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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 OSPF Neighbors

Command Mode

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

name

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

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

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 <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/plb

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 acceptance-mode guaranteed nbm flow acceptance-mode

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

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 asm range

[no] nbm flow asm range <group> +

Syntax Description

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 bandwidth nbm flow bandwidth

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

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

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 pim-active

[no] nbm mode pim-active [__readonly__ <output>]

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non blocking multicast
mode	Set pmn mode
pim-active	Bandwidth engine running in fabric
__readonly__	(Optional)
<i>output</i>	(Optional)

Command Mode

- /exec/configure

nbm mode verbose

[no] nbm mode verbose

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking Multicast
mode	Set NBM flow mode
verbose	Enable verbose Logs

Command Mode

- /exec/configure

nbm multicast route add

[no] nbm multicast route add

Syntax Description

nbm	Non Blocking Multicast
multicast	MULTICAST
route	Route
add	add

Command Mode

- /exec/configure

nbm multicast route delete

[no] nbm multicast route delete

Syntax Description

nbm	Non Blocking Multicast
multicast	MULTICAST
route	Route
delete	delete

Command Mode

- /exec/configure

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

nbm test-rest-api secure request-type

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

Syntax Description

nbm	Non Blocking Multicast
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

nbm	Non Blocking Multicast
unit-test	unit test
all	perform all unit tests

Command Mode

- /exec/configure

nbm vpc transport-vlan

[no] nbm vpc transport-vlan <vlan_id>

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	non blocking multicast
vpc	nbm vpc related commands
transport-vlan	configure nbm vpc transport vlan
<i>vlan_id</i>	vlan value

Command Mode

- /exec/configure

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

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 { <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 { <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

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 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

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

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

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

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	(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 { <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	(Optional) Summarize more specific prefixes from routing table
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

network

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

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 { { <address> <mask> } | <prefix> }

Syntax Description

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

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

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

Command Mode

- /exec/configure/te/expl-path

next-hop-self

[no | default] next-hop-self

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-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6

next-hop-self

[no | default] next-hop-self

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

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

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-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

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

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

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

ngoam authentication-key

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

Syntax Description

no	Negate a command or set its defaults
ngoam	Configure ngoam
authentication-key	Ngoam authentication-key
<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 install acl draft-pang action fwd

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

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

ngoam	ngoam exec command
probe	ngoam probe
start	start ngoam probe
<i>hex-string</i>	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

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

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

Command Mode

- /output

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

<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
vlan	(Optional) VLAN number
cos	(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] <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/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

<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

<code>src_key_host</code>	A single source host
<code>src_host</code>	Source address
<code>src_key_addrgrp</code>	Source address group
<code>src_addrgrp_name</code>	Address group name
<code>dst_any</code>	Any
<code>dst_addr</code>	Destination network address
<code>dst_wild</code>	Destination wildcard bits
<code>dst_prefix</code>	Destination network prefix
<code>dst_key_host</code>	A single destination host
<code>dst_host</code>	Destination address
<code>dst_key_addrgrp</code>	Destination address group
<code>dst_addrgrp_name</code>	Address group name
<code>dscp</code>	(Optional) Match packets with given dscp value
<code>dscp_num</code>	(Optional) Differentiated services codepoint value
<code>dscp_str</code>	(Optional) Differentiated services codepoint label
<code>tos</code>	(Optional) Match packets with given TOS value
<code>tos_num</code>	(Optional) Type of service value
<code>tos_str</code>	(Optional) Type of service label
<code>precedence</code>	(Optional) Match packets with given precedence value
<code>prec_num</code>	(Optional) Precedence value
<code>prec_str</code>	(Optional) Precedence label
<code>fragments</code>	(Optional) Check non-initial fragments
<code>log</code>	(Optional) Log matches against this entry
<code>time-range</code>	(Optional) Specify a time range
<code>time_range_name</code>	(Optional) Time range name
<code>packet-length</code>	(Optional) Match packets based on layer 3 packet length
<code>plen_op</code>	(Optional) Packet-length operator
<code>plen_range</code>	(Optional) Packet-length range
<code>plen0</code>	(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-protocol: <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

<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>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>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> } + } ] # 2061 ../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
<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

<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
<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>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

<code>session</code>	(Optional) Session ID <1-48> for this session
<code>session-id</code>	(Optional) Session ID <1-48> for this session
<code>action</code>	(Optional) Action
<code>actionid</code>	(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

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>ethertype</i>	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>tth</i>	(Optional) Match Packets with a given TTL value
<i>tth_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

<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
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) 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

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
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_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

<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
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) UDP port
<code>src_port1</code>	(Optional) Port number
<code>src_port1_str</code>	(Optional) UDP port
<code>src_port2</code>	(Optional) Port number
<code>src_port2_str</code>	(Optional) UDP 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) UDP port
<code>dst_port1</code>	(Optional) Port number
<code>dst_port1_str</code>	(Optional) UDP port
<code>dst_port2</code>	(Optional) Port number
<code>dst_port2_str</code>	(Optional) UDP 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
<code>dscp_num</code>	(Optional) Differentiated services codepoint value
<code>dscp_str</code>	(Optional) Differentiated services codepoint label

<code>flow-label</code>	(Optional) Flow label
<code>flow_num</code>	(Optional) Flow label value
<code>fragments</code>	(Optional) Check non-initial fragments
<code>log</code>	(Optional) Log matches against this entry
<code>time-range</code>	(Optional) Specify a time range
<code>time_range_name</code>	(Optional) Time range name
<code>packet-length</code>	(Optional) Match packets based on layer 3 packet length
<code>plen_op</code>	(Optional) Packet-length operator
<code>plen_range</code>	(Optional) Packet-length range
<code>plen0</code>	(Optional) Packet length
<code>plen1</code>	(Optional) Lower packet length
<code>plen2</code>	(Optional) Higher packet length
<code>capture</code>	(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>nve</code>	(Optional) VNI ID <0-16777215>
<code>vni</code>	(Optional) VNI ID <0-16777215>
<code>vni-id</code>	(Optional) VNI ID <0-16777215>
<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 } <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

<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

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
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_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

<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
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
<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
<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> { { [ <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

<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/arpac1

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

[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

node

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

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

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

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 ip

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

Syntax Description

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

Command Mode

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

node ip

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

Syntax Description

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

Command Mode

- /exec/configure/plb-device-group

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 drop-aged-packet

[no] ntp drop-aged-packet

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

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

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 rts-update

[no] ntp rts-update

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

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 enable history

[no] nve enable history { all | vni | peer | port }

Syntax Description

no	(Optional) Negate a command or set its defaults
nve	Display NVE information
enable	enable knob for all, vni, port and peer history
history	history for vni port peer
all	
vni	
peer	
port	

Command Mode

- /exec/configure

nve event-history size

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

Syntax Description

nve	Display NVE information
event-history	Configure the event-history buffers
<i>buffer-name</i>	Event history buffer whose size is to be configured
size	Configure the buffer sizes
<i>size_in_text</i>	Size of event history buffer
<i>size_in_bytes</i>	Size in bytes in the range 1-5000000

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

nxapi certificate

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

Syntax Description

<code>nxapi</code>	Configure nxapi
<code>certificate</code>	Https certificate configuration
<code>httpskey</code>	Https private key
<code>httpsrct</code>	Https certificate
<code>keyfile</code>	Https key file
<code>certfile</code>	Https certificate file
<code>enable</code>	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

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

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 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 enable app

[no] nxsdk enable app <app-index>

Syntax Description

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

nxsdk	NXOS SDK
service-name	Complete path and name of file to execute
<i>service-name</i>	Service name

Command Mode

- /exec/configure