keyfile

{ nxapi certificate { { httpskey { keyfile <uri0> [password <passphrase>] } } } | { httpscrt { certfile <uri1> } } | { enable } | { trustpoint <trustpoint-name> } | { sudi } } } | { no nxapi certificate { sudi | trustpoint <trustpoint-name> } }

Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
certificate	Https certificate configuration
httpskey	Https private key
httpscrt	Https certificate
keyfile	Https key file
certfile	Https certificate file
password	(Optional) Https encrypted key passphrase
enable	Enable the current certificate
trustpoint	Trustpoint configuration
trustpoint-name	trustpoint name to use for Identity
sudi	sudi configuration
uri0	File containing https private key for the user
passphrase	(Optional) Https encrypted private key passphrase
uri1	File containing https certificate

Command Mode

- /exec/configure

nxapi client certificate authentication

{ nxapi client certificate authentication [<verification-setting>] } | { no nxapi client certificate authentication }

Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
client	Configure NX-API client management properties
certificate	Configure NX-API client certificate authentication functionality
authentication	Enable/Disable client certificate authentication
verification-setting	(Optional) Configure nxapi client-certificate authentication verification restriction setting

Command Mode

- /exec/configure

nxapi http port

{ nxapi { http | https } port <s0> } | { no nxapi { http | https } } | { no nxapi { http | https } port <s0> }

Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
http	Http configuration
https	Https configuration
port	Port number
s0	Port number. Please do not use well-known protocol ports

Command Mode

- /exec/configure

nxapi idle-timeout

[no] nxapi idle-timeout <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
nxapi	Configure nxapi
idle-timeout	duration until idle session expires
i0	Length of time, in minutes

Command Mode

- /exec/configure

nxapi ssl ciphers weak

{ [no] nxapi ssl ciphers weak }

Syntax Description

no	(Optional) Negate a command or set its defaults
nxapi	Configure nxapi
ssl	Configure ssl parameters
ciphers	Configure allowed ciphers for ssl
weak	Allow weak ciphers

Command Mode

- /exec/configure

nxapi ssl protocols

{ nxapi ssl protocols <prot_string> } | { no nxapi ssl protocols }

Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
ssl	Configure ssl parameters
protocols	Configure allowed ssl protocols
prot_string	String of supported protocols, Ex: TLSv1 TLSv1.1 TLSv1.2

Command Mode

• /exec/configure

nxapi use-vrf management default

{ nxapi use-vrf { management | default | <vrf_name> } } | { no nxapi use-vrf { management | default | <vrf_name> } }

Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
use-vrf	vrf to be used for nxapi communication
management	management vrf
default	default vrf
vrf_name	name of the vrf

Command Mode

- /exec/configure

nxsdk profile

[no] nxsdk profile <nxsdk-profile-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
nxsdk	NXOS SDK
profile	service profile
nxsdk-profile-name	NxSDK service profile name

Command Mode

- /exec/configure

N Commands

nxsdk remote port

nxsdk remote port

[no] nxsdk remote port <port> [namespace { <vrf-name> | <vrf-known-name> }] [certificate <cert-id>]

Syntax Description

no	(Optional) Negate a command or set its defaults
nxsdk	NXOS SDK
remote	To run NX-SDK service as a remote service
port	Port to accept remote NX-SDK connections
port	Port
namespace	(Optional) Namespace to run the remote server on. Default is Vrf: Default
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
certificate	(Optional) Specify certificate id to be used for the remote session
cert-id	(Optional) Certificate identification

Command Mode

- /exec/configure

N Commands

nxsdk service-name

[no] nxsdk service-name <nxsdk-service-name> [profile <nxsdk-profile-name>]

Syntax Description

nxsdk	NXOS SDK
service-name	Complete path and name of file to execute
nxsdk-service-name	Service name
profile	(Optional) Service profile
nxsdk-profile-name	(Optional) Name of the profile

Command Mode

- /exec/configure