



## 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
- [nat destination](#), on page 10
- [nat destination](#), on page 11
- [nbm flow acceptance-mode guaranteed nbm flow acceptance-mode](#), on page 12
- [nbm flow bandwidth nbm flow bandwidth](#), on page 13
- [nbm mode controller](#), on page 14
- [nbm mode flow](#), on page 15
- [nbm multicast route add](#), on page 16
- [nbm multicast route delete](#), on page 17
- [nbm test-rest-api secure request-type](#), on page 18
- [nbm unit-test all](#), on page 19
- [negotiate auto](#), on page 20
- [neighbor-down fib-accelerate](#), on page 21
- [neighbor](#), on page 22
- [neighbor](#), on page 23
- [neighbor](#), on page 24
- [neighbor](#), on page 25
- [neighbor](#), on page 26
- [neighbor maximum-prefix](#), on page 27
- [net](#), on page 28
- [net](#), on page 29
- [network](#), on page 30
- [network](#), on page 31
- [network](#), on page 32
- [network](#), on page 33
- [network area](#), on page 34
- [next-address exclude-address](#), on page 35
- [next-hop-self](#), on page 36

- next-hop-self, on page 37
- next-hop-third-party, on page 38
- next-hop-third-party, on page 39
- next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null, on page 40
- next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null, on page 41
- nexthop route-map, on page 42
- nexthop route-map, on page 43
- nexthop trigger-delay critical non-critical, on page 44
- ngoam authentication-key, on page 45
- ngoam install acl, on page 46
- ngoam install acl draft-pang action fwd, on page 47
- ngoam probe start, on page 48
- ngoam profile, on page 49
- no-more, on page 50
- no, on page 51
- no, on page 52
- no, on page 53
- no, on page 54
- no, on page 57
- no, on page 62
- no, on page 66
- no, on page 69
- no, on page 72
- no, on page 76
- no, on page 79
- no, on page 82
- no, on page 85
- no, on page 87
- no, on page 88
- no, on page 89
- no, on page 90
- no, on page 91
- node, on page 92
- node, on page 93
- node, on page 94
- node, on page 95
- node, on page 96
- node, on page 97
- nsf await-redis-proto-convergence, on page 98
- ntp access-group, on page 99
- ntp access-group match-all, on page 100
- ntp allow private, on page 101
- ntp authenticate, on page 102
- ntp authentication-key md5, on page 103

- [ntp clear internal buffer](#), on page 104
- [ntp drop-aged-packet](#), on page 105
- [ntp enable ntpd-logfile debug-level](#), on page 106
- [ntp logging](#), on page 107
- [ntp master](#), on page 108
- [ntp passive](#), on page 109
- [ntp peer](#), on page 110
- [ntp rts-update](#), on page 111
- [ntp server](#), on page 112
- [ntp source-interface](#), on page 113
- [ntp source](#), on page 114
- [ntp sync-retry](#), on page 115
- [ntp trusted-key](#), on page 116
- [nv overlay evpn](#), on page 117
- [nve interface remap-replication-servers](#), on page 118
- [nve interface replication-server up](#), on page 119
- [nve oam mode draft-pang](#), on page 120
- [nxapi certificate](#), on page 121
- [nxapi flow](#), on page 122
- [nxapi http port](#), on page 123
- [nxapi use-vrf management default](#), on page 124
- [nxsdk enable app](#), on page 125
- [nxsdk service-name](#), on page 126

# name-lookup

[no] name-lookup

## Syntax Description

---

**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

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

## Command Mode

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

# name

name [ <name> ] | no name

## Syntax Description

---

**Syntax Description**

---

no Negate a command or set its defaults

---

name Redundancy name string

---

*name* (Optional) name string

---

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# name

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

## Syntax Description

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

# name

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

## Syntax Description

Syntax Description		
no		Negate a command or set its defaults
name		Redundancy name
<i>redundancy-name</i>		Name String

## Command Mode

- /exec/configure/if-eth-any/glbp



# nat destination

{ nat destination } | { no nat destination }

## Syntax Description

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

## Command Mode

- /exec/configure/itd

# nat destination

{ nat destination } | { no nat destination }

## Syntax Description

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

## Command Mode

- /exec/configure/itd

# nat destination

{ nat destination } | { no nat destination }

## Syntax Description

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

## Command Mode

- /exec/configure/plb

# nbm flow acceptance-mode guaranteed nbm flow acceptance-mode

{ nbm flow acceptance-mode { guaranteed | best-fit } } | [ no ] nbm flow acceptance-mode

## Syntax Description

### Syntax Description

nbm	Non Blocking Multicast
flow	Flow Characteristics
acceptance-mode	Flow Acceptance Mode
guaranteed	New flows are guaranteed to be accepted
best-fit	New flows are best-fit among fabric links

## Command Mode

- /exec/configure

# nbm flow bandwidth nbm flow bandwidth

{ nbm flow bandwidth <i0> } | [ no ] nbm flow bandwidth

## Syntax Description

Syntax Description		
nbm		Non Blocking Multicast
flow		Flow Characteristics
bandwidth		Bandwidth per flow
<i>i0</i>		Per Flow Bandwidth in Mbps

## Command Mode

- /exec/configure

## nbm mode controller

[no] nbm mode controller [ \_\_readonly\_\_ <output> ]

### Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
nbm		non blocking multicast
mode		set pmn mode
controller		enable controller-mode for pmn
__readonly__	(Optional)	
<i>output</i>	(Optional)	

### Command Mode

- /exec/configure

# nbm mode flow

[no] nbm mode flow

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
nbm	Non Blocking multicast
mode	Set NBM flow mode
flow	Flow Characteristics

## Command Mode

- /exec/configure

# nbm multicast route add

[no] nbm multicast route add

## Syntax Description

---

**Syntax Description**

---

nbm	NBM Commands
-----	-----------------

---

multicast	MULTICAST
-----------	-----------

---

route	Route
-------	-------

---

add	add
-----	-----

---

## Command Mode

- /exec/configure



# nbm multicast route delete

[no] nbm multicast route delete

## Syntax Description

Syntax Description		
nbm	NBM	Commands
multicast	MULTICAST	
route	Route	
delete	delete	

## Command Mode

- /exec/configure

## nbm test-rest-api secure request-type

nbm test-rest-api { secure | plain } request-type { POST | GET | PUT | DELETE }

### Syntax Description

Syntax Description		
nbm		nbm
test-rest-api		Test REST API
secure		Over HTTPS
plain		Over plain HTTP
request-type		type of http request
POST		HTTP POST
GET		HTTP GET
PUT		HTTP PUT
DELETE		HTTP DELETE

### Command Mode

- /exec

# nbm unit-test all

nbm unit-test all

## Syntax Description

---

### Syntax Description

---

nbm nbm

---

unit-test unit test

---

all perform all unit  
tests

---

## Command Mode

- /exec/configure

# negotiate auto

negotiate auto | no negotiate auto

## Syntax Description

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

# neighbor-down fib-accelerate

[no] neighbor-down fib-accelerate

## Syntax Description

<b>Syntax Description</b>	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 { <neighbor-id> | <ipv6-neighbor-id> } [ remote-as <asn> ]

## Syntax Description

### 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

---

### 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

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

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

```
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

### 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 maximum-prefix

```
{ { neighbor <address> { <interface> | maximum-prefix <value> [ warning-only ] } } | { no neighbor <address>
[ <interface> | maximum-prefix <value> [ warning-only ] ] } } | { { neighbor maximum-prefix <value> [
<threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened
] } | { no neighbor maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count
<count> ] ] } }
```

## Syntax Description

### Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>neighbor</code>	Specify a neighbor router
<code>interface</code>	Interface
<code>address</code>	Neighbor address
<code>maximum-prefix</code>	Maximum number of IP prefixes acceptable from a neighbor
<code>value</code>	Number of IP prefixes for maximum-prefix limit
<code>threshold</code>	(Optional) Threshold value (%) at which to generate a warning message
<code>warning-only</code>	(Optional) Only give warning message when limit is exceeded
<code>restart</code>	(Optional) Duration for which a prefix source is ignored
<code>time1</code>	(Optional) Restart interval in minutes
<code>restart-count</code>	(Optional) Number of times sessions are auto-restarted
<code>count</code>	(Optional) Number of times
<code>reset-time</code>	(Optional) Duration after which restart history is cleared
<code>time2</code>	(Optional) Reset time in minutes
<code>dampened</code>	(Optional) Exponentially increase restart time interval

## Command Mode

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

# net

[no] net <net>

## Syntax Description

<b>Syntax Description</b>	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

---

### Syntax Description

---

*no* (Optional) Negate a command or set its defaults

---

*net* Configure Network Entity Title for IS-IS

---

*net* NET in form of XX.XXXX. ... .XXXX[.00]

---

## Command Mode

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

# network

[no] network { <ip-dest> <ip-mask> | <ip-prefix> }

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
network	RIP IP network
<i>ip-dest</i>	IP addr format
<i>ip-mask</i>	IP network mask format
<i>ip-prefix</i>	Exact prefix

## Command Mode

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

# network

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

## Syntax Description

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	(Optional) Summarize more specific prefixes from routing table

## Command Mode

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

# network

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

## Syntax Description

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	(Optional) Summarize more specific prefixes from routing table

## Command Mode

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



# network

[no] network { { <address> <mask> } | <prefix> }

## Syntax Description

<b>Syntax Description</b>	<i>no</i> (Optional) Negate a command or set its defaults
	<i>network</i> Enable routing on an IP network
	<i>address</i> Network number
	<i>mask</i> EIGRP wild card bits
	<i>prefix</i> IP prefix in slash format

## Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-ipv4

# network area

[no] network { <ip-dest> <ip-mask> | <ip-prefix> } area { <area-id-ip> | <area-id-int> }

## Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
network		Enable routing on an IP network
<i>ip-dest</i>		IP prefix format: i.i.i.i
<i>ip-mask</i>		IP network mask format: m.m.m.m
<i>ip-prefix</i>		IP prefix format: x.x.x.x/ml
area		Configure area properties
<i>area-id-ip</i>		OSPF area ID in IP address format
<i>area-id-int</i>		OSPF area ID as a decimal format

## Command Mode

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

## next-address exclude-address

```
{ next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> }
```

### Syntax Description

#### Syntax Description

<code>next-address</code>	Specify the next address in the path
<code>loose</code>	(Optional) Target address is loose
<code>strict</code>	(Optional) Target address is strict
<code>exclude-address</code>	Exclude an address from subsequent partial path segments
<code>ipaddr</code>	Enter IP address (A.B.C.D)

### Command Mode

- /exec/configure/te/expl-path

# next-hop-self

[ no | default ] next-hop-self

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

## 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

# next-hop-self

[ no | default ] next-hop-self

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

## Command Mode

- /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

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

# next-hop-third-party

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

## Syntax Description

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-ipv4-mdt

# next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null

```
[no] { next-hop [ backup <interface> ] <next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

## Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
next-hop	Nexthop	
<i>next-hop</i>	Destination IPv4 next hop	
<i>static-outlabel</i>	Label Value	
<i>interface</i>	(Optional) Back up interface	
out-label	Output label	
explicit-null	IETF MPLS IPv4 explicit null label (0)	
implicit-null	IETF MPLS implicit null label (3)	
auto-resolve	auto resolve the destination path	
backup	(Optional) Backup destination	

## Command Mode

- /exec/configure/mpls\_static/ipv4/input



# next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null

```
[no] { next-hop [ backup <interface> ] <ipv6-next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

## Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
next-hop		Nexthop
<i>static-outlabel</i>		Label Value
<i>interface</i>	(Optional)	Back up interface
out-label		Output label
explicit-null		IETF MPLS IPv6 explicit null label (2)
implicit-null		IETF MPLS implicit null label (3)
auto-resolve		auto resolve the destination path
backup	(Optional)	Backup destination

## Command Mode

- /exec/configure/mpls\_static/ipv6/input

# nexthop route-map

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

## Syntax Description

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

# nexthop route-map

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

## Syntax Description

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-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls

# nexthop trigger-delay critical non-critical

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

## Syntax Description

Syntax Description		
<code>no</code>		Negate a command or set its defaults
<code>nexthop</code>		Nexthop tracking
<code>trigger-delay</code>		Set the delay to trigger nexthop tracking
<code>critical</code>		Nexthop changes affecting reachability
<code>non-critical</code>		Other nexthop changes
<code>noncriticaldelay</code>		Delay value (milliseconds)
<code>criticaldelay</code>		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-ipv4-vpnv4 /exec/configure/router-bgp/router-bgp-af-ipv4-vpnv6 /exec/configure/router-bgp/router-bgp-af-link-state /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# ngoam authentication-key

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

## Syntax Description

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 install acl

[no] ngoam install acl

## Syntax Description

<b>Syntax Description</b>	no	(Optional) Negate a command or set its defaults
	ngoam	Configure ngoam
	install	Ngoam install
	acl	Ngoam install acl

## Command Mode

- /exec/configure

# ngoam install acl draft-pang action fwd

[no] ngoam install acl draft-pang action { fwd | drop }

## Syntax Description

Syntax	Description
no	(Optional) Negate a command or set its defaults
ngoam	ngoam
install	Ngoam install
acl	Ngoam install acl
draft-pang	Ngoam install acl based on draft pang
action	Choose the action to perform
fwd	Copy and Forward the packet
drop	Copy and Drop the packet

## Command Mode

- /exec/configure

# ngoam probe start

ngoam probe start <hex-string>

## Syntax Description

---

### Syntax Description

---

ngoam    ngoam exec command

---

probe    ngoam probe

---

start    start ngoam probe

---

*hex-string* Specify string in hex string format: 0A1B .. starting with outer header of real draft pang probe packet

---

## Command Mode

- /exec



# ngoam profile

[no] ngoam profile <profile-id>

## Syntax Description

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

# no-more

| no-more

## Syntax Description

---

### Syntax Description

---

| Pipe command output to filter

---

no-more Turn-off pagination for command output

---

## Command Mode

- /output

# no

[no] <seqno>

## Syntax Description

---

### Syntax Description

---

no     Negate a command or set its defaults

---

*seqno*   Sequence number

---

## Command Mode

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

# no

[no] <seqno>

## Syntax Description

---

### Syntax Description

---

no     Negate a command or set its defaults

---

*seqno*   Sequence number

---

## Command Mode

- /exec/configure/macac1

# no

[no] <seqno>

## Syntax Description

---

### Syntax Description

---

no    Negate a command or set its defaults

---

*seqno*    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 ] | [ time-range <time_range_name>
] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str>
} } } | { ttl <ttl_num> } } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } + | [ [ fragments ] | [ log ] |
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 ]
```

## Syntax Description

## 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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<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>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>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>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>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_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 ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> | <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 ] [ 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 ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp {
<dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } } +
{ [ [ fragments ] | [ log ] [ 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 ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } } | { dscp { <dscp_num> | <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 ] [ 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****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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<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>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>tcp-option-length</i>	(Optional) Specify TCP Options size
<i>tcp_opt_len</i>	(Optional) TCP option length (multiples of 4 bytes)
<i>tcp-flags-mask</i>	(Optional) Specify TCP Flags
<i>tcp_flags_mask</i>	(Optional) TCP flags mask
<i>http-method</i>	(Optional) Match packets based on http-method
<i>opt_num</i>	(Optional) http_option value
<i>opt_str</i>	(Optional) http_option_param
<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>urg</i>	(Optional) Match on the URG bit
<i>ack</i>	(Optional) Match on the ACK bit
<i>psb</i>	(Optional) Match on the PSB bit
<i>rst</i>	(Optional) Match on the RST bit
<i>syn</i>	(Optional) Match on the SYN bit
<i>fin</i>	(Optional) Match on the FIN bit
<i>established</i>	(Optional) Match established connections
<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> { { 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 ] [
time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } |
{ dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } ] } + { [ [ log ] [ 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 ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val>
<udf_mask> } + } ] } + { [ [ fragments ] [ log ] [ 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 ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> |
<plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } ] } + { [ [ log
] [ 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> } + } ] # 2045 ../feature/acl_mgr/cli/aclmgr.cmd [ capture
session <session-id> ] { [ <action> <actionid> ] } + [ log ]
```

## Syntax Description

## 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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<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>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 ] [ time-range <time_range_name> ] | <igmp_num> | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } } | { dscp { <dscp_num> | <dscp_str> } } ] + | [ [ log ] [ time-range <time_range_name> ]
| <igmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num>
| <dscp_str> } } ] + | [ [ log ] [ 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 ] [ 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 ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp {
<dscp_num> | <dscp_str> } } | { ttl <ttl_num> } } ] + | { [ [ fragments ] [ log ] [ 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****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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<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>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) IGMP 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> { { { 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 ] [ time-range <time_range_name> ] | { <icmp_type> [ <icmp_code> ] } |
packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str>
} } } ] + [ [ log ] [ time-range <time_range_name> ] | <icmp_str> | packet-length { <plen_op> <plen0> |
<plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } ] + [ [ log ] [ 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 ] [ 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 ] [ time-range <time_range_name>
] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str>
} } } | { ttl <ttl_num> } } ] + | { [ [ fragments ] | [ log ] [ 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****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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<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>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

```
{ [ <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_str> } } ] [ { flow-label
<flow_num> } ] [ log ] [ 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>
} ] ] + } | { { <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_str>
} } } [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ 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

## 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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value

<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>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>tcp-flags-mask</i>	Specify TCP Flags
<i>tcp_flags_mask</i>	TCP flags mask
<i>urg</i>	(Optional) Match on the URG bit
<i>ack</i>	(Optional) Match on the ACK bit
<i>psh</i>	(Optional) Match on the PSH bit
<i>rst</i>	(Optional) Match on the RST bit
<i>syn</i>	(Optional) Match on the SYN bit
<i>fin</i>	(Optional) Match on the FIN bit
<i>established</i>	(Optional) Match established connections
<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_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_str> } } ] [ { flow-label <flow_num>
} ] [ log ] [ time-range <time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } ] ] + } [ 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_str> } } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ 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

## 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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value

<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>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>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>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_str> } } ] [ { flow-label <flow_num>
} ] [ log ] [ 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_str>
} } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ 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****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

<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) SCTP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) SCTP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) SCTP 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) SCTP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) SCTP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) SCTP 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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<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>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

#### 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_str> } } | { flow-label
<flow_num> } ] [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } } ] + [ [ <icmpv6_str> | { dscp { <dscp_num> | <dscp_str> } } | { flow-label <flow_num>
} ] [ log ] [ 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_str>
} } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ 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

## 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
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<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>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
<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

---

*actionidv6* (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> { { [ <arp_request> ] req_ip { <sender1_ip_any> | { { <sender1_host>
<sender1_ip> | { <sender1_net_ip> <sender1_ip_mask> } } } } mac { <sender1_mac_any> | { {
<sender1_mac_host> <sender1_mac> | { <sender1_net_mac> <sender1_mac_mask> } } } } | {
<arp_response> resp_ip { <sender2_ip_any> | { { <sender2_host> <sender2_ip> | { <sender2_net_ip>
<sender2_ip_mask> } } } } { <target_ip_any> | { { <target_host> <target_ip> | { <target_net_ip>
<target_ip_mask> } } } } mac { <sender2_mac_any> | { { <sender2_mac_host> <sender2_mac> | {
<sender2_net_mac> <sender2_mac_mask> } } } } [ { <target_mac_any> | { { <target_mac_host> <target_mac>
| { <target_net_mac> <target_mac_mask> } } } } ] } [ <arp_log> ] [ capture session <session-id> ] }
```

**Syntax Description****Syntax Description**

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
req_ip	Any IP protocol
resp_ip	Any IP protocol
<i>arp_request</i>	(Optional) ARP_Request
<i>arp_response</i>	ARP_Response
<i>sender1_ip_any</i>	Any
<i>sender1_host</i>	Host
<i>sender1_ip</i>	IP address <a.b.c.d>
<i>sender1_net_ip</i>	IP address <a.b.c.d>
<i>sender1_ip_mask</i>	IP mask <a.b.c.d>
<i>sender2_ip_any</i>	Any
<i>sender2_host</i>	Host
<i>sender2_ip</i>	IP address <a.b.c.d>
<i>sender2_net_ip</i>	IP address <a.b.c.d>
<i>sender2_ip_mask</i>	IP mask <a.b.c.d>
<i>target_ip_any</i>	Any
<i>target_host</i>	Host
<i>target_ip</i>	IP address <a.b.c.d>
<i>target_net_ip</i>	IP address <a.b.c.d>

<i>target_ip_mask</i>	IP mask <a.b.c.d>
<i>mac</i>	MAC configuration commands
<i>sender1_mac_any</i>	Any
<i>sender1_mac_host</i>	Host
<i>sender1_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender1_net_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender1_mac_mask</i>	MAC mask EEEE.EEEE.EEEE
<i>sender2_mac_any</i>	Any
<i>sender2_mac_host</i>	Host
<i>sender2_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender2_net_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender2_mac_mask</i>	MAC mask EEEE.EEEE.EEEE
<i>target_mac_any</i>	(Optional) Any
<i>target_mac_host</i>	(Optional) Host
<i>target_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_net_mac</i>	(Optional) MAC address EEEE.EEEE.EEEE
<i>target_mac_mask</i>	(Optional) MAC mask EEEE.EEEE.EEEE
<i>arp_log</i>	(Optional) Log
<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

### Command Mode

- /exec/configure/arpacl

# no

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

## Syntax Description

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

---

#### Syntax Description

*seqno* (Optional) Sequence number

no Negate a command or set its defaults

host Host address of the object-group member

---

### Command Mode

- /exec/configure/ipv6group



# no

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

## Syntax Description

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> ] } +
```

### Syntax Description

#### 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-channel1

### Command Mode

- /exec/configure/macacl

# no

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

## Syntax Description

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

# node

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

## Syntax Description

### Syntax Description

no	(Optional) Negate a command or set its defaults
node	Catena device-group node
ip	(Optional) Catena device-group node IPv4 address
<i>ip-addr</i>	(Optional) Catena device-group node IP4 prefix in format i.i.i.i
IPv6	(Optional) Catena device-group node IPv6 address

## Command Mode

- /exec/configure/catena-device-grp

# node

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

## Syntax Description

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

## Command Mode

- /exec/configure/itd-device-group

# node

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

## Syntax Description

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

## Command Mode

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

# node

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

## Syntax Description

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

## Command Mode

- /exec/configure/itd-device-group

# node

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

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
node	PLB node
ip	(Optional) PLB node IPv4 address
<i>ip-addr</i>	(Optional) PLB node IP4 prefix in format i.i.i.i
IPv6	(Optional) PLB node IPv6 address

## Command Mode

- /exec/configure/plb-session-device-group



# node

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

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
node	PLB node
ip	(Optional) PLB node IPv4 address
<i>ip-addr</i>	(Optional) PLB node IP4 prefix in format i.i.i.i
IPv6	(Optional) PLB node IPv6 address

## Command Mode

- /exec/configure/plb-device-group

# nsf await-redis-PROTO-convergence

{ [ no ] nsf await-redis-PROTO-convergence }

## Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
nsf	Non-stop forwarding	
await-redis-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

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

<b>Syntax Description</b>	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

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

## Command Mode

- /exec/configure

# ntp authenticate

[no] ntp authenticate

## Syntax Description

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

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 clear internal buffer

ntp clear internal buffer

## Syntax Description

---

### Syntax Description

---

ntp NTP configuration

---

clear clear

---

internal internal

---

buffer debug message  
buffer

---

## Command Mode

- /exec



# ntp drop-aged-packet

[no] ntp drop-aged-packet

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
drop-aged-packet	Enable or disable Riviera Timestamp Check.

## Command Mode

- /exec/configure

# ntp enable ntpd-logfile debug-level

[no] ntp enable ntpd-logfile debug-level <level>

## Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its default	
ntp	NTP configuration	
enable	Enable logging	
ntpd-logfile	NTP daemon logs	
debug-level	debug level of logs	
<i>level</i>	debug level of logs	

## Command Mode

- /exec/configure

# ntp logging

[no] ntp logging

## Syntax Description

<b>Syntax Description</b>	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

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

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

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 rts-update

[no] ntp rts-update

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
rts-update	Enable or disable RTS update to linecards.

## 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

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

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

<b>Syntax Description</b>	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

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

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

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

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

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

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



# nxapi certificate

```
{ nxapi certificate { { httpskey { keyfile <uri0> | <line> } } | { httpsCRT { certfile <uri1> | <line1> } } | { enable
} } }
```

## Syntax Description

Syntax Description	
nxapi	Configure nxapi
certificate	Https certificate configuration
httpskey	Https private key
httpsCRT	Https certificate
keyfile	Https key file
certfile	Https certificate file
enable	Enable the current certificate
<i>uri0</i>	File containing https private key for the user
<i>line</i>	nxapi https private key
<i>uri1</i>	File containing https certificate
<i>line1</i>	nxapi https certificate

## Command Mode

- /exec/configure

# nxapi flow

```
{ [ no ] nxapi flow }
```

## Syntax Description

<b>Syntax Description</b>	no (Optional) Negate a command or set its defaults
	nxapi Configure nxapi
	flow allow frontend to access /sys/flow/

## Command Mode

- /exec/configure

# nxapi http port

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

## Syntax Description

---

**Syntax Description**

**no** Negate a command or set its defaults

---

**nxapi** Configure nxapi

---

**s0** Port number. Please do not use well-known protocol ports

---

**http** Http configuration

---

**https** Https configuration

---

**port** Port number

---

## 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

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 enable app

[no] nxsdk enable app <app-index>

## Syntax Description

<b>Syntax Description</b>	no	(Optional) Negate a command or set its defaults
	nxsdk	NXOS SDK
	enable	Command to enable/disable nxsdk application
	app	Enable/disable application
	<i>app-index</i>	Application index

## Command Mode

- /exec

## nxsdk service-name

```
{ [ no ] nxsdk service-name <service-name> }
```

### Syntax Description

---

**Syntax Description**

---

nxsdk	NXOS SDK
-------	----------

---

service-name	Complete path and name of file to execute
--------------	---

---

<i>service-name</i>	Service name
---------------------	--------------

---

### Command Mode

- /exec/configure