



## N Commands

---

- [name-lookup](#), on page 4
- [name-lookup](#), on page 5
- [name](#), on page 6
- [name](#), on page 7
- [name](#), on page 8
- [nat destination](#), on page 9
- [nbm bandwidth unicast](#), on page 10
- [nbm external-link](#), on page 11
- [nbm flow-definition](#), on page 12
- [nbm flow-definition](#), on page 13
- [nbm flow-policy](#), on page 14
- [nbm flow-policy](#), on page 15
- [nbm flow asm range](#), on page 16
- [nbm flow asm range](#), on page 17
- [nbm flow bandwidth immediate-recovery](#), on page 18
- [nbm flow bandwidth immediate-recovery](#), on page 19
- [nbm flow bandwidth kbps mbps gbps](#), on page 20
- [nbm flow bandwidth kbps mbps gbps](#), on page 21
- [nbm flow dscp](#), on page 22
- [nbm flow dscp](#), on page 23
- [nbm flow policer](#), on page 24
- [nbm flow policer](#), on page 25
- [nbm flow reserve-bandwidth receiver-only](#), on page 26
- [nbm flow reserve-bandwidth receiver-only](#), on page 27
- [nbm host-policy](#), on page 28
- [nbm host-policy](#), on page 29
- [nbm mode pim](#), on page 30
- [nbm reserve unicast fabric bandwidth](#), on page 31
- [nbm vrf](#), on page 32
- [nbm vrf default](#), on page 33
- [negotiate auto](#), on page 34
- [negotiate auto 25000](#), on page 35
- [neighbor-down fib-accelerate](#), on page 36

- neighbor, on page 37
- neighbor, on page 38
- neighbor, on page 39
- neighbor, on page 40
- neighbor, on page 41
- neighbor, on page 42
- neighbor, on page 43
- nemo config address port interval, on page 44
- net, on page 45
- net, on page 46
- network, on page 47
- network, on page 48
- next-hop-self, on page 49
- next-hop-third-party, on page 50
- nexthop route-map, on page 51
- nexthop suppress-default-resolution, on page 52
- nexthop trigger-delay critical non-critical, on page 53
- ngoam authentication-key, on page 54
- ngoam connect-check, on page 55
- ngoam install acl, on page 56
- ngoam loop-detection, on page 57
- ngoam loop-detection bringup vlan, on page 58
- ngoam loop-detection probe vlan, on page 59
- ngoam profile, on page 60
- ngoam xconnect hb-interval, on page 61
- no-more, on page 62
- no, on page 63
- no, on page 66
- no, on page 67
- no, on page 68
- no, on page 69
- no, on page 70
- no, on page 73
- no, on page 78
- no, on page 82
- no, on page 85
- no, on page 88
- no, on page 92
- no, on page 95
- no, on page 98
- no, on page 101
- no, on page 102
- no, on page 103
- no, on page 104
- no, on page 106
- no, on page 107

- [node ip](#), on page 108
- [node ip](#), on page 109
- [npv auto-load-balance disruptive](#), on page 110
- [npv traffic-map server-interface external-interface](#), on page 111
- [nsf await-redis-proto-convergence](#), on page 112
- [ntp access-group](#), on page 113
- [ntp access-group match-all](#), on page 114
- [ntp allow private](#), on page 115
- [ntp authenticate](#), on page 116
- [ntp authentication-key md5](#), on page 117
- [ntp logging](#), on page 118
- [ntp master](#), on page 119
- [ntp passive](#), on page 120
- [ntp peer](#), on page 121
- [ntp server](#), on page 122
- [ntp source-interface](#), on page 123
- [ntp source](#), on page 124
- [ntp sync-retry](#), on page 125
- [ntp trusted-key](#), on page 126
- [nv overlay evpn](#), on page 127
- [nve interface remap-replication-servers](#), on page 128
- [nve interface replication-server up](#), on page 129
- [nve oam mode draft-pang](#), on page 130
- [nwwn](#), on page 131
- [nwwn vsan](#), on page 132
- [nxapi certificate](#), on page 133
- [nxapi client certificate authentication](#), on page 134
- [nxapi http port](#), on page 135
- [nxapi idle-timeout](#), on page 136
- [nxapi ssl ciphers weak](#), on page 137
- [nxapi ssl protocols](#), on page 138
- [nxapi use-vrf management default](#), on page 139
- [nxsdk profile](#), on page 140
- [nxsdk remote port](#), on page 141
- [nxsdk service-name](#), on page 142

# 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-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

name [ <name> ] | no name

## Syntax Description

no	Negate a command or set its defaults
name	Redundancy name string
<i>name</i>	(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
<i>vlan-name</i>	The ascii name for the VLAN

## Command Mode

- /exec/configure/vlan

# name

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

## Syntax Description

no	Negate a command or set its defaults
name	Set configuration name
<i>name-val</i>	Configuration name

## Command Mode

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



# 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
<i>percentage</i>	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
<i>group</i>	Multicast Group Address
<i>source</i>	(Optional) Source IP address to use

### Command Mode

- /exec/configure/nbm-vrf

# 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
<i>group</i>	Multicast Group Address
<i>source</i>	(Optional) Source IP address to use

## 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-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 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
<i>group</i>	List of group range prefixes

### Command Mode

- /exec/configure



# 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
<i>group</i>	List of group range prefixes

## 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 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 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
<i>val_kbps</i>	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
<i>val_mbps</i>	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
<i>val_gbps</i>	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
<i>val_kbps</i>	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
<i>val_mbps</i>	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
<i>val_gbps</i>	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
<i>val_dscp</i>	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
<i>val_dscp</i>	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 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 mode pim

nbm mode { pim-active | pim-passive } [ \_\_readonly\_\_ <output> ]

### Syntax Description

nbm	Non Blocking Multicast
mode	Set pmn mode
pim-active	Bandwidth engine running in fabric
pim-passive	API driven flow stitching
__readonly__	(Optional)
<i>output</i>	(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
<i>percentage</i>	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
<i>vrf-name</i>	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

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

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>interface</i>	Interface name for BGP interface peering
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match interface peer AS number
<i>rmap-name</i>	(Optional) Route-map name

## Command Mode

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

# 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
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ipaddr</i>	IP address for LDP neighbor
implicit-withdraw	Enable LDP Implicit Withdraw Label
labels	Configure label binding exchange controls
accept	Specify label bindings to accept
<i>pfx-list</i>	Name of prefix list
targeted	Establish targeted session

## Command Mode

- /exec/configure/ldp

# neighbor

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

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

## Command Mode

- /exec/configure/router-bgp

# neighbor

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

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

## Command Mode

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



# neighbor

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

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-prefix</i>	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-bgp

# neighbor

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

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-prefix</i>	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional) Route-map name

## Command Mode

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

# neighbor

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

## Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>interface</i>	Interface name for BGP interface peering
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match interface peer AS number
<i>rmap-name</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-bgp

# 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
<i>ip_address</i>	IP Address
port	Port number of the Nemo platform
<i>portnum</i>	Port number
interval	Config interval in millisecond
<i>interval-num</i>	Config interval in millisecond

## Command Mode

- /exec/configure

# net

[no] net <net>

## Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
<i>net</i>	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
<i>net</i>	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
<i>rmap-name</i>	(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
<i>ip-addr</i>	IP network to advertise
mask	Configure the mask of the IP prefix to advertise
<i>ip-mask</i>	Dotted 4-octet mask
<i>ip-prefix</i>	IP prefix in CIDR format
route-map	(Optional) Apply route-map to modify attributes
<i>rmap-name</i>	(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  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

# 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
<i>rmap-name</i>	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
<i>noncriticaldelay</i>	Delay value (milliseconds)
<i>criticaldelay</i>	Delay value (milliseconds)

### 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-ipv6-mdt /exec/configure/router-bgp/router-bgp-af-ipv4-vpn /exec/configure/router-bgp/router-bgp-af-ipv6-vpn /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
<i>value</i>	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
<i>id</i>	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
<i>vlan-range</i>	vlan range max span 1024, Example: 2000-3000,400,500
<i>port-range</i>	(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
<i>vlan-range</i>	vlan range max span 1024, Example: 2000-3000,400,500
<i>port-range</i>	(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
<i>profile-id</i>	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
<i>ms</i>	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

```
{ [ <seqno> ] | no } <permitdeny> { { { ethertype <ethertypeid> } | { <proto_icmp> { { { <src_any> | {
<src_addr><src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name>
} } { <dst_any> | { <dst_addr><dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp
<dst_addrgrp_name> } } { [ log ] [ telemetry_queue ] [ telemetry_path ] [ time-range <time_range_name>
] | { <icmp_type> [ <icmp_code> ] } | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2>
} | { dscp { <dscp_num> [ [ dscp-mask ] <dscp_mask> ] | <dscp_str> } } ] + [ [ log ] [ telemetry_queue ] [
telemetry_path ] [ time-range <time_range_name> ] | <icmp_str> | packet-length { <plen_op> <plen0> |
<plen_range> <plen1> <plen2> } | { dscp { <dscp_num> [ [ dscp-mask ] <dscp_mask> ] | <dscp_str> } } ]
+ [ [ log ] [ telemetry_queue ] [ telemetry_path ] [ time-range <time_range_name> ] | { <icmp_type> [
<icmp_code> ] } | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num>
| <tos_str> } } | { precedence { <prec_num> | <prec_str> } } ] + [ [ log ] [ telemetry_queue ] [ telemetry_path
] [ time-range <time_range_name> ] | <icmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } ] + } } | { {
<src_any> | { <src_addr><src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } { <dst_any> | { <dst_addr><dst_wild> } | <dst_prefix> | { dst_key_host <dst_host>
} | { dst_key_addrgrp <dst_addrgrp_name> } } { [ [ fragments ] | [ log ] [ telemetry_queue ] [ telemetry_path
] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2>
} | { dscp { <dscp_num> [ [ dscp-mask ] <dscp_mask> ] | <dscp_str> } } | { ttl <ttl_num> } } ] + [ [ [
fragments ] | [ log ] [ telemetry_queue ] [ telemetry_path ] [ time-range <time_range_name> ] | packet-length
{ <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence
{ <prec_num> | <prec_str> } } | { ttl <ttl_num> } } ] + } } } ] [ vlan <vlanid> | ingress_intf { <intfid> |
<intfname> } | vlan_priority <vlanpriorityid> ] + [ capture session <session-id> ] { { <action> <actionid> }
} + [ log ] }
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	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
<i>ethertypeid</i>	Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>proto_icmp</i>	Protocol

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



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

### Command Mode

- /exec/configure/ipacl

# no

[no] <seqno>

## Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	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
<i>seqno</i>	Sequence number

## Command Mode

- /exec/configure/macac1

# no

[no] <seqno>

## Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	Sequence number

## Command Mode

- /exec/configure/mpsac1

# no

[no] <seqno>

## Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	Sequence number

## Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

## 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> ] } + [
log ] | [ [ <action> <actionid> ] ] + [ telemetry_queue ] | [ [ <action> <actionid> ] ] + [ telemetry_path ]
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	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
<i>ethertypeid</i>	Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
ip	Any IP protocol
<i>proto</i>	A protocol number
<i>ip_other_proto</i>	ip_other_proto
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits

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

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

### 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> ] } + [ log ]
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	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
<i>ethertypeid</i>	Configure the ethertype value

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

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

packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
ttl	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
tcp-option-length	(Optional) Specify TCP Options size
<i>tcp_opt_len</i>	(Optional) TCP option length (multiples of 4 bytes)
tcp-flags-mask	(Optional) Specify TCP Flags
<i>tcp_flags_mask</i>	(Optional) TCP flags mask
http-method	(Optional) Match packets based on http-method
<i>opt_num</i>	(Optional) http_option value
<i>opt_str</i>	(Optional) http_option_param
packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(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

<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>capture</i>	(Optional) Enable packet capture on this filter for session
<i>session</i>	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-PROTO: <1-65535>

**Command Mode**

- /exec/configure/ipacl

## 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> } + } ] # 2363 ../feature/acl_mgr/cli/aclmgr.cmd [ capture session <session-id> ] { [ <action>
<actionid> ] } + [ log ]
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	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
<i>ethertypeid</i>	Configure the ethertype value
<i>vlanid</i>	(Optional) VLAN number

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

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



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

### 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> ] } + [ log ] }
```

## Syntax Description

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

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

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

**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> } ] [ log ] | { udf { <udf_name> <udf_val> <udf_mask> } + } }
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ipv6	Any IPV6 protocol
<i>proto</i>	A protocol number
<i>ipv6_other_proto</i>	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
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>src_any</i>	Any
src_key_host	A single source host
src_key_addrgrp	Source address group

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

<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-PROTO: <1-65535>
-------------------	---

**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> } ] }
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_tcp</i>	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
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority



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

dscp-mask	(Optional) DSCP wildcard Mask
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_mask</i>	(Optional) Differentiated services codepoint mask - 0 to 0x3F
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
<i>flow_num</i>	(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
<i>time_range_name</i>	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
tcp-flags-mask	Specify TCP Flags
<i>tcp_flags_mask</i>	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

<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-PROTO: <1-65535>

**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> ] }
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_udp</i>	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
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>src_any</i>	Any

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

<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_mask</i>	(Optional) Differentiated services codepoint mask - 0 to 0x3F
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
<i>flow_num</i>	(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
<i>time_range_name</i>	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
nve	(Optional) VNI ID <0-16777215>
vni	(Optional) VNI ID <0-16777215>
<i>vni-id</i>	(Optional) VNI ID <0-16777215>
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

### Command Mode

- /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

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_sctp</i>	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
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>src_any</i>	Any
src_key_host	A single source host

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



<i>dscp_mask</i>	(Optional) Differentiated services codepoint mask - 0 to 0x3F
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
flow-label	(Optional) Flow label
<i>flow_num</i>	(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
<i>time_range_name</i>	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session

### Command Mode

- /exec/configure/ipv6acl

## 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> ] } }
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_icmpv6</i>	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
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<i>vlanid</i>	(Optional) VLAN number
<i>intfid</i>	(Optional) Interface index
<i>intfname</i>	(Optional) Interface name
<i>vlanpriorityid</i>	(Optional) Vlan Priority
<i>src_any</i>	Any
src_key_host	A single source host

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

<code>session</code>	(Optional) Session ID <1-48> for this session
<code>session-id</code>	(Optional) Session ID <1-48> for this session
<code>actionv6</code>	(Optional) ActionV6
<code>actionidv6</code>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

**Command Mode**

- /exec/configure/ipv6acl

# no

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

## Syntax Description

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

## Command Mode

- /exec/configure/ipgroup

# no

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

## Syntax Description

<i>seqno</i>	(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

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>_port_op</i>	Port operator
<i>_port_range</i>	Port range
<i>port0_num</i>	Port number
<i>port1_num</i>	Port number
<i>port2_num</i>	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> ] } + [ { udf {
<udf_name> <udf_val> <udf_mask> } + } ]
```

## Syntax Description

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



<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value

**Command Mode**

- /exec/configure/macac1

## 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

## 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
<i>ip-addr</i>	ITD node IP4 prefix in format i.i.i.i
IPv6	ITD node IPv6 address

## Command Mode

- /exec/configure/itd-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
<i>ip-addr</i>	ITD node IP4 prefix in format i.i.i.i
IPv6	ITD node IPv6 address

## Command Mode

- /exec/configure/itd-session-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
<i>if1</i>	
external-interface	Configure preferred external interface(s)
<i>interface</i>	

### 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



## 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
<i>acl-name</i>	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
<i>delay</i>	(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
<i>number</i>	authentication key number (range 1-65535)
md5	use md5 authentication scheme
<i>md5</i>	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
<i>stratum-no</i>	(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
<i>host0</i>	Hostname/IP address of the NTP Peer
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
<i>keyid</i>	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a peer
<i>minpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a peer
<i>maxpoll</i>	(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
<i>host0</i>	Hostname/IP address of the NTP Server
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
<i>keyid</i>	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a server
<i>minpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a server
<i>maxpoll</i>	(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
<i>interface</i>	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
<i>ip-addr</i>	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
<i>number</i>	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

# nve interface remap-replication-servers

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

## Syntax Description

nve	Configure NVE information
interface	Interface
<i>nve-if</i>	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
<i>nve-if</i>	NVE interface
replication-server	Configure a replication server
<i>rep-addr</i>	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
<i>wwn0</i>	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
<i>wwn0</i>	NWWN of the Device
vsan	VSAN id for device
<i>i1</i>	vsan id

### Command Mode

- /exec/configure/dpvm-db

# nxapi certificate

```
{ nxapi certificate { { httpskey { keyfile <uri0> [ password <passphrase> ] } } | { httpsert { certfile <uri1> } } | { enable } } }
```

## Syntax Description

nxapi	Configure nxapi
certificate	Https certificate configuration
httpskey	Https private key
httpsert	Https certificate
keyfile	Https key file
certfile	Https certificate file
password	(Optional) Https encrypted key passphrase
enable	Enable the current certificate
<i>uri0</i>	File containing https private key for the user
<i>passphrase</i>	(Optional) Https encrypted private key passphrase
<i>uri1</i>	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
<i>verification-setting</i>	(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
<i>i0</i>	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
<i>prot_string</i>	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
<i>vrf_name</i>	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
<i>nxsdk-profile-name</i>	NxSDK service profile name

### Command Mode

- /exec/configure

## 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
<i>port</i>	Port
namespace	(Optional) Namespace to run the remote server on. Default is Vrf: Default
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
certificate	(Optional) Specify certificate id to be used for the remote session
<i>cert-id</i>	(Optional) Certificate identification

### Command Mode

- /exec/configure

## 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
<i>nxsdk-service-name</i>	Service name
profile	(Optional) Service profile
<i>nxsdk-profile-name</i>	(Optional) Name of the profile

### Command Mode

- /exec/configure