



P Commands

- [packet](#), on page 7
- [param-list param-list](#), on page 8
- [parity](#), on page 9
- [parity](#), on page 10
- [passive-interface default](#), on page 11
- [passive-interface default](#), on page 12
- [passive-interface default](#), on page 13
- [passive-interface default](#), on page 14
- [password](#), on page 15
- [password](#), on page 16
- [password](#), on page 17
- [password prompt username](#), on page 18
- [password secure-mode](#), on page 19
- [password strength-check](#), on page 20
- [path-option dynamic explicit identifier](#), on page 21
- [path-selection metric igp](#), on page 22
- [path-selection metric igp](#), on page 23
- [path-selection overload allow](#), on page 24
- [path](#), on page 25
- [path next-hop out-label-stack](#), on page 26
- [pathtrace nve](#), on page 27
- [pause](#), on page 29
- [pause](#), on page 30
- [pause buffer-size2 pause-threshold2 resume-threshold2](#), on page 31
- [pause priority](#), on page 32
- [payload test pattern-type pad](#), on page 33
- [peer-gateway](#), on page 34
- [peer-ip](#), on page 35
- [peer-keepalive destination](#), on page 36
- [peer-switch](#), on page 38
- [peer-type fabric](#), on page 39
- [peer-vtep](#), on page 40
- [peer ip](#), on page 41

- peer ip, on page 42
- peer local service, on page 43
- peer vdc service, on page 44
- peer vdc service, on page 45
- perf, on page 46
- periodic-inventory notification, on page 47
- periodic-inventory notification interval, on page 48
- periodic to, on page 49
- periodic to, on page 50
- permit, on page 51
- permit interface, on page 52
- permit vlan, on page 53
- permit vrf, on page 54
- permit vsan, on page 55
- personality, on page 56
- personality backup, on page 57
- personality restore, on page 58
- phone-contact, on page 59
- ping, on page 60
- ping6, on page 62
- ping nve, on page 63
- pinning max-links, on page 65
- pinning mode, on page 66
- pktmgr cache disable, on page 67
- pktmgr discard, on page 68
- platform access-list capture, on page 69
- platform access-list fp_dnl, on page 70
- platform access-list update, on page 71
- platform fabricpath mac-learning module, on page 72
- platform forwarding interface statistics mode mpls, on page 73
- platform forwarding layer-2 fl exclude supervisor, on page 74
- platform ip verify, on page 75
- platform ipv6 verify, on page 77
- platform qos, on page 78
- platform qos, on page 79
- platform qos, on page 80
- platform qos, on page 81
- platform qos, on page 82
- platform qos, on page 83
- platform qos, on page 84
- platform qos, on page 85
- platform qos, on page 86
- platform qos, on page 87
- platform qos, on page 88
- platform qos, on page 89
- platform qos buffer peak monitor counter0 class, on page 90

- platform qos buffer peak monitor counter1 class, on page 91
- platform qos classify ns-only, on page 92
- platform qos eoq, on page 93
- platform qos include ipg, on page 94
- platform qos ing, on page 95
- platform qos ing, on page 96
- platform qos mac ipg, on page 97
- platform qos nodrop-PG-thresholds PG-size Red-threshold Yellow-threshold Green-threshold, on page 98
- platform qos nodrop-queue-thresholds Queue-yellow Queue-green, on page 99
- platform qos ns, on page 100
- platform qos q-noise percent, on page 101
- platform rate-limiter, on page 102
- platform rate-limiter, on page 104
- platform rate-limiter access-list-log, on page 106
- platform rate-limiter span-egress, on page 107
- plugin-test load, on page 108
- plugin-test unload, on page 109
- police, on page 110
- police, on page 114
- police, on page 118
- police, on page 120
- police police pps, on page 122
- police police pps, on page 124
- policy-map, on page 126
- policy-map type control-plane, on page 127
- policy-map type network-qos, on page 128
- policy-map type psp, on page 129
- policy-map type queuing, on page 130
- policy, on page 131
- policy, on page 132
- pop, on page 133
- port-channel bfd destination, on page 134
- port-channel bfd start, on page 135
- port-channel bfd track-member-link, on page 136
- port-channel hash-distribution, on page 137
- port-channel limit, on page 138
- port-channel load-balance, on page 139
- port-channel load-balance1 ethernet, on page 140
- port-channel load-balance2 resilient, on page 141
- port-channel load-balance ethernet, on page 142
- port-channel load-balance hash-modulo-f2, on page 143
- port-channel load-balance hash enable, on page 144
- port-channel load-defer, on page 145
- port-channel min-links, on page 146
- port-channel port hash-distribution, on page 147

- port-channel port load-defer, on page 148
- port-profile, on page 149
- port-profile dump, on page 150
- port-profile no-redirect, on page 151
- port-security stop learning, on page 152
- port, on page 153
- port control, on page 154
- port control, on page 155
- port destination, on page 156
- power efficient-ethernet auto, on page 157
- power efficient-ethernet sleep threshold aggressive, on page 158
- power redundancy-mode combined, on page 159
- power redundancy-mode combined force, on page 160
- power redundancy-mode insrc-redundant, on page 161
- power redundancy-mode ps-redundant, on page 162
- power reserve, on page 163
- poweroff, on page 164
- pps, on page 165
- pps, on page 166
- precision milliseconds, on page 167
- preempt, on page 168
- preempt, on page 169
- preempt, on page 170
- preempt delay minimum, on page 171
- preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt, on page 172
- prefix out, on page 174
- priority-flow-control auto-restore multiplier, on page 175
- priority-flow-control fixed-restore multiplier, on page 176
- priority-flow-control mode, on page 177
- priority-flow-control override-interface mode off, on page 178
- priority-flow-control recover interface, on page 179
- priority-flow-control watch-dog-interval on, on page 180
- priority-flow-control watch-dog-interval on, on page 181
- priority-flow-control watch-dog interval, on page 182
- priority-flow-control watch-dog shutdown-multiplier, on page 183
- priority, on page 184
- priority2, on page 185
- priority, on page 186
- priority, on page 187
- priority, on page 188
- priority, on page 189
- priority, on page 190

- priority, on page 191
- priority, on page 192
- private-vlan, on page 193
- private-vlan association, on page 194
- private-vlan mapping, on page 195
- private-vlan release resource, on page 196
- private-vlan synchronize, on page 197
- probe, on page 198
- probe, on page 199
- probe, on page 200
- probe, on page 201
- probe, on page 202
- probe, on page 203
- probe get, on page 204
- probe get, on page 205
- probe get, on page 206
- probe get, on page 207
- probe get, on page 208
- probe get, on page 209
- probe host, on page 210
- probe host, on page 211
- probe host, on page 212
- probe host, on page 213
- probe host, on page 214
- probe host, on page 215
- probe port, on page 216
- probe port, on page 217
- probe port, on page 218
- probe port, on page 219
- probe port, on page 220
- probe port, on page 221
- promiscuous-mode off, on page 222
- propagate-sgt, on page 223
- protection, on page 224
- protocol, on page 225
- protocol shutdown, on page 226
- protocol shutdown, on page 227
- ptp, on page 228
- ptp announce interval, on page 229
- ptp announce timeout, on page 230
- ptp clock one-step, on page 231
- ptp delay-request minimum interval, on page 232
- ptp domain, on page 233
- ptp multicast master-only, on page 234
- ptp offload, on page 235
- ptp priority1, on page 236

- [ptp priority2](#), on page 237
- [ptp source](#), on page 238
- [ptp sync interval](#), on page 239
- [ptp time-sync](#), on page 240
- [ptp transport ipv4 ucast master](#), on page 241
- [ptp transport ipv4 ucast slave](#), on page 242
- [ptp ucast-source](#), on page 243
- [ptp vlan](#), on page 244
- [publish-event sub-system type](#), on page 245
- [pulse](#), on page 246
- [pulse](#), on page 247
- [pulse remove local](#), on page 248
- [purge ip route](#), on page 249
- [purge ipv6 route](#), on page 250
- [purge module running-config](#), on page 251
- [push](#), on page 252
- [pwd](#), on page 253
- [python](#), on page 254
- [python execute virtual-service command](#), on page 255
- [python instance](#), on page 256

packet

{ packet <hex-string> } | { no packet }

Syntax Description

no	Negate a command or set its defaults
packet	Provide flow details starting with ethernet header in hex-string format: 0A1B ..
<i>hex-string</i>	Specify flow and payload in hex string format: 0A1B..

Command Mode

- /exec/configure/configngoamprofileflow

param-list param-list

[no] param-list <plistname> [cross-check] | param-list <plistname>

Syntax Description

no	(Optional) Negate a command or set its defaults
param-list	Configure a parameter list
<i>plistname</i>	Enter the name of the parameter list
cross-check	(Optional) Explicitly search for referencing config profile

Command Mode

- /exec/configure

parity

[no] parity { even | none | odd }

Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
even	Even parity
none	No parity
odd	Odd parity

Command Mode

- /exec/configure/console

parity

[no] parity { even | none | odd }

Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
even	Even parity
none	No parity
odd	Odd parity

Command Mode

- /exec/configure/com1

passive-interface default

[no] passive-interface default

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

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

passive-interface default

[no] passive-interface default <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress IS-IS PDU
default	Undo a command
<i>level</i>	IS-IS level

Command Mode

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

passive-interface default

[no] passive-interface default

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

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

passive-interface default

[no] passive-interface default

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

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

password

```
password [ vrf { <vrf-name> | <vrf-known-name> } ] { required [ req-for <req-pfx-list> ] | { fallback | option
<seq-num> opt-for <opt-pfx-list> } { key-chain <name> } } | no password [ vrf { <vrf-name> |
<vrf-known-name> } ] { required | fallback | option <seq-num> }
```

Syntax Description

no	Negate a command or set its defaults
password	Configure LDP password
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
required	Password is required for the peer
req-for	(Optional) Prefix list specifying control on LDP peers
<i>req-pfx-list</i>	(Optional) Prefix list for LDP peers
fallback	Specifies a fallback password will follow
option	LDP password option
<i>seq-num</i>	Sequence number of the LDP password option
opt-for	Prefix list specifying control on LDP peers
<i>opt-pfx-list</i>	Prefix list for LDP peers
key-chain	Specifies a key-chain name will follow
<i>name</i>	Key-chain name

Command Mode

- /exec/configure/ldp

password

{ [no] password <passwd> }

Syntax Description

password	password
<i>passwd</i>	password

Command Mode

- /exec/configure/dot1x-cred

password

password <password-string> | { no | default } password [<password-string>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
password	Configure a password for neighbor
<i>password-string</i>	Neighbor password

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-neighbor-stmp
/exec/configure/router-bgp/router-bgp-vrf-neighbor
/exec/configure/router-bgp/router-bgp-template-neighbor
/exec/configure/router-bgp/router-bgp-prefixneighbor
/exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

password prompt username

[no] password prompt username

Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
prompt	Enable prompt for password
username	Enable prompt for password on username command

Command Mode

- /exec/configure

password secure-mode

[no] password secure-mode

Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
secure-mode	Enable secure mode for changing password

Command Mode

- /exec/configure

password strength-check

[no] password strength-check

Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
strength-check	Strength check of password

Command Mode

- /exec/configure

path-option dynamic explicit identifier

```
[no] path-option [ protect ] <pref> | path-option <pref> dynamic [ attributes <attr-name> | { bandwidth <kbps> | lockdown } + ] | path-option [ protect ] <pref> explicit { identifier <id-num> | name <name> } [ { attributes <attr-name> [ verbatim ] | { bandwidth <kbps> | lockdown | verbatim } + } ]
```

Syntax Description

no	Negate a command or set its defaults
path-option	a primary or fallback path setup option
protect	(Optional) a path protection setup option
<i>pref</i>	preference for this path option
dynamic	setup based on dynamically calculated path
explicit	setup based on preconfigured path
identifier	Specify an IP explicit path by number
<i>id-num</i>	Number of ip explicit path
name	Specify an IP explicit path by name
<i>name</i>	Name of ip explicit path
attributes	(Optional) Specify an LSP attribute list
<i>attr-name</i>	(Optional) Name of LSP attribute list
verbatim	(Optional) send out path as is, with no checking
bandwidth	(Optional) override the bandwidth configured on the tunnel
<i>kbps</i>	(Optional) bandwidth requirement in kbps
lockdown	(Optional) not a candidate for reoptimization
<i>kbps</i>	(Optional) bandwidth requirement in kbps
lockdown	(Optional) not a candidate for reoptimization

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

path-selection metric igp

[no] path-selection metric | path-selection metric { igp | te }

Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
metric	Metric type for path calculation
igp	Use IGP Metric
te	Use TE Metric

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

path-selection metric igp

path-selection metric { igp | te } | no path-selection metric

Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
metric	Metric Type Configuration
igp	Use IGP metric
te	Use TE metric (*Default)

Command Mode

- /exec/configure/te

path-selection overload allow

[no] path-selection overload allow | path-selection overload allow { head [middle] [tail] | middle [tail] | tail }

Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
overload	Overload Node Configuration
allow	Allow overloaded nodes in CSPFs
head	Allow overloaded head node in TE CSPF
middle	(Optional) Allow overloaded middle node in TE CSPF
tail	(Optional) Allow overloaded tail node in TE CSPF

Command Mode

- /exec/configure/te

path

path <dn> [depth { <level> | unbounded }] [query-condition <query>] [filter-condition <filter>] | no path <dn>

Syntax Description

no	Negate a command or set its defaults
path	Create a sensor path
depth	(Optional) Specify a retrieval depth
query-condition	(Optional) Specify a query condition
filter-condition	(Optional) Specify a filter condition
<i>dn</i>	Distinguished Name
unbounded	(Optional) Retrieve entire tree
<i>level</i>	(Optional) Retrieval depth
<i>query</i>	(Optional) query condition
<i>filter</i>	(Optional) Filter Condition

Command Mode

- /exec/configure/telemetry/sensor-group

path next-hop out-label-stack

```
{ no path <path-num> | path <path-num> next-hop <next-hop> out-label-stack { <static-outlabel> + |
implicit-null } }
```

Syntax Description

no	Negate a command or set its defaults
path	Configure an outgoing path for the LSP
<i>path-num</i>	Path identifier
next-hop	Nexthop
<i>next-hop</i>	Destination IPv4 next hop
out-label-stack	Series of output labels
<i>static-outlabel</i>	Label Value
implicit-null	IETF MPLS implicit null label (3)

Command Mode

- /exec/configure/mpls_static/ipv4/lsp/inlabel/forw

pathtrace nve

```
pathtrace nve { { { ip { <numeric10> | unknown } } [ vrf { <vrf-name> | <vrf-known-name> } ] { <dot1qid1>
} } } | mac <dmac> <dot1qid> <intfid> } [ profile <pid> ] [ payload { [ mac-addr <dstmac> <smac> ] [ dot1q
<dot1q-id> ] [ ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> ] [ port <sport> <dport> ] [ proto <proto-id> ]
[ src-intf <src_if> ] } payload-end ] [ copy-to <copy-to-ip> [ ext-id <ext_id> ] ] [
```

Syntax Description

pathtrace	Test
nve	network virtualization edge
<i>numeric10</i>	Peer vtep ip address
unknown	Peer vtep ip is unknown, will be derived from payload
<i>intfid</i>	Name of the interface for ngoam pathtrace on which dot1q is configured
payload	(Optional) Enter customer payload
mac-addr	(Optional) Mac
<i>dstmac</i>	(Optional) Destination mac address
<i>smac</i>	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
ip	ip address
<i>dstip</i>	(Optional) Destination ipv4 address
<i>srcip</i>	(Optional) source ipv4 address
ipv6	(Optional) ipv6 address
port	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
proto	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
<i>src_if</i>	(Optional) Interface
payload-end	(Optional) End payload info input

<code>profile</code>	(Optional) NGOAM profile to use
<code>pid</code>	(Optional) NGOAM profile id
<code>mac</code>	Mac
<code>dmac</code>	Destination mac address
<code>dot1qid</code>	Encapsulation dot1q/bd on which the mac is learnt
<code>dot1qid1</code>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<code>vrf</code>	(Optional) Display per-VRF information
<code>vrf-name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(Optional) Known VRF name
<code>copy-to</code>	(Optional) Send responses to this IP over mgmt vrf instead
<code>copy-to-ip</code>	(Optional) IPv4 addr to send responses to
<code>ext-id</code>	(Optional) Identifier passed from caller
<code>ext_id</code>	(Optional) 32-bit identifier

Command Mode

- /exec

pause

[no] pause { buffer-size <size-in-bytes> pause-threshold <xoff-bytes> resume-threshold <xon-bytes> }

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
buffer-size	Ingress buffer size in bytes
pause-threshold	Buffer limit for pausing in bytes
resume-threshold	Buffer limit at which to resume in bytes

Command Mode

- /exec/configure/policy-map/type/queuing/class

pause

```
[no] pause { no-drop | { delayed-drop <timeout> } | [ buffer-size <size-in-bytes> pause-threshold <xoff-bytes>
resume-threshold <xon-bytes> ] pfc-cos <pfc-cos-list> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE charecteristics (CBFC)
no-drop	NO-DROP
delayed-drop	Enable delayed-drop for the CoS
<i>timeout</i>	Timer value for delayed drop
buffer-size	(Optional) Ingress buffer size in bytes
pause-threshold	(Optional) Buffer limit for pausing in bytes
resume-threshold	(Optional) Buffer limit at which to resume in bytes
pfc-cos	CoS values to assert PFC on
<i>pfc-cos-list</i>	List of class-of-service values

Command Mode

- /exec/configure/policy-map/type/uf/class

pause buffer-size2 pause-threshold2 resume-threshold2

[no] pause buffer-size2 <size-in-bytes> pause-threshold2 <xoff-bytes> resume-threshold2 <xon-bytes>

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
buffer-size2	Ingress buffer size in bytes
pause-threshold2	Buffer limit for pausing in bytes
resume-threshold2	Buffer limit at which to resume in bytes

Command Mode

- /exec/configure/policy-map/type/queuing/class

pause priority

[no] pause { priority-group <priority-group-number> }

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
priority-group	ingress priority-group to which the traffic is mapped and pause limits are applied
<i>priority-group-number</i>	Priority group value

Command Mode

- /exec/configure/policy-map/type/queuing/class

payload test pattern-type pad

{ payload { test pattern-type <test-id> | pad <pad-val> } } | { no payload { test pattern-type | pad } }

Syntax Description

no	Negate a command or set its defaults
payload	Configure ngoam payload
test	Configure ngoam payload test
pattern-type	Configure ngoam payload test pattern
<i>test-id</i>	Configure ngoam payload test pattern id
pad	Configure ngoam payload test pattern pad
<i>pad-val</i>	Configure ngoam payload test pad value

Command Mode

- /exec/configure/configngoamprofile

peer-gateway

```
peer-gateway [ [ exclude-vlan <vlan-list> ] ] [ [ exclude-bridge-domain<bridge-domain-list> ] ] | no peer-gateway
```

Syntax Description

no	Negate a command or set its defaults
peer-gateway	Enable L3 forwarding for packets destined to peer's gateway mac-address
exclude-vlan	(Optional) Specify VLANs to be excluded from peer-gateway functionality
<i>vlan-list</i>	(Optional) Specify the list of vlans

Command Mode

- /exec/configure/vpc-domain

peer-ip

[no] peer-ip <addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer-ip	Static IP Address Configuration
<i>addr</i>	Remote Peer IP Address

Command Mode

- /exec/configure/if-nve/vni/ingr-rep

peer-keepalive destination

```
peer-keepalive destination <dst-ip> [ [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> |
<vrf-known-name> } | { interval <interval-ms> timeout <time-out> } | tos-byte <tos-byte-value> | hold-timeout
<hold-time-out> ] + ] [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> | <vrf-known-name>
} | { interval <interval-ms> timeout <time-out> } | tos { <tos-value> | min-delay | max-throughput |
max-reliability | min-monetary-cost | normal } | hold-timeout <hold-time-out> ] + ] [ source <src-ip> | udp-port
<udp-port-num> | vrf { <vrf-name> | <vrf-known-name> } | { interval <interval-ms> timeout <time-out> } |
precedence { <prec-vlaue> | network | internet | critical | flash-override | flash | immediate | priority | routine
} | hold-timeout <hold-time-out> ] + ]
```

Syntax Description

peer-keepalive	Keepalive/Hello with peer switch
destination	specify destination ip address of peer switch
<i>dst-ip</i>	IPv4 address (A.B.C.D) of destination
source	(Optional) source interface for hello
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source
udp-port	(Optional) enter UDP port number used for hello
<i>udp-port-num</i>	(Optional) udp port number for hellos
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-known-name</i>	(Optional) Known VRF name
interval	(Optional) enter interval in milliseconds
<i>interval-ms</i>	(Optional) Enter interval in milliseconds
timeout	(Optional) enter timeout in seconds
<i>time-out</i>	(Optional) enter timeout in seconds
precedence	(Optional) Precedence
<i>prec-vlaue</i>	(Optional) Precedence value
network	(Optional) network (7)
internet	(Optional) internet (6)
critical	(Optional) critical (5)
flash-override	(Optional) flash-override (4)
flash	(Optional) flash (3)

immediate	(Optional) immediate (2)
priority	(Optional) priority (1)
routine	(Optional) routine (0)
tos	(Optional) Type of Service(IPV4)/Traffic Class(IPV6)
<i>tos-value</i>	(Optional) Enter 4-bit TOS value
min-delay	(Optional) min-delay (8)
max-throughput	(Optional) max-throughput (4)
max-reliability	(Optional) max-reliability (2)
min-monetary-cost	(Optional) min-monetary-cost (1)
normal	(Optional) normal (0)
tos-byte	(Optional) Type of Service Byte (IPv4)/Traffic Class Octet(IPv6)
<i>tos-byte-value</i>	(Optional) Enter 8-bit TOS value
hold-timeout	(Optional) hold timeout to ignore stale peer alive messages
<i>hold-time-out</i>	(Optional) Enter hold-timeout in seconds

Command Mode

- /exec/configure/vpc-domain

peer-switch

[no] peer-switch

Syntax Description

no	(Optional) Negate a command or set its defaults
peer-switch	Enable peer switch on vPC pair switches

Command Mode

- /exec/configure/vpc-domain

peer-type fabric

peer-type { fabric-external | fabric-border-leaf } | { no | default } peer-type

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
peer-type	Neighbor facing
fabric-external	Fabric external
fabric-border-leaf	Fabric Border Leaf

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

peer-vtep

[no] peer-vtep <addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer-vtep	Configure tunnel End Point
<i>addr</i>	Remote VTEP IP Address

Command Mode

- /exec/configure/if-nve/vni

peer ip

[no] peer ip <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	ITD peer
ip	ITD peer ip
<i>ip-addr</i>	NICE node IP prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-inout

peer ip

[no] peer ip <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	ITD peer
ip	ITD peer ip
<i>ip-addr</i>	NICE node IP prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-inout

peer local service

[no] peer local service <service-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	Peer cli for sandwich mode failure notification
local	Peer involved in sandwich mode
service	Peer service involved in sandwich mode
<i>service-name</i>	Peer service name string

Command Mode

- /exec/configure/itd

peer vdc service

[no] peer vdc <vdc-id> service <service-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	Peer cli for sandwich mode failure notification
vdc	Peer VDC involved in sandwich mode
service	Peer service involved in sandwich mode
<i>vdc-id</i>	VDC name of peer VDC
<i>service-name</i>	Peer service name string

Command Mode

- /exec/configure/itd

peer vdc service

[no] peer vdc <vdc-id> service <service-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	Peer cli for sandwich mode failure notification
vdc	Peer VDC involved in sandwich mode
service	Peer service involved in sandwich mode
<i>vdc-id</i>	VDC name of peer VDC
<i>service-name</i>	Peer service name string

Command Mode

- /exec/configure/itd

perf

```
perf [ { record { context-switch | profile } { system | process <i0> } [ <s1> ] } | { stop { all | <s0> } } | { list
} | { create-archive <s2> } | { remove { all | <s3> } } ]
```

Syntax Description

perf	Run perf tool to collect or process event data
record	(Optional) Record events to a file for later analysis
stop	(Optional) Stop a perf record.
list	(Optional) List recorded datasets
create-archive	(Optional) Create an archive of dataset for download
remove	(Optional) Remove recorded dataset(s)
all	(Optional) Act on all recorded datasets
context-switch	(Optional) Record context-switch events
profile	(Optional) Record periodic runtime samples
system	(Optional) Record events for all processes on all CPUS
process	(Optional) Record events for a specific process with the given pid
<i>i0</i>	(Optional) pid of process to record events
<i>s0</i>	(Optional) id of perf record session to stop
<i>s1</i>	(Optional) id to use for perf record session
<i>s2</i>	(Optional) id of perf dataset to create an archive
<i>s3</i>	(Optional) id of perf dataset to remove

Command Mode

- /exec

periodic-inventory notification

[no] periodic-inventory notification

Syntax Description

no	(Optional) Negate a command or set its defaults
periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch

Command Mode

- /exec/configure/callhome

periodic-inventory notification interval

```
periodic-inventory notification { interval <i0> | timeofday <s0> }
```

Syntax Description

periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch
interval	Configure the time period for periodic inventory
<i>i0</i>	Time period in days (default is 7 days)
timeofday	Configure the timeofday for periodic inventory in HH:MM format
<i>s0</i>	Time period in HH:MM format

Command Mode

- /exec/configure/callhome

periodic to

{ [<seqno>] | no } periodic { { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday } +
| daily | weekdays | weekend } <stime> to <etime>

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
periodic	Periodic time and date
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday
daily	Every day of the week
weekdays	Monday thru Friday
weekend	Saturday and Sunday
<i>stime</i>	Starting time
to	Ending day and time
<i>etime</i>	Ending time

Command Mode

- /exec/configure/timerange

periodic to

```
{ [ <seqno> ] | no } periodic { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday }
<stime> to { <eday> } <etime>
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
periodic	Periodic time and date
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday
<i>eday</i>	Day of the week
<i>stime</i>	Starting time
to	Ending day and time
<i>etime</i>	Ending time

Command Mode

- /exec/configure/timerange

permit

```
[no] permit { <proto_icmp> | <proto_igmp> | <proto_ip> | <proto_all> | { { <proto_tcp> | <proto_udp> } [
  { src <src_port_op> <src_port1_num> } | { src <src_port_range_op> <src_port1_num> <src_port2_num> }
] [ { { dest | dst } <dest_port_op> <dest_port1_num> } | { { dest | dst } <dest_port_range_op>
  <dest_port1_num> <dest_port2_num> } ] } } [ log ]
```

Syntax Description

permit	Permit
<i>proto_tcp</i>	Protocol
<i>proto_udp</i>	Protocol
<i>proto_icmp</i>	Protocol
<i>proto_igmp</i>	Protocol
<i>proto_ip</i>	Protocol
<i>proto_all</i>	Protocol
<i>src_port_op</i>	(Optional) Source Port operator
<i>dest_port_op</i>	(Optional) Destination Port operator
<i>src_port_range_op</i>	(Optional) Source Port-Range operator
<i>dest_port_range_op</i>	(Optional) Destination Port-Range operator
<i>src_port1_num</i>	(Optional) Source port number
<i>src_port2_num</i>	(Optional) Source port number
<i>dest_port1_num</i>	(Optional) Destination port number
<i>dest_port2_num</i>	(Optional) Destination port number
src	(Optional) Configure source port parameters
dest	(Optional) Configure destination port parameters
dst	(Optional) Configure destination port parameters
log	(Optional) Log matches against this entry

Command Mode

- /exec/configure/rbacl

permit interface

[no] permit interface <if0>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to interfaces (applicable if interface policy is 'deny')
interface	Enter the range of interfaces accessible the role
<i>if0</i>	Enter the interface range

Command Mode

- /exec/configure/role/interface

permit vlan

[no] permit vlan <vlan-mrange>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vlans (applicable if vlan policy is 'deny')
vlan	Enter the range of vlans accessible the role
<i>vlan-mrange</i>	Enter the vlan range

Command Mode

- /exec/configure/role/vlan

permit vrf

[no] permit vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vrf (applicable if vrf policy is 'deny')
vrf	Enter the range of vrf accessible the role
<i>vrf-name</i>	Enter the vrf name

Command Mode

- /exec/configure/role/vrf

permit vsan

[no] permit vsan <vsan-mrange>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vsans (applicable if vsan policy is 'deny')
vsan	Enter the range of vsans accessible the role
<i>vsan-mrange</i>	Enter the vsan range

Command Mode

- /exec/configure/role/vsan

personality

[no] personality

Syntax Description

no	(Optional) Negate a mode
personality	Config Personality

Command Mode

- /exec/configure

personality backup

```
personality backup { <uri_local> | <uri_remote> [ password <password> ] [ vrf <vrf-known-name> ] }
```

Syntax Description

personality	personality
backup	backup personality
password	(Optional) The password for personality backups
vrf	(Optional) The VRF for personality backups
<i>uri_local</i>	Personality backup local destination
<i>uri_remote</i>	Personality backup remote destination
<i>password</i>	(Optional) Password for SCP username
<i>vrf-known-name</i>	(Optional) VRF name

Command Mode

- /exec

personality restore

```
personality restore <uri> [ user-name <user> ] [ password <password> ] [ hostname <hostname> ] [ vrf
<vrf_name> ]
```

Syntax Description

personality	Personality
restore	Restore the personality file
<i>uri</i>	Personality file
user-name	(Optional) The username for downloads
<i>user</i>	(Optional) The username
password	(Optional) The password for downloads
<i>password</i>	(Optional) The password
hostname	(Optional) The hostname for downloads
<i>hostname</i>	(Optional) The hostname
vrf	(Optional) The VRF for downloads
<i>vrf_name</i>	(Optional) The VRF name

Command Mode

- /exec

phone-contact

{ phone-contact <s0> | no phone-contact }

Syntax Description

no	Negate a command or set its defaults
phone-contact	Contact person's phone number
s0	Phone number in international format(such as +1-800-123-4567)

Command Mode

- /exec/configure/callhome

ping

```
ping [ { { <alpha> | <numeric> [ loopback interface <interface> ] } | { multicast <group> interface <interface>
[ loopback ] } } [ [ source-interface <src-intf> | vrf { <vrf-name> | <vrf-known-name> } ] [ count { <count>
| unlimited } | packet-size <packetsize> | vrf { <vrf-name> | <vrf-known-name> } | interval <interval> | source
{ <alpha> | <numeric1> } | df-bit | timeout <timeout> } + [ count { <count> | unlimited } | packet-size
<packetsize> | source-interface <src-intf> | interval <interval> | df-bit | timeout <timeout> } + ] ]
```

Syntax Description

ping	Test
count	(Optional) Number
unlimited	(Optional) Unlimited
<i>count</i>	(Optional) Number
packet-size	(Optional) Packet
<i>packetsize</i>	(Optional) Size
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface
interval	(Optional) Wait
<i>interval</i>	(Optional) Interval
<i>numeric</i>	(Optional) IP address of remote system
<i>numeric1</i>	(Optional) IP
<i>alpha</i>	(Optional) Enter
multicast	(Optional) Multicast
<i>group</i>	(Optional) Multicast
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface
loopback	(Optional) Receive
source	(Optional) Source
df-bit	(Optional) Enable
timeout	(Optional) Specify
<i>timeout</i>	(Optional) Timeout
vrf	(Optional) Display per-VRF information

<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

ping6

```
ping6 { { <host> | <hostname> } | { multicast <group> } } [ [ { count { <count> | unlimited } } | { packet-size
<packetsize> } | [ source { <host1> | <hostname> } ] | vrf { <vrf-name> | <vrf-known-name> } | timeout
<timeout> | { interval <interval> } ] + [ [ { count { <count> | unlimited } } | { packet-size <packetsize> } | {
source-interface <src-intf> } | timeout <timeout> | { interval <interval> } ] + ]
```

Syntax Description

ping6	Test
count	(Optional) Number
<i>count</i>	(Optional) Number
unlimited	(Optional) unlimited
packet-size	(Optional) Packet
<i>packetsize</i>	(Optional) Size
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface
interval	(Optional) Wait
<i>interval</i>	(Optional) Interval
<i>hostname</i>	Enter
multicast	Multicast
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source
timeout	(Optional) Specify
<i>timeout</i>	(Optional) Timeout

Command Mode

- /exec

ping nve

```
ping nve { { { { ip { <numeric10> | <numeric11> | unknown } } [ vrf { <vrf-name> | <vrf-known-name>
} ] { <dot1qid1> } ] } | mac <dmac> <dot1qid> <intfid> } [ profile <pid> ] } [ payload { [ mac-addr <dstmac>
<smac> ] [ dot1q <dot1q-id> ] [ ip <dstip> <srcip> | ipv6 <dstip6> <srcip6> ] [ port <sport> <dport> ] [
proto <proto-id> ] [ src-intf <src_if> ] } payload-end ] [ source { <numeric1> | <numeric2> } ] |
```

Syntax Description

{	<count>
ping	Test
nve	network virtualization edge
<i>numeric10</i>	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, Applicable only for channel Nv03
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>intfid</i>	Name of the interface for ngoam ping on which dot1q is configured
payload	(Optional) Enter customer payload
port	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
proto	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
<i>src_if</i>	(Optional) Interface
payload-end	(Optional) End of payload info
profile	(Optional) NGOAM profile to use
<i>pid</i>	(Optional) NGOAM profile id
mac	Mac
mac-addr	(Optional) Mac
ip	ip address
<i>dstip</i>	(Optional) Destination ipv4 address
<i>srcip</i>	(Optional) source ipv4 address

<code>ipv6</code>	(Optional) ipv6 address
<code>dmac</code>	Destination mac address
<code>dstmac</code>	(Optional) Destination mac address
<code>smac</code>	(Optional) Source mac address
<code>dot1q</code>	(Optional) Encapsulation dot1q/bd
<code>dot1q-id</code>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<code>dot1qid1</code>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<code>vrf</code>	(Optional) Display per-VRF information
<code>vrf-name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(Optional) Known VRF name
<code>source</code>	(Optional) Source
<code>numeric1</code>	(Optional) IP

Command Mode

- /exec

pinning max-links

pinning max-links <max-flinks> | no pinning max-links

Syntax Description

no	Negate the command
pinning	Pinning configurations
max-links	Number of Fabric links
<i>max-flinks</i>	Number of fabric links

Command Mode

- /exec/configure/fex handle auto 619

pinning mode

pinning mode [static | dynamic | least-used | static-dist] | no pinning mode

Syntax Description

no	Negate the command
pinning	Pinning configurations
mode	Pinning mode
static	(Optional) Static pinning mode
dynamic	(Optional) Dynamic pinning mode
least-used	(Optional) Least used pinning mode
static-dist	(Optional) Static uneven pinning mode

Command Mode

- /exec/configure/fex

pktmgr cache disable

{ [no] pktmgr cache disable }

Syntax Description

no	(Optional) Negate a command or set its defaults
pktmgr	packet manager
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

pktmgr discard

```
{ [ no ] pktmgr discard [ type <type> ] [ direction <direction> ] [ detail ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
pktmgr	packet manager
discard	discard CPI-bound output packets
detail	(Optional) detailed discard info
direction	(Optional) pm debug-filter direction
<i>direction</i>	(Optional) pm direction
type	(Optional) Driver type
<i>type</i>	(Optional) Driver type

Command Mode

- /exec

platform access-list capture

[no] { platform | hardware } access-list capture

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
capture	Configure ACL capture

Command Mode

- /exec/configure

platform access-list fp_dnl

[no] { platform | hardware } access-list fp_dnl

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access control list
fp_dnl	Fabric path - do not learn mac from broadcast

Command Mode

- /exec/configure

platform access-list update

[no] { platform | hardware } access-list update { { atomic [strict] } | { default-result permit } }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
update	Configure atomic/non-atomic update and default-result
atomic	Enable atomic update of access-list in hardware
strict	(Optional) Strict check on TCAM size for using mutliple features
default-result	Default access-list result during non-atomic hardware update
permit	Permit all packets during non-atomic update

Command Mode

- /exec/configure

platform fabricpath mac-learning module

[no] { platform | hardware } fabricpath mac-learning module <module> [port-group { 1-4 | 5-8 | 9-12 | 13-16 | 17-20 | 21-24 | 25-28 | 29-32 | 33-36 | 37-40 | 41-44 | 45-48 } +]

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
fabricpath	Fabric Path
mac-learning	MAC Learning
module	Specify a module number
<i>module</i>	Specify a module number
port-group	(Optional) Port Group

Command Mode

- /exec/configure

platform forwarding interface statistics mode mpls

```
[no] { platform | hardware } forwarding interface statistics mode { mpls | default } [ module <module-num> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
forwarding	Hardware forwarding
interface	Interface
statistics	Statistics
mode	Statistics mode
mpls	Mpls mode
default	Default mode
module	(Optional) Specify a module number
<i>module-num</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform forwarding layer-2 f1 exclude supervisor

[no] { platform | hardware } forwarding layer-2 f1 exclude supervisor

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
forwarding	Forwarding information
layer-2	L2 only mode
f1	N7K-F132XP-15 module
exclude	Exclude supervisor from getting copies of ARP and multicast packets
supervisor	Supervisor module

Command Mode

- /exec/configure

platform ip verify

```
[no] { platform | hardware } ip verify { address { source { broadcast | multicast } | class-e | destination { zero
} | identical | reserved } | checksum | protocol | fragment | length { minimum | consistent | maximum { max-frag
| udp | max-tcp } } | tcp { tiny-frag } | version | syslog }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ip	IP
verify	Enable IPv4 and some IPv6 packet validation checks in hardware
address	IPv4 Source and destination address validation
source	Check source address
broadcast	Source address is 255.255.255.255
multicast	Source address is 224.x.x.x
destination	Check destination address
zero	Destination address is 0.0.0.0
class-e	Class E IDS check
identical	Same IP SA and DA
reserved	Source address is 127.x.x.x
checksum	Verify IPv4 and IPv6 packet checksum
protocol	Verify IP protocol
fragment	Check IPv4 and IPv6 fragment with non-zero offset and DF bit active
length	Validate IPv4 packet header and payload length
minimum	Minimum IPv4 header length
consistent	Actual frame size is equal to or more than IPv4 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv4 payload length

max-tcp	Maximum TCP length has to be less than IPv4 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 4 for an ethertype of IPv4 (0x0800)
syslog	Syslog Messages logging configuration for IDS check drops

Command Mode

- /exec/configure

platform ipv6 verify

```
[no] { platform | hardware } ipv6 verify { length { consistent | maximum { max-frag | udp | max-tcp } } | tcp
{ tiny-frag } | version }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ipv6	IPv6
verify	Enable IPv6 packet validation checks in hardware
length	Validate IPv6 packet header and payload length
consistent	Actual frame size is equal to or more than IPv6 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv6 payload length
max-tcp	Maximum TCP length has to be less than IPv6 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 6 for an ethertype of IPv6 (0x86DD)

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { dynamic-packet-prioritization age-period <period> usec [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
dynamic-packet-prioritization	Dynamic Packet Prioritization
age-period	Aging Period
<i>period</i>	Aging Period
usec	micro seconds
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { afd profile <prof-opts> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
afd	Approximate Fair Dropping
profile	AFD profiles
<i>prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { min-buffer qos-group <buff-prof-opts> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
min-buffer	minimum/reserved buffer selection
qos-group	Qos Group
<i>buff-prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { ns-mcq3-alias qos-group <qos-grp-val> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure QoS related configuration
ns-mcq3-alias	Select qos-group to which to divert qos-group-3 Multicast traffic
qos-group	Qos Group
<i>qos-grp-val</i>	QoS group value
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { ing-pg-hdrm-reserve percent <percent-val> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ing-pg-hdrm-reserve	Set Ingress PG Headroom reservation
percent	PG Headroom reservation percent
<i>percent-val</i>	percent of PG Headroom to reserve
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { burst-detect max-records <val> }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
burst-detect	Set OOBST burst monitor configs
max-records	Set OOBST burst monitor max records
<i>val</i>	maximum number of records to monitor

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { oq-drops type <sel> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
oq-drops	per output queue drops
type	type of drops - occ/wred/both
<i>sel</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { dynamic-packet-prioritization max-num-pkts <pkts> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
dynamic-packet-prioritization	Dynamic Packet Prioritization
max-num-pkts	Maximum number of packets prioritized
<i>pkts</i>	Number of packets
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { etrap age-period <period> usec [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
age-period	Aging Period
<i>period</i>	Aging Period
usec	micro seconds
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { etrap byte-count <count> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
byte-count	Number of bytes to become elephant flow
<i>count</i>	Number of bytes
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { etrap bandwidth-threshold <bw> bytes [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
bandwidth-threshold	Bandwidth threshold for elephant flow
<i>bw</i>	Number of bytes
bytes	Bytes
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { buffer input peak <sel> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
input	input buffer
peak	peak counter type
<i>sel</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos buffer peak monitor counter0 class

[no] { platform | hardware } qos buffer peak monitor counter0 class <classes>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
peak	Configure peak control
monitor	monitor peak
counter0	selecting counter 0 for assigning classes
class	class(es) to monitor
<i>classes</i>	qos-group

Command Mode

- /exec/configure

platform qos buffer peak monitor counter1 class

[no] { platform | hardware } qos buffer peak monitor counter1 class { <classes> | none }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
peak	Configure peak control
monitor	monitor peak
counter1	selecting counter 1 for assigning classes
class	class(es) to monitor
<i>classes</i>	qos-group
none	none

Command Mode

- /exec/configure

platform qos classify ns-only

[no] { platform | hardware } qos classify ns-only

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Quality Of Service
classify	Configure qos classification
ns-only	Enable qos classification on NS only in hardware

Command Mode

- /exec/configure

platform qos eoq

```
[no] { platform | hardware } qos eoq { stats-class qos-group { all | <qos-grp-val> } [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure QoS related configuration
eoq	Extended Output Queue(EOQ) related configuration
stats-class	Select class for which to report the statistics
qos-group	Qos Group
<i>qos-grp-val</i>	QoS group value
all	all Qos Groups
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos include ipg

[no] { platform | hardware } qos include { ipg [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
include	include specific configuration param
ipg	Select whether to include IPG in Shaping/Policing
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos ing

[no] { platform | hardware } qos { ing-pg-no-min [pgmin <pgmin>] [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ing-pg-no-min	Enable PG Min
pgmin	(Optional) Set PG Min Value
<i>pgmin</i>	(Optional) PG Min Value
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos ing

```
[no] { platform | hardware } qos { ing-pg-share [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ing-pg-share	Select Ingress PG Shared Buffer Usage
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos mac ipg

{ platform | hardware } qos mac ipg <val> | no { platform | hardware } qos mac ipg [<val>]

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
mac	MAC
ipg	Mac IPG Value
<i>val</i>	new Mac IPG value in byte

Command Mode

- /exec/configure

platform qos nodrop-PG-thresholds PG-size Red-threshold Yellow-threshold Green-threshold

[no] { platform | hardware } qos nodrop-PG-thresholds PG-size <pg-total> Red-threshold <pg-red> Yellow-threshold <pg-yellow> Green-threshold <pg-green>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
nodrop-PG-thresholds	Configure No-drop Pool Group thresholds
PG-size	Configure No-drop Pool Group size
<i>pg-total</i>	Pool Group size
Red-threshold	Configure No-drop PG red threshold
<i>pg-red</i>	PG red threshold
Yellow-threshold	Configure No-drop PG yellow threshold
<i>pg-yellow</i>	PG yellow threshold
Green-threshold	Configure No-drop PG green threshold
<i>pg-green</i>	PG green threshold

Command Mode

- /exec/configure

platform qos nodrop-queue-thresholds Queue-yellow Queue-green

[no] { platform | hardware } qos nodrop-queue-thresholds Queue-yellow <q-yellow> Queue-green <q-green>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
nodrop-queue-thresholds	Configure No-drop PG's Queue thresholds
Queue-yellow	Configure No-drop queue yellow threshold
<i>q-yellow</i>	Queue yellow threshold
Queue-green	Configure No-drop PG green threshold
<i>q-green</i>	PG green threshold

Command Mode

- /exec/configure

platform qos ns

```
[no] { platform | hardware } qos { ns-buffer-profile <buff-prof-opts> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ns-buffer-profile	NorthStar buffer absorption profiles
<i>buff-prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos q-noise percent

[no] { platform | hardware } qos q-noise percent <noise>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
q-noise	Configure noise thresholds
percent	Noise threshold in percentage of dynamic/static queue_max
<i>noise</i>	Noise percent

Command Mode

- /exec/configure

platform rate-limiter

```
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } |
<opts> | fl <f1-opts> } { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } |
<opts> | fl <f1-opts> } [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
<i>pps</i>	value in kbits per sec
fl	Control packets from F1 modules to supervisor
<i>f1-opts</i>	
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter

```
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } |
<opts> | fl <f1-opts> } { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } |
<opts> | fl <f1-opts> } [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
<i>pps</i>	value in packets per sec
fl	Control packets from F1 modules to supervisor
<i>f1-opts</i>	
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter access-list-log

```
{ platform | hardware } rate-limiter access-list-log { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no { platform | hardware } rate-limiter access-list-log [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
access-list-log	Packets copied to supervisor for access-list logging
<i>pps</i>	value in packets per sec
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter span-egress

```
{ platform | hardware } rate-limiter span-egress <rate> [ module <module> ] | no { platform | hardware }
rate-limiter span-egress [ <rate> ] [ module <module> ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
span-egress	SPAN/ERSPAN egress packets
<i>rate</i>	value in kbit per sec
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

plugin-test load

```
plugin-test load <uri0> [ [ <uri1> ] [ <uri2> ] ]
```

Syntax Description

plugin-test	PLUGIN test
load	PLUGIN test load
<i>uri0</i>	Enter image name
<i>uri1</i>	(Optional) Enter image name
<i>uri2</i>	(Optional) Enter image name

Command Mode

- /exec

plugin-test unload

plugin-test unload <s0> [[<s1>] [<s2>]]

Syntax Description

plugin-test	PLUGIN test
unload	plugin test unload
<i>s0</i>	Enter swid
<i>s1</i>	(Optional) Enter swid
<i>s2</i>	(Optional) Enter swid

Command Mode

- /exec

police

```
[no] police { { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps ] | percent <cir-perc> } [ [ bc ] { <committed-burst>
[ bytes | kbytes | mbytes | ms | us ] } ] [ pir { <pir-val> [ bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent <pir-perc>
} [ [ be ] { <extended-burst> [ bytes2 | kbytes2 | mbytes2 | ms2 | us2 | packets2 ] } ] ] [ conform { transmit |
set-prec-transmit { <prec-val> | <prec-enum> } | set-dscp-transmit { <dscp-val> | <dscp-enum> } |
set-cos-transmit <cos-val> | set-discard-class-transmit <disc-class-val> | set-qos-transmit <qos-grp-val> |
set-mpls-exp-imposition-transmit <exp-value-imp> | set-mpls-exp-topmost-transmit <exp-value-top> } [
exceed { transmit1 | drop1 | set <exc-frm-field> <exc-to-field> table cir-markdown-map | set-prec-transmit1
{ <prec-val1> | <prec-enum1> } | set-dscp-transmit1 { <dscp-val1> | <dscp-enum1> } | set-cos-transmit1
<cos-val1> | set-discard-class-transmit1 <disc-class-val1> | set-qos-transmit1 <qos-grp-val1> |
set-mpls-exp-imposition-transmit1 <exp-value-imp1> | set-mpls-exp-topmost-transmit1 <exp-value-top1> }
] [ violate { drop2 | set <vio-frm-field> <vio-to-field> table2 pir-markdown-map | set-prec-transmit2 {
<prec-val2> | <prec-enum2> } | set-dscp-transmit2 { <dscp-val2> | <dscp-enum2> } | set-cos-transmit2
<cos-val2> | set-discard-class-transmit2 <disc-class-val2> | set-qos-transmit2 <qos-grp-val2> |
set-mpls-exp-imposition-transmit2 <exp-value-imp2> | set-mpls-exp-topmost-transmit2 <exp-value-top2> }
] ] } | aggregate <policer-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
police	police
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second

pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
transmit1	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)
<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it

set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit

<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action
aggregate	Choose aggregate policer for current class
<i>policer-name</i>	Enter aggregate-policer name

Command Mode

- /exec/configure/policy-map/class

police

```
[no] police { { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps | pps ] | percent <cir-perc> } [ [ bc ] {
<committed-burst> [ bytes | kbytes | mbytes | ms | us | packets ] } ] [ pir { <pir-val> [ bps2 | kbps2 | mbps2 |
gbps2 | pps2 ] | percent <pir-perc> } [ [ be ] { <extended-burst> [ bytes2 | kbytes2 | mbytes2 | ms2 | us2 |
packets2 ] } ] } ] [ conform { transmit | set-prec-transmit { <prec-val> | <prec-enum> } | set-dscp-transmit {
<dscp-val> | <dscp-enum> } | set-cos-transmit <cos-val> | set-discard-class-transmit <disc-class-val> |
set-qos-transmit <qos-grp-val> | set-mpls-exp-imposition-transmit <exp-value-imp> |
set-mpls-exp-topmost-transmit <exp-value-top> } ] [ exceed { transmit1 | drop1 | set <exc-frm-field>
<exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1> | <prec-enum1> } | set-dscp-transmit1
{ <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> | set-discard-class-transmit1 <disc-class-val1>
| set-qos-transmit1 <qos-grp-val1> | set-mpls-exp-imposition-transmit1 <exp-value-imp1> |
set-mpls-exp-topmost-transmit1 <exp-value-top1> } ] [ violate { drop2 | set <vio-frm-field> <vio-to-field>
table2 pir-markdown-map | set-prec-transmit2 { <prec-val2> | <prec-enum2> } | set-dscp-transmit2 {
<dscp-val2> | <dscp-enum2> } | set-cos-transmit2 <cos-val2> | set-discard-class-transmit2 <disc-class-val2>
| set-qos-transmit2 <qos-grp-val2> | set-mpls-exp-imposition-transmit2 <exp-value-imp2> |
set-mpls-exp-topmost-transmit2 <exp-value-top2> } ] } | aggregate <policer-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
police	police
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
pps	(Optional) Packets per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second

gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
packets	(Optional) Packets
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
transmit1	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)

<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit

set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action
aggregate	Choose aggregate policer for current class
<i>policer-name</i>	Enter aggregate-policer name

Command Mode

- /exec/configure/policy-map/class

police

```
[no] police [ { { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { { [ bc ]
<bc-val> [ <opt_kbytes_mbytes_gbytes_bc> ] } } } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] |
percent1 <pir-perc> } } [ { [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] } ] } } { { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] } } ] }
```

Syntax Description

no	Negate a command or set its defaults
police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional) Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map

Command Mode

- /exec/configure/pmap/class

police

```
[no] police [ { { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { { [ bc ]
<bc-val> [ <opt_kbytes_mbytes_gbytes_bc> ] } } } { { [ pir ] { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] |
percent1 <pir-perc> } } { { [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] } } ] } { { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] } } ] }
```

Syntax Description

no	Negate a command or set its defaults
police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional) Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map

Command Mode

- /exec/configure/pmap/class

police police pps

```

police { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ] <bc-val>
[ <opt_kbytes_mbytes_gbytes_bc> ] ] } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] | percent1
<pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } } ] } | police { pps {
<pps-val> } }

```

Syntax Description

police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map
pps	Specify PPS rate limit

Command Mode

- /exec/configure/pmap/class

police police pps

```

police { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ] <bc-val>
[ <opt_kbytes_mbytes_gbytes_bc> ] ] } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] | percent1
<pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } } ] } | police { pps {
<pps-val> } }

```

Syntax Description

police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map
pps	Specify PPS rate limit

Command Mode

- /exec/configure/pmap/class

policy-map

[no] policy-map [type qos] [match-first] <pmap-name-qos>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	(Optional) Specify the type of this policy-map
qos	(Optional) Qos policy
match-first	(Optional) Take the action for the first class that matches
<i>pmap-name-qos</i>	Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy-map type control-plane

[no] policy-map type control-plane <pmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
control-plane	Control-Plane
<i>pmap-name</i>	Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy-map type network-qos

[no] policy-map type network-qos <pmap-name-nq>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-name-nq</i>	Policy-map name

Command Mode

- /exec/configure

policy-map type psp

```
[no] policy-map type psp { <pmap-name-plc> | { handle <ppf_id> } } [ table <table_type> ] [ client <clienttype> <clientID> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
psp	PSP policy
<i>pmap-name-plc</i>	Policy-map name (alphanumeric)
handle	Handle
<i>ppf_id</i>	PPF ID
table	(Optional) table
<i>table_type</i>	(Optional) Table Type
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

policy-map type queuing

[no] policy-map type queuing [match-first] <pmap-name-que>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
queuing	Queuing policy
match-first	(Optional) Take the action for the first class that matches
<i>pmap-name-que</i>	Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy

policy { { dynamic identity <device-id> } | { static sgt <sgt> [trusted] } } | no policy static | no policy dynamic

Syntax Description

policy	Enable and define policy to be applied
dynamic	apply to authorization server for policy
identity	specify identity of peer for authorization request
<i>device-id</i>	peer's device-id
static	configure static policy
sgt	SGT tag for pkts from this device
<i>sgt</i>	sgt value
trusted	(Optional) specify trust state of the link

Command Mode

- /exec/configure/cts-manual

policy

[no] policy <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy	NBM Flow policy
<i>name</i>	Policy name

Command Mode

- /exec/configure/nbm-flow

pop

pop [<name>]

Syntax Description

pop	pop mode from stack or restore from name
<i>name</i>	(Optional) name

Command Mode

- /global

port-channel bfd destination

port-channel bfd destination <dest-ip> | no port-channel bfd destination [<dest-ip>]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
bfd	BFD parameters
destination	Configure IP address of BFD peer
<i>dest-ip</i>	BFD peer IPv4 address

Command Mode

- /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

port-channel bfd start

port-channel bfd start <start-timer-value> | no port-channel bfd start [<start-timer-value>]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
bfd	BFD parameters
start	Start timer timeout value
<i>start-timer-value</i>	BFD start timer timeout value in seconds (default off)

Command Mode

- /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

port-channel bfd track-member-link

port-channel bfd track-member-link | no port-channel bfd track-member-link

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
bfd	Enable BFD
track-member-link	Enable per-member-link BFD on the port-channel interface

Command Mode

- /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

port-channel hash-distribution

port-channel hash-distribution <type> | no port-channel hash-distribution [<type>]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
hash-distribution	Configure port-channel hash-distribution
<i>type</i>	adaptive/fixed (default adaptive)

Command Mode

- /exec/configure/

port-channel limit

port-channel limit | no port-channel limit

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure the maximum number of supported vPCs
limit	limit to 244 vPCs

Command Mode

- /exec/configure/vpc-domain

port-channel load-balance

```
port-channel load-balance <bndl_hash> <bndl_sel> [ rotate <po-lb-rotate-range> ] [ concatenation ] [ module
<module> | fex all ] [ symmetric ] | no port-channel load-balance [ <bndl_hash> <bndl_sel> [ rotate
<po-lb-rotate-range> ] [ concatenation ] [ module <module> | fex all ] [ symmetric ] ]
```

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
<i>bndl_hash</i>	bundle hash
<i>bndl_sel</i>	bundle select
rotate	(Optional) offset the hash-input
<i>po-lb-rotate-range</i>	(Optional) offset the hash-input
concatenation	(Optional) enable/disable concatenation
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
fex	(Optional) FEX devices
all	(Optional) Permit all FEX to configure port-channel LB
symmetric	(Optional) symmetric load balancing

Command Mode

- /exec/configure

port-channel load-balance1 ethernet

port-channel load-balance1 ethernet <algorithm> [symmetric] | no port-channel load-balance1 ethernet [<algorithm> [symmetric]]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance1	Configure port-channel load balance
ethernet	Ethernet port-channel
<i>algorithm</i>	Configure port-channel load balance
symmetric	(Optional) symmetric load balancing

Command Mode

- /exec/configure

port-channel load-balance2 resilient

port-channel load-balance2 resilient | no port-channel load-balance2 resilient

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance2	Configure port-channel load balance
resilient	Configure port-channel load balance resilient mode

Command Mode

- /exec/configure

port-channel load-balance ethernet

port-channel load-balance ethernet <algorithm> [module <module>] | no port-channel load-balance ethernet [<algorithm> [module <module>]]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
ethernet	Ethernet port-channel
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>algorithm</i>	Configure port-channel load balance

Command Mode

- /exec/configure

port-channel load-balance hash-modulo-f2

[no] port-channel load-balance hash-modulo-f2

Syntax Description

no	(Optional) Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash-modulo-f2	Enable/disable modulo hash for N7K-F248XP cards

Command Mode

- /exec/configure

port-channel load-balance hash enable

[no] port-channel load-balance hash enable

Syntax Description

no	(Optional) Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash	hash enhancement
enable	enable

Command Mode

- /exec/configure

port-channel load-defer

port-channel load-defer <load-defer-timeout> | no port-channel load-defer [<load-defer-timeout>]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-defer	Load defer time interval
<i>load-defer-timeout</i>	Load defer time interval in seconds (default 120 seconds)

Command Mode

- /exec/configure/

port-channel min-links

port-channel min-links <min-links-number> | no port-channel min-links [<min-links-number>]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
min-links	Configure the port-channel min-links
<i>min-links-number</i>	Enter the min-link number

Command Mode

- /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel
/exec/configure/if-eth-port-channel-p2p

port-channel port hash-distribution

port-channel port hash-distribution <type> | no port-channel port hash-distribution [<type>]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
port	Configure port-channel port hash-distribution
hash-distribution	Configure port-channel port hash-distribution
<i>type</i>	adaptive/fixed (default adaptive)

Command Mode

- /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel
/exec/configure/if-eth-port-channel-p2p

port-channel port load-defer

port-channel port load-defer | no port-channel port load-defer

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
port	Configure port-channel load-defer for member ports
load-defer	Configure port-channel load-defer

Command Mode

- /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel
/exec/configure/if-eth-port-channel-p2p

port-profile

[no] port-profile [type <typeval>] { <profilename> | <s0> }

Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Configure a port-profile
<i>profilename</i>	Enter the name of the profile
<i>s0</i>	Enter the name of the profile
type	(Optional) configure type of the profile
<i>typeval</i>	(Optional)

Command Mode

- /exec/configure

port-profile dump

[no] port-profile dump

Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Dump port-profile
dump	Dump all additional information from database

Command Mode

- /exec

port-profile no-redirectation

[no] port-profile no-redirectation

Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Show port-profile information
no-redirectation	Disable port-profile redirectation

Command Mode

- /exec

port-security stop learning

[no] port-security stop learning

Syntax Description

no	(Optional) Negate a command or set its defaults
port-security	Port security related command
stop	stop
learning	learning

Command Mode

- /exec

port

{ port <tportnum> } | { no port [<tportnum-ignore>] }

Syntax Description

no	Negate a command or set its defaults
port	Port number
<i>tportnum</i>	Port number, default: 15002
<i>tportnum-ignore</i>	(Optional) Port number, default: 15002

Command Mode

- /exe/configure/onep/tls

port control

[no] port control <port-control-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
port	ITD port
control	control
<i>port-control-name</i>	Port control name

Command Mode

- /exec/configure/itd-inout

port control

[no] port control <port-control-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
port	ITD port
control	control
<i>port-control-name</i>	Port control name

Command Mode

- /exec/configure/itd-inout

port destination

```
{ port { destination | source } <port> } | { no port { destination | source } }
```

Syntax Description

no	Negate a command or set its defaults
port	specify flow port address
source	specify flow source port address
destination	specify flow destination port address
<i>port</i>	port number

Command Mode

- /exec/configure/configngoamprofileflow

power efficient-ethernet auto

[no] power efficient-ethernet auto

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
auto	Auto negotiate EEE

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

power efficient-ethernet sleep threshold aggressive

[no] power efficient-ethernet sleep threshold aggressive

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
sleep	EEE LPI sleep configuration
threshold	EEE LPI sleep threshold
aggressive	Enable/ Disable EEE LPI aggressive sleep mode

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

power redundancy-mode combined

[no] power redundancy-mode combined

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined

Command Mode

- /exec/configure

power redundancy-mode combined force

[no] power redundancy-mode combined force

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined
force	Force combined mode without prompting

Command Mode

- /exec/configure

power redundancy-mode insrc-redundant

[no] power redundancy-mode insrc-redundant

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
insrc-redundant	Configure power supply redundancy mode as grid/AC input source redundant

Command Mode

- /exec/configure

power redundancy-mode ps-redundant

[no] power redundancy-mode ps-redundant

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
ps-redundant	Configure power supply redundancy mode as PS redundant

Command Mode

- /exec/configure

power reserve

[no] power reserve <percentage>

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
reserve	Override default power reservation
<i>percentage</i>	please enter a percentage

Command Mode

- /exec/configure

poweroff

```
[no] poweroff { module <module> | <s0> <santa-cruz-range> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
poweroff	Power off a module in the switch
module	enter a module number
<i>module</i>	please enter the module number
<i>s0</i>	Power off a specific xbar
<i>santa-cruz-range</i>	please enter the xbar number

Command Mode

- /exec/configure

pps

pps <pps> <burst> | no pps [<pps>] [<burst>]

Syntax Description

no	Negate a command or set its defaults
pps	OSPF packets per second
<i>pps</i>	Packets per second value
<i>burst</i>	Burst value

Command Mode

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

pps

pps <pps> <burst> | no pps [<pps>] [<burst>]

Syntax Description

no	Negate a command or set its defaults
pps	OSPFv3 packets per second
<i>pps</i>	Packets per second value
<i>burst</i>	Burst value

Command Mode

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

precision milliseconds

{ { no | default } precision | precision { milliseconds | microseconds } }

Syntax Description

no	
<i>precision</i>	milliseconds
default	Set a command to its defaults
precision	Set precision of measurement
microseconds	Precision microseconds
milliseconds	Precision milliseconds

Command Mode

- /exec/configure/ip-sla/jitter

preempt

[no] preempt | preempt

Syntax Description

no	Negate a command or set its defaults
preempt	Enable preemption of lower priority Master

Command Mode

- /exec/configure/if-eth-any/vrrpv3

preempt

[no] preempt [delay { minimum <min-delay> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
preempt	Overthrow lower priority designated routers
delay	(Optional) Wait before preempting
minimum	(Optional) Delay atleast this long
<i>min-delay</i>	(Optional) Number of seconds for minimum delay

Command Mode

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

preempt

[no] preempt

Syntax Description

no	(Optional) Negate a command or set its defaults
preempt	Enable preemption of lower priority master

Command Mode

- /exec/configure/if-eth-any/vrrp

preempt delay minimum

[no] preempt delay | preempt delay minimum <secs>

Syntax Description

no	Negate a command or set its defaults
preempt	Enable preemption of lower priority Master
delay	Wait before preempting
minimum	Delay at least this long
<i>secs</i>	Seconds to delay

Command Mode

- /exec/configure/if-eth-any/vrrpv3

preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt
 delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt
 delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt

preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt

preempt delay minimum <min-delay> reload <rel-delay> sync <sync-delay> | preempt delay reload <rel-delay>
 minimum <min-delay> sync <sync-delay> | preempt delay sync <sync-delay> minimum <min-delay> reload
 <rel-delay> | preempt delay reload <rel-delay> sync <sync-delay> minimum <min-delay> | preempt delay
 sync <sync-delay> reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> sync
 <sync-delay> reload <rel-delay> | preempt delay reload <rel-delay> sync <sync-delay> | preempt delay sync
 <sync-delay> reload <rel-delay> | preempt delay minimum <min-delay> sync <sync-delay> | preempt delay
 sync <sync-delay> minimum <min-delay> | preempt delay minimum <min-delay> reload <rel-delay> | preempt
 delay reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> | preempt delay
 reload <rel-delay> | preempt delay sync <sync-delay> | preempt | no preempt [{ minimum
 [<min-delay>] [[reload [<rel-delay>]] [sync [<sync-delay>]] [sync [<sync-delay>]] [reload [<rel-delay>]]] | reload [<rel-delay>] [[minimum [<min-delay>]] [sync [<sync-delay>]] [sync [<sync-delay>]] [minimum [<min-delay>]]] | sync [<sync-delay>] [[reload [<rel-delay>]] [minimum [<min-delay>]]] [[minimum [<min-delay>]] [reload [<rel-delay>]]] }]

Syntax Description

no	Negate a command or set its defaults
preempt	Overthrow lower priority Active routers
delay	Wait before preempting
minimum	Delay at least this long
<i>min-delay</i>	Number of seconds for minimum delay
reload	Delay after reload
<i>rel-delay</i>	Number of seconds for reload delay
sync	Wait for IP redundancy clients
<i>sync-delay</i>	Number of seconds for sync delay
<i>minimum</i>	reload

preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt
delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt
delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt

Command Mode

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

prefix out

[no | default] { prefix-list <prfxlist-name> } { out | in }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
prefix-list	Apply prefix-list
<i>prfxlist-name</i>	Name of prefix-list
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

Command Mode

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

priority-flow-control auto-restore multiplier

[no] priority-flow-control auto-restore multiplier { <val> }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfm related commands
auto-restore	auto restore
multiplier	Auto restore multiplier
val	Auto multiplier value

Command Mode

- /exec/configure

priority-flow-control fixed-restore multiplier

[no] priority-flow-control fixed-restore multiplier { <val> }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfc related commands
fixed-restore	fixed restore
multiplier	Fixed restore multiplier
<i>val</i>	Fixed multiplier value

Command Mode

- /exec/configure

priority-flow-control mode

[no] priority-flow-control mode { auto | on | off } [force]

Syntax Description

no	(Optional) Negate a command or set its defaults
priority-flow-control	Enable/Disable PFC
mode	PFC Mode
auto	Set Auto Mode
on	Force PFC to On
off	Force PFC to Off
force	(Optional) Force apply PFC config

Command Mode

- /exec/configure/if-switching /exec/configure/if-routing /exec/configure/if-port-channel /exec/configure/if-port-channel-sub

priority-flow-control override-interface mode off

[no] priority-flow-control override-interface mode off

Syntax Description

no	(Optional) Negate a command or set its defaults
priority-flow-control	Global priority-flow-control settings
override-interface	Overrides interface priority-flow-control mode
mode	Priority-flow-control mode
off	Off

Command Mode

- /exec/configure

priority-flow-control recover interface

priority-flow-control recover interface <if_list> [qos-group <qgrp-num>] [module <module_idx>] [instance <inst>]

Syntax Description

priority-flow-control	Change PFC settings
recover	Recover PFC queue from stuck state
interface	Interface
<i>if_list</i>	List of interfaces
qos-group	(Optional) No-drop class to be recovered
<i>qgrp-num</i>	(Optional) qos-group number of the no-drop class
module	(Optional) Slot/module
<i>module_idx</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>inst</i>	(Optional) ASIC Instance Number in Decimal

Command Mode

- /exec

priority-flow-control watch-dog-interval on

[no] priority-flow-control watch-dog-interval { on | off }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	Enable/Disable PFC
watch-dog-interval	Watch dog interval
on	Enable PFC watch-dog interval globally
off	Disable PFC watch-dog interval globally

Command Mode

- /exec/configure

priority-flow-control watch-dog-interval on

[no] priority-flow-control watch-dog-interval { on | off }

Syntax Description

no	(Optional) Negate a command or set its defaults
priority-flow-control	Enable/Disable PFC
watch-dog-interval	Watch dog interval
on	PFC watch-dog interval to On
off	PFC watch-dog interval to Off

Command Mode

- /exec/configure/if-switching /exec/configure/if-routing /exec/configure/if-port-channel /exec/configure/if-port-channel-sub

priority-flow-control watch-dog interval

[no] priority-flow-control watch-dog interval <interval-val>

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfc related commands
watch-dog	watch dog interval
interval	Poll interval
<i>interval-val</i>	Watch dog interval value in ms

Command Mode

- /exec/configure

priority-flow-control watch-dog shutdown-multiplier

[no] priority-flow-control watch-dog shutdown-multiplier { <val> }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfm related commands
watch-dog	watch dog interval
shutdown-multiplier	Shutdown multiplier
<i>val</i>	Shutdown multiplier

Command Mode

- /exec/configure

priority

priority <priority> [forwarding-threshold lower <lower-value> upper <upper-value>] | no priority [forwarding-threshold]

Syntax Description

no	Negate a command or set its defaults
priority	Priority level
<i>priority</i>	Priority value
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
<i>lower-value</i>	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
<i>upper-value</i>	(Optional) Upper threshold value

Command Mode

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

priority2

[no] priority2 [level2 <value>]

Syntax Description

no	(Optional) Negate a command or set its defaults
priority2	Configure traffic class priority
level2	(Optional) Specify level of priority
<i>value</i>	(Optional) Strict-priority level (1=hi 2=med 3=lo)

Command Mode

- /exec/configure/policy-map/type/queuing/class

priority

{ priority <pri-value> } | { no priority }

Syntax Description

no	Negate a command or set its defaults
priority	Priority level
<i>pri-value</i>	Priority Value

Command Mode

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

priority

[no] priority [level <value>]

Syntax Description

no	(Optional) Negate a command or set its defaults
priority	Configure traffic class priority
level	(Optional) Specify level of priority
<i>value</i>	(Optional) Value of level, lower the number higher the priority

Command Mode

- /exec/configure/policy-map/type/queuing/class

priority

[no] priority | priority <setup_prio> [<hold_prio>]

Syntax Description

no	Negate a command or set its defaults
priority	Specify LSP priority
<i>setup_prio</i>	setup priority
<i>hold_prio</i>	(Optional) hold priority

Command Mode

- /exec/configure/te/lsp-attr

priority

[no] priority | priority <setup_pri> [<hold_pri>]

Syntax Description

no	Negate a command or set its defaults
priority	tunnel priority
<i>setup_pri</i>	setup priority
<i>hold_pri</i>	(Optional) hold priority

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

priority

priority <value> | no priority

Syntax Description

no	Negate a command or set its defaults
priority	Configure Bundle priority
<i>value</i>	Priority value

Command Mode

- /exec/configure/anycast

priority

{ priority <priority_value> [forwarding-threshold lower <lower-value> upper <upper-value>] | no priority [forwarding-threshold] }

Syntax Description

no	Negate a command or set its defaults
priority	Configure the vr priority
<i>priority_value</i>	Configure the vr priority
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
<i>lower-value</i>	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
<i>upper-value</i>	(Optional) Upper threshold value

Command Mode

- /exec/configure/if-eth-any/vrrp

priority

[no] priority | priority <val>

Syntax Description

no	Negate a command or set its defaults
priority	Priority of this VRRP group
<i>val</i>	Priority level

Command Mode

- /exec/configure/if-eth-any/vrrpv3

private-vlan

[no] private-vlan <pvlan-type>

Syntax Description

no	(Optional) Negate a command or set its defaults
private-vlan	Configure a private VLAN
<i>pvlan-type</i>	PVLAN Type

Command Mode

- /exec/configure/vlan

private-vlan association

```
{ private-vlan association [ { add | remove } ] <secondary_vlans> } | { no private-vlan association [ <secondary_vlans> ] }
```

Syntax Description

private-vlan	Configure a private VLAN
association	Add association between private VLANs
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>secondary_vlans</i>	VLAN IDs of the private VLANs to be configured

Command Mode

- /exec/configure/vlan

private-vlan mapping

```
{ private-vlan mapping [ { add | remove } ] <secondary_vlans> } | { no private-vlan mapping [ <secondary_vlans> ] }
```

Syntax Description

private-vlan	Configure a private VLAN
mapping	Set the private VLAN interface mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>secondary_vlans</i>	Secondary VLAN IDs of the private VLAN interface mapping

Command Mode

- /exec/configure/if-vlan

private-vlan release resource

```
private-vlan release resource { [ vlan <vlan-id> ] | global }
```

Syntax Description

private-vlan	Show information about private VLAN
release	release
resource	resource
vlan	(Optional) VLAN status
global	global rid
<i>vlan-id</i>	(Optional) VLAN IDs of the private VLANs to be configured

Command Mode

- /exec

private-vlan synchronize

private-vlan synchronize

Syntax Description

private-vlan	Set private-vlan synchronization
synchronize	Synchronize vlans

Command Mode

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

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-dg-node

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> |
 retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe get

[no] probe <probe-id-http> get [<url-name> | cache | frequency <freq-num> | timeout <timeout> |
 retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe get

[no] probe <probe-id-http> get [<url-name> | cache | frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe get

[no] probe <probe-id-http> get [<url-name> | cache | frequency <freq-num> | timeout <timeout> |
 retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe get

[no] probe <probe-id-http> get <url-name> [cache | frequency <freq-num> | timeout <timeout> |
 retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe get

[no] probe <probe-id-http> get <url-name> [cache | frequency <freq-num> | timeout <timeout> |
 retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe get

[no] probe <probe-id-http> get <url-name> [cache | frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

promiscuous-mode off

promiscuous-mode { off | on } | no promiscuous-mode [{ off | on }]

Syntax Description

no	Negate a command or set its defaults
promiscuous-mode	Configure promiscuous mode for the port
off	Disable promiscuous mode
on	Enable promiscuous mode

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-eth-base

propagate-sgt

[no] propagate-sgt

Syntax Description

propagate-sgt	Enable SGT propagation from this port (the default use the no form to disable)
---------------	--

Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

protection

[no] protection | protection [fast-reroute [bw-protect]]

Syntax Description

no	Negate a command or set its defaults
protection	Enable failure protection
fast-reroute	(Optional) Enable fast-reroute failure protection
bw-protect	(Optional) Enable BW protection

Command Mode

- /exec/configure/te/lsp-attr

protocol

{ protocol <num> } | { no protocol }

Syntax Description

no	Negate a command or set its defaults
protocol	specify flow protocol number
<i>num</i>	flow protocol number

Command Mode

- /exec/configure/configngoamprofileflow

protocol shutdown

[no] protocol shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
protocol	OSPF protocol
shutdown	Shutdown the OSPF protocol instance

Command Mode

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

protocol shutdown

[no] protocol shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
protocol	OSPF protocol
shutdown	shutdown the OSPF protocol instance

Command Mode

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

ptp

[no] ptp

Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp announce interval

```
[no] ptp announce interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds>
}
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
announce	announce
interval	interval
<i>log-seconds</i>	log seconds
smpte-2059-2	SMPTE-2059-2
<i>smpte-log-seconds</i>	SMPTE-2059-2 log seconds
aes67	AES67-2015
<i>aes-log-seconds</i>	AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp announce timeout

[no] ptp announce timeout { <val> | smpte-2059-2 <smpte-val> | aes67 <aes-val> }

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
announce	announce
timeout	timeout
smpte-2059-2	SMPTE-2059-2
aes67	AES67-2015
<i>val</i>	val
<i>smpte-val</i>	SMPTE-2059-2 val
<i>aes-val</i>	AES67-2015 val

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp clock one-step

[no] ptp { clock-mode | clock-operation } one-step

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock-mode	Set the PTP Clock mode
clock-operation	Set the PTP Clock Operation
one-step	One step

Command Mode

- /exec/configure

ptp delay-request minimum interval

[no] ptp delay-request minimum interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds> }

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
delay-request	delay-request
minimum	minimum
interval	interval
smpte-2059-2	SMPTE-2059-2
aes67	AES67-2015
<i>log-seconds</i>	log seconds
<i>smpte-log-seconds</i>	SMPTE-2059-2 log seconds
<i>aes-log-seconds</i>	AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp domain

[no] ptp domain <domain-val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Enter domain value

Command Mode

- /exec/configure

ptp multicast master-only

[no] ptp multicast master-only

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multicast	multicast
master-only	master only

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp offload

[no] ptp offload

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
offload	Allows increasing number of PTP sessions per system by offloading some timers to linecard

Command Mode

- /exec/configure

ptp priority1

[no] ptp priority1 <val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority1	priority1
<i>val</i>	priority1

Command Mode

- /exec/configure

ptp priority2

[no] ptp priority2 <val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority2	priority1
<i>val</i>	priority2

Command Mode

- /exec/configure

ptp source

```
[no] ptp source <src-ip> [ vrf { <vrf-name> | <vrf-cfg-name> } ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
source	source IP address
<i>src-ip</i>	IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-cfg-name</i>	(Optional) Configurable VRF name

Command Mode

- /exec/configure

ptp sync interval

[no] ptp sync interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds> }

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
sync	sync
interval	interval
smpte-2059-2	SMPTE-2059-2
aes67	AES67-2015
<i>log-seconds</i>	log seconds
<i>smpte-log-seconds</i>	SMPTE-2059-2 log seconds
<i>aes-log-seconds</i>	AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp time-sync

[no] ptp time-sync <value>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
time-sync	ptp time sync register
<i>value</i>	default reg value 0x40000000

Command Mode

- /exec/configure

ptp transport ipv4 ucast master

[no] ptp transport ipv4 ucast master

Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem
transport	unicast support
ipv4	ipv4
ucast	ipv4 unicast
master	master mode

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp transport ipv4 ucast slave

[no] ptp transport ipv4 ucast slave

Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem
transport	unicast support
ipv4	ipv4
ucast	ipv4 unicast
slave	slave mode

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp ucast-source

```
[no] ptp ucast-source <src-ip> [ vrf { <vrf-name> | <vrf-cfg-name> } ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
ucast-source	source IP address for unicast messages
<i>src-ip</i>	IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-cfg-name</i>	(Optional) Configurable VRF name

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp vlan

[no] ptp vlan <vlan>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
vlan	vlan
<i>vlan</i>	vlan

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

publish-event sub-system type

```
publish-event sub-system <sub-system-id> type <event-type> { [ arg1 <data1> ] [ arg2 <data2> ] [ arg3
<data3> ] [ arg4 <data4> ] }
```

Syntax Description

publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
<i>sub-system-id</i>	Sub-system ID value
type	Event type value
<i>event-type</i>	Event type value
arg1	(Optional) User specified data to be passed when the event is published
<i>data1</i>	(Optional) User specified data value
arg2	(Optional) User specified data to be passed when the event is published
<i>data2</i>	(Optional) User specified data value
arg3	(Optional) User specified data to be passed when the event is published
<i>data3</i>	(Optional) User specified data value
arg4	(Optional) User specified data to be passed when the event is published
<i>data4</i>	(Optional) User specified data value

Command Mode

- /exec

pulse

pulse { enable | disable | destroy | reset } { all | sup sap <sapno> }

Syntax Description

pulse	Pulse Utility Configurations
enable	Enable MTS Message Profiling
disable	Disable MTS Message Profiling
reset	Reset Pulse Database
destroy	Destroy Pulse Database
all	All Subscribers
sup	Supervisor Application
sap	Static MTS SAP
<i>sapno</i>	MTS SAP Number of an Application

Command Mode

- /exec

pulse

```
pulse { enable remote-logging <ip-addr> id <id> [ tag <tag> ] | disable remote-logging } { all | sup sap <sapno>
}
```

Syntax Description

pulse	Pulse Utility Configurations
enable	Enable MTS Message Profiling
disable	Disable MTS Message Profiling
remote-logging	Enable Remote Logging of Logs
id	Specify Log Directory
tag	(Optional) Attach Unique Identifier with Log Files
all	All Subscribers
sup	Supervisor Application
sap	Staic MTS SAP
<i>sapno</i>	MTS SAP Number of an Application
<i>id</i>	Create Log Directory to Save All LogFiles
<i>tag</i>	(Optional) Append Unique Identifier to the Remote Logfile
<i>ip-addr</i>	IP Address of Remote Logging Server Reachable via OOB Management Interface

Command Mode

- /exec

pulse remove local

pulse remove { local-files | remote-files }

Syntax Description

pulse	Pulse Utility Configurations
remove	Remove Logged Files
local-files	Remove Logged Files within Switch
remote-files	Remove Logged Files on remote-server

Command Mode

- /exec

purge ip route

```
purge ip route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

purge	Purge
ip	IPv4
route	Purge routing information
vrf	(Optional) VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
all	Purge all routes

Command Mode

- /exec

purge ipv6 route

```
purge ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

purge	Purge
ipv6	IPv6
route	Purge routing information
vrf	(Optional) VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
all	Purge all routes

Command Mode

- /exec

purge module running-config

purge module <module> running-config

Syntax Description

purge	Deletes unused data
module	Purge configuration for non-existent modules
<i>module</i>	Enter module number
running-config	purge running configuration for non-existent modules

Command Mode

- /exec

push

push [<name>]

Syntax Description

push	push current mode to stack or save it under name
<i>name</i>	(Optional) name

Command Mode

- /global

pwd

pwd

Syntax Description

pwd	View current directory
-----	------------------------

Command Mode

- /exec

python

python [<uri> [<pyargs>] +]

Syntax Description

python	run a python command/script, or enter python mode (if no arg)
<i>uri</i>	(Optional) path to a python file
<i>pyargs</i>	(Optional) python command line arguments (maximum 32)

Command Mode

- /exec

python execute virtual-service command

python execute virtual-service <service> command [<pyargs>] +

Syntax Description

python	run a python command/script, or enter python mode (if no arg)
execute	execute a virtual service command
virtual-service	virtual service to execute the command
command	command to execute
<i>service</i>	name of existing virtual service
<i>pyargs</i>	(Optional) command and args (maximum 32)

Command Mode

- /exec

python instance

[no] python instance <inst> [<uri> [<pyargs>] +] | python instance <inst> <uri> [<pyargs>] +

Syntax Description

no	Negate a command or set its defaults
python	run a python command/script, or enter python mode (if no arg)
instance	label with an instance number
<i>inst</i>	instance number
<i>uri</i>	(Optional) path to a python file
<i>pyargs</i>	(Optional) python command line arguments (maximum 32)

Command Mode

- /exec/configure