



## P Commands

---

- [packet-size](#), on page 8
- [param-list param-list](#), on page 9
- [parity](#), on page 10
- [parity](#), on page 11
- [passive-interface default](#), on page 12
- [passive-interface default](#), on page 13
- [passive-interface default](#), on page 14
- [passive-interface default](#), on page 15
- [password](#), on page 16
- [password](#), on page 17
- [password](#), on page 18
- [password prompt username](#), on page 19
- [password secure-mode](#), on page 20
- [password strength-check](#), on page 21
- [path-option dynamic explicit identifier](#), on page 22
- [path-selection metric igp](#), on page 23
- [path-selection metric igp](#), on page 24
- [path-selection overload allow](#), on page 25
- [path](#), on page 26
- [path next-hop out-label-stack](#), on page 27
- [pathtrace nve](#), on page 28
- [pause](#), on page 30
- [pause](#), on page 31
- [pause buffer-size2 pause-threshold2 resume-threshold2](#), on page 32
- [pause priority](#), on page 33
- [payload](#), on page 34
- [payload test pattern-type pad](#), on page 35
- [pcc](#), on page 36
- [pce-address ipv4](#), on page 37
- [pcep](#), on page 38
- [pcep](#), on page 39
- [peer-gateway](#), on page 40
- [peer-ip](#), on page 41

- peer-keepalive destination, on page 42
- peer-switch, on page 44
- peer-type fabric, on page 45
- peer-vtep, on page 46
- peer local service, on page 47
- peer local service, on page 48
- peer vpc, on page 49
- per-ingress-port-mtu-mode, on page 50
- perf, on page 51
- periodic-inventory notification, on page 52
- periodic-inventory notification interval, on page 53
- periodic to, on page 54
- periodic to, on page 55
- permit interface, on page 56
- permit vlan, on page 57
- permit vrf, on page 58
- permit vsan, on page 59
- personality, on page 60
- personality backup, on page 61
- personality restore, on page 62
- phone-contact, on page 63
- pim, on page 64
- pim, on page 65
- ping, on page 66
- ping6, on page 68
- ping mpls, on page 69
- ping nve, on page 73
- ping sr-mpls, on page 75
- platform access-list capture, on page 78
- platform access-list fp\_dnl, on page 79
- platform access-list update, on page 80
- platform acl tap-agg, on page 81
- platform forwarding interface statistics mode mpls, on page 82
- platform forwarding layer-2 fl exclude supervisor, on page 83
- platform ip verify, on page 84
- platform ipv6 verify, on page 86
- platform qos, on page 87
- platform qos, on page 88
- platform qos, on page 89
- platform qos, on page 90
- platform qos, on page 91
- platform qos, on page 92
- platform qos, on page 93
- platform qos, on page 94
- platform qos, on page 96
- platform qos, on page 97

- platform qos, on page 98
- platform qos, on page 99
- platform qos, on page 100
- platform qos, on page 101
- platform qos, on page 102
- platform qos buffer peak monitor counter0 class, on page 103
- platform qos buffer peak monitor counter1 class, on page 104
- platform qos classify ns-only, on page 105
- platform qos eoq, on page 106
- platform qos include ipg, on page 107
- platform qos ing, on page 108
- platform qos ing, on page 109
- platform qos mac ipg, on page 110
- platform qos nodrop-PG-thresholds-FX PG-size, on page 111
- platform qos nodrop-PG-thresholds PG-size, on page 112
- platform qos nodrop-PG-thresholds PG-size Red-threshold Yellow-threshold Green-threshold, on page 113
- platform qos nodrop-queue-thresholds-FX Queue-green, on page 114
- platform qos nodrop-queue-thresholds-roc Queue-green, on page 115
- platform qos nodrop-queue-thresholds Queue-green, on page 116
- platform qos ns, on page 117
- platform qos q-noise percent, on page 118
- platform rate-limiter, on page 119
- platform rate-limiter, on page 121
- platform rate-limiter access-list-log, on page 123
- platform rate-limiter span-egress, on page 124
- plb, on page 125
- plb analytics, on page 126
- plb device-group, on page 127
- pnp accelerate, on page 128
- pnp profile transport http, on page 129
- pnp startup-vlan, on page 130
- police, on page 131
- police, on page 135
- police, on page 137
- police, on page 139
- police police pps, on page 143
- police police pps, on page 145
- policer, on page 147
- policer, on page 148
- policy-map, on page 149
- policy-map type control-plane, on page 150
- policy-map type network-qos, on page 151
- policy-map type queuing, on page 152
- policy, on page 153
- policy, on page 154

- [policy](#), on page 155
- [policy](#), on page 156
- [pop](#), on page 157
- [port-channel bfd destination](#), on page 158
- [port-channel bfd start](#), on page 159
- [port-channel bfd track-member-link](#), on page 160
- [port-channel fast-convergence](#), on page 161
- [port-channel hash-distribution](#), on page 162
- [port-channel limit](#), on page 163
- [port-channel load-balance](#), on page 164
- [port-channel load-balance1 ethernet](#), on page 165
- [port-channel load-balance2 resilient](#), on page 166
- [port-channel load-balance](#), on page 167
- [port-channel load-balance ethernet](#), on page 168
- [port-channel load-defer](#), on page 169
- [port-channel port hash-distribution](#), on page 170
- [port-channel port load-defer](#), on page 171
- [port-channel scale-fanout](#), on page 172
- [port-group](#), on page 173
- [port-group](#), on page 174
- [port-license](#), on page 175
- [port-license](#), on page 176
- [port-profile](#), on page 177
- [port-type](#), on page 178
- [port](#), on page 179
- [port](#), on page 180
- [port](#), on page 181
- [port control](#), on page 182
- [port destination](#), on page 183
- [port type ethernet](#), on page 184
- [postcard-telemetry exporter](#), on page 185
- [postcard-telemetry flow-profile](#), on page 186
- [postcard-telemetry monitor](#), on page 187
- [postcard-telemetry queue-profile](#), on page 188
- [postcard-telemetry system monitor](#), on page 189
- [postcard-telemetry watchlist ip](#), on page 190
- [power efficient-ethernet auto](#), on page 191
- [power efficient-ethernet sleep threshold aggressive](#), on page 192
- [power inline](#), on page 193
- [power inline default\\_consumption](#), on page 194
- [power inline police action](#), on page 195
- [power inline port priority](#), on page 196
- [power redundancy-mode combined](#), on page 197
- [power redundancy-mode combined force](#), on page 198
- [power redundancy-mode insrc-redundant](#), on page 199
- [power redundancy-mode ps-redundant](#), on page 200

- power reserve, on page 201
- poweroff, on page 202
- pps, on page 203
- pps, on page 204
- precision milliseconds, on page 205
- preempt, on page 206
- preempt, on page 207
- preempt delay minimum, on page 208
- 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 209
- preference, on page 211
- preference, on page 212
- preference max, on page 213
- preference min, on page 214
- prefix out, on page 215
- priority-flow-control auto-restore multiplier, on page 216
- priority-flow-control fixed-restore multiplier, on page 217
- priority-flow-control mode, on page 218
- priority-flow-control override-interface mode off, on page 219
- priority-flow-control recover interface, on page 220
- priority-flow-control tah-recover interface, on page 221
- priority-flow-control watch-dog-interval on, on page 222
- priority-flow-control watch-dog-interval on, on page 223
- priority-flow-control watch-dog forced on, on page 224
- priority-flow-control watch-dog interval, on page 225
- priority-flow-control watch-dog shutdown-multiplier, on page 226
- priority, on page 227
- priority2, on page 228
- priority, on page 229
- priority, on page 230
- priority, on page 231
- priority, on page 232
- priority, on page 233
- priority, on page 234
- private-vlan, on page 235
- private-vlan association, on page 236
- private-vlan mapping, on page 237
- private-vlan synchronize, on page 238
- probe-interval, on page 239
- probe-interval, on page 240
- probe, on page 241
- probe, on page 242
- probe, on page 243

- probe, on page 244
- probe, on page 245
- probe, on page 246
- probe, on page 247
- probe get, on page 248
- probe get, on page 249
- probe get, on page 250
- probe get, on page 251
- probe host, on page 252
- probe host, on page 253
- probe host, on page 254
- probe host, on page 255
- probe host, on page 256
- probe host, on page 257
- probe host, on page 258
- probe port, on page 259
- probe port, on page 260
- probe port, on page 261
- probe port, on page 262
- probe port, on page 263
- probe port, on page 264
- probe port, on page 265
- profile, on page 266
- profile, on page 267
- profile, on page 268
- promiscuous-mode off, on page 269
- propagate-sgt, on page 270
- protected, on page 271
- protected, on page 272
- protection, on page 273
- proto, on page 274
- protocol-version, on page 275
- protocol-version, on page 276
- protocol, on page 277
- protocol, on page 278
- protocol shutdown, on page 279
- protocol shutdown, on page 280
- ptp, on page 281
- ptp announce interval, on page 282
- ptp announce timeout, on page 283
- ptp clock-identity, on page 284
- ptp clock-sync auto, on page 285
- ptp clock one-step, on page 286
- ptp convergence-time, on page 287
- ptp correction-range, on page 288
- ptp correction-range logging, on page 289

- [ptp correction hardware](#), on page 290
- [ptp cost](#), on page 291
- [ptp delay-request minimum interval](#), on page 292
- [ptp device-type boundary](#), on page 293
- [ptp domain](#), on page 294
- [ptp domain](#), on page 295
- [ptp domain clock-accuracy-threshold](#), on page 296
- [ptp domain clock-class-threshold](#), on page 297
- [ptp domain priority](#), on page 298
- [ptp grandmaster-capable](#), on page 299
- [ptp mean-path-delay](#), on page 300
- [ptp multi-domain](#), on page 301
- [ptp multi-domain transition-attributes priority1](#), on page 302
- [ptp multi-domain transition-attributes priority2](#), on page 303
- [ptp multicast master-only](#), on page 304
- [ptp neighbor propagation-delay-threshold](#), on page 305
- [ptp offload](#), on page 306
- [ptp pdelay-req-interval](#), on page 307
- [ptp priority1](#), on page 308
- [ptp priority2](#), on page 309
- [ptp source](#), on page 310
- [ptp sync interval](#), on page 311
- [ptp transport ipv4 ucast master](#), on page 312
- [ptp transport ipv4 ucast slave](#), on page 313
- [ptp ucast-source](#), on page 314
- [ptp vlan](#), on page 315
- [purge module running-config](#), on page 316
- [push](#), on page 317
- [pwd](#), on page 318
- [python](#), on page 319
- [python instance](#), on page 320

# packet-size

{ packet-size <packetsize> }

## Syntax Description

packet-size	Packet
<i>packetsize</i>	Size

## Command Mode

- /exec/configure/configngoamconnectcheck



# 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/com1

# parity

[no] parity <parity-value>

## Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
<i>parity-value</i>	terminal parity value

## Command Mode

- /exec/configure/console

# 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

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

# password

{ [ no ] password <passwd> }

## Syntax Description

password	password
<i>passwd</i>	password

## Command Mode

- /exec/configure/dot1x-cred



# 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

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

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 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 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> | environment |

## Syntax Description

/	vxlan
/	vxlan
path	Create a sensor path
<i>dn</i>	Distinguished Name
environment	Monitor chassis information including fan,temperature,power,storage,supervisor,linecard

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

### Command Mode

- /exec

# pause

```
[no] pause { no-drop | receive1 | { delayed-drop <timeout> } | { [ buffer-size <size-in-bytes> pause-threshold
<xoff-bytes> resume-threshold <xon-bytes> ] pfc-cos <pfc-cos-list> [ receive ] } }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (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
receive	(Optional) Enable only PFC receive for the list of pfc-cos values
receive1	Enable only PFC receive
<i>pfc-cos-list</i>	List of class-of-service values

## Command Mode

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

# 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 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

[no] payload

## Syntax Description

no	(Optional) Negate a command or set its defaults
payload	Configure ngoam connectivity check payload

## Command Mode

- /exec/configure/configngoamconnectcheck

## 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

# pcc

[no] pcc

## Syntax Description

no	(Optional) Negate a command or set its defaults
pcc	PCC related configuration

## Command Mode

- /exec/configure/sr/te

## pce-address ipv4

[no] pce-address ipv4 <ip-address> [ precedence <precedence> ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
pce-address	Configure the address of the PCE
ipv4	Configure v4 address of the PCE
precedence	(Optional) Precedence of the PCE
<i>ip-address</i>	PCE address
<i>precedence</i>	(Optional) Path-option preference

### Command Mode

- /exec/configure/sr/te/pcc

# pcep

[no] pcep

## Syntax Description

no	(Optional) Negate a command or set its defaults
pcep	Dynamic path needs to be computed externally via PCEP

## Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/dyn

# pcep

[no] pcep

## Syntax Description

no	(Optional) Negate a command or set its defaults
pcep	Dynamic path needs to be computed externally via PCEP

## Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/dyn

## peer-gateway

peer-gateway [ exclude-vlan <vlan-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> | <dst-ipv6> ] [ [ source [ <src-ip> | <src-ipv6> ] | 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> | <src-ipv6> ] | 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> | <src-ipv6> ] | 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>	(Optional) 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 milleseconds
<i>interval-ms</i>	(Optional) Enter interval in milleseconds
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 (deprecate)
<i>addr</i>	Remote VTEP IP Address

## Command Mode

- /exec/configure/if-nve/vni

# 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 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

## Command Mode

- /exec/configure/plb



# peer vpc

[no] peer <svc-name> vpc <num>

## Syntax Description

no	(Optional) Negate a command or set its defaults
peer	smart channel peer
vpc	vpc
<i>svc-name</i>	peer smart channel name
<i>num</i>	VPC number to assign to smart-channel

## Command Mode

- /exec/configure/smarte

# per-ingress-port-mtu-mode

[no] per-ingress-port-mtu-mode

## Syntax Description

no	(Optional) Negate the command
per-ingress-port-mtu-mode	per-ingress-port mtu mode

## Command Mode

- /exec/configure handle auto 424

# 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 }
<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

# 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

# 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

# pim

[no] pim

## Syntax Description

no	(Optional) Negate a command or set its defaults
pim	Policies for a Remote Receiver

## Command Mode

- /exec/configure/nbm-host-policy



# pim

[no] pim

## Syntax Description

no	(Optional) Negate a command or set its defaults
pim	Policies for a Remote Receiver

## Command Mode

- /exec/configure/nbm-vrf/nbm-host-policy

# 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 mpls

```
ping mpls { nil-fec { { labels <comma-separated-labels> } } output { ointerface <tx-interface> } nexthop
<nexthop-ip-addr> } | { policy { { name <srte-policy-name> } | { endpoint <srte-policy-endpoint> color
<srte-policy-color> } } [ { output { ointerface <tx-interface> } [ nexthop <nexthop-ip-addr> ] ] } } } [ {
repeat <count> } | { { size <size> } | { sweep <min-size> <max-size> <increment> } } | { timeout <seconds>
} | { interval <milliseconds> } | { destination <addr-start> [ <addr-end> [ <addr-incr-mask> | <addr-incr> ] ]
} | { source <addr> } | { exp <exp-value> } | { pad <pattern> } | { ttl <ttl> } | { verbose } | { reply { { mode
{ <reply-mode-ipv4> | router-alert | control-channel | no-reply } } | { dscp { <dscp-bits> | af11 | af12 | af13 |
af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | default | ef } } | {
pad-tlv } } } + | { force-explicit-null } | { dsmap [ hashkey { none | { hash-ipv4 { bitmap <bitmap-size> } }
} ] } | { flags { fec } } ] +
```

### Syntax Description

ping	need
mpls	Test
nil-fec	Target
labels	A
<i>comma-separated-labels</i>	A
repeat	(Optional) Repeat
<i>count</i>	(Optional) Repeat
size	(Optional) Packet
<i>size</i>	(Optional) Datagram
sweep	(Optional) Sweep
<i>min-size</i>	(Optional)
<i>max-size</i>	(Optional)
<i>increment</i>	(Optional) Sweep
timeout	(Optional) Timeout
<i>seconds</i>	(Optional) Timeout
interval	(Optional) Send
<i>milliseconds</i>	(Optional) Send
destination	(Optional) Destination
<i>addr-start</i>	(Optional) Destination
<i>addr-end</i>	(Optional) Destination

<i>addr-incr-mask</i>	(Optional) Destination
<i>addr-incr</i>	(Optional) Destination
source	(Optional) Source
<i>addr</i>	(Optional) Source
exp	(Optional) EXP
<i>exp-value</i>	(Optional) EXP
pad	(Optional) Pad
<i>pattern</i>	(Optional) Pad
ttl	(Optional) Time
<i>ttl</i>	(Optional) TTL
verbose	(Optional) verbose
reply	(Optional) Reply
mode	(Optional) Reply
reply-mode-ipv4	(Optional) Send
router-alert	(Optional) Send
control-channel	(Optional) Send
no-reply	(Optional) Send
dscp	(Optional) DSCP
<i>dscp-bits</i>	(Optional) Differentiated
af11	(Optional) Match
af12	(Optional) Match
af13	(Optional) Match
af21	(Optional) Match
af22	(Optional) Match
af23	(Optional) Match
af31	(Optional) Match
af32	(Optional) Match
af33	(Optional) Match
af41	(Optional) Match

af42	(Optional) Match
af43	(Optional) Match
cs1	(Optional) Match
cs2	(Optional) Match
cs3	(Optional) Match
cs4	(Optional) Match
cs5	(Optional) Match
cs6	(Optional) Match
cs7	(Optional) Match
default	(Optional) Match
ef	(Optional) Match
pad-tlv	(Optional) Reply
force-explicit-null	(Optional) Force
output	Output
ointerface	Echo
<i>tx-interface</i>	Echo
nexthop	Next
<i>nexthop-ip-addr</i>	Next
dsmap	(Optional) Request
hashkey	(Optional) Downstream
none	(Optional) Hash
hash-ipv4	(Optional) IPv4
bitmap	(Optional) Hash
<i>bitmap-size</i>	(Optional) Multipath
flags	(Optional) Flag
fec	(Optional) Request
policy	Derive
name	Specify
color	Specify

endpoint	Specify
<i>srte-policy-name</i>	The
<i>srte-policy-color</i>	The
<i>srte-policy-endpoint</i>	The

**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 <dstipv6> <srcipv6> ] [ port <sport>
<dport> ] [ proto <proto-id> ] [ src-intf <src_if> ] } payload-end ] [ source { <numeric1> | <numeric2> } ]
```

## Syntax Description

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

**Command Mode**

- /exec

## ping sr-mpls

```
ping sr-mpls { <sr-ipv4-prefix> fec-type { { igp isis } | { bgp } | { generic } } } [ { repeat <count> } | { size
<size> } | { sweep <min-size> <max-size> <increment> } } | { timeout <seconds> } | { interval <milliseconds>
} | { destination <addr-start> [ <addr-end> [ <addr-incr-mask> | <addr-incr> ] ] } | { source <addr> } | { exp
<exp-value> } | { pad <pattern> } | { ttl <ttl> } | { verbose } | { reply { { mode { <reply-mode-ipv4> |
router-alert | control-channel | no-reply } } | { dscp { <dscp-bits> | af11 | af12 | af13 | af21 | af22 | af23 | af31
| af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | default | ef } } | { pad-tlv } } } + | {
force-explicit-null } | { dsmap [ hashkey { none | { hash-ipv4 { bitmap <bitmap-size> } } } ] } | { flags { fec
} } ] +
```

### Syntax Description

ping	need
sr-mpls	Test
<i>sr-ipv4-prefix</i>	IP
fec-type	Type
igp	Kind
isis	ISIS
bgp	BGP
generic	Generic
repeat	(Optional) Repeat
<i>count</i>	(Optional) Repeat
size	(Optional) Packet
<i>size</i>	(Optional) Datagram
sweep	(Optional) Sweep
<i>min-size</i>	(Optional)
<i>max-size</i>	(Optional)
<i>increment</i>	(Optional) Sweep
timeout	(Optional) Timeout
<i>seconds</i>	(Optional) Timeout
interval	(Optional) Send
<i>milliseconds</i>	(Optional) Send
destination	(Optional) Destination

<i>addr-start</i>	(Optional) Destination
<i>addr-end</i>	(Optional) Destination
<i>addr-incr-mask</i>	(Optional) Destination
<i>addr-incr</i>	(Optional) Destination
source	(Optional) Source
<i>addr</i>	(Optional) Source
exp	(Optional) EXP
<i>exp-value</i>	(Optional) EXP
pad	(Optional) Pad
<i>pattern</i>	(Optional) Pad
ttl	(Optional) Time
<i>ttl</i>	(Optional) TTL
verbose	(Optional) verbose
reply	(Optional) Reply
mode	(Optional) Reply
reply-mode-ipv4	(Optional) Send
router-alert	(Optional) Send
control-channel	(Optional) Send
no-reply	(Optional) Send
dscp	(Optional) DSCP
<i>dscp-bits</i>	(Optional) Differentiated
af11	(Optional) Match
af12	(Optional) Match
af13	(Optional) Match
af21	(Optional) Match
af22	(Optional) Match
af23	(Optional) Match
af31	(Optional) Match
af32	(Optional) Match

af33	(Optional) Match
af41	(Optional) Match
af42	(Optional) Match
af43	(Optional) Match
cs1	(Optional) Match
cs2	(Optional) Match
cs3	(Optional) Match
cs4	(Optional) Match
cs5	(Optional) Match
cs6	(Optional) Match
cs7	(Optional) Match
default	(Optional) Match
ef	(Optional) Match
pad-tlv	(Optional) Reply
force-explicit-null	(Optional) Force
dsmap	(Optional) Request
hashkey	(Optional) Downstream
none	(Optional) Hash
hash-ipv4	(Optional) IPv4
bitmap	(Optional) Hash
<i>bitmap-size</i>	(Optional) Multipath
flags	(Optional) Flag
fec	(Optional) Request

#### 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 mutiple 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 acl tap-agg

[no] { platform | hardware } acl tap-agg

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
acl	Configure acl related configuration
tap-agg	Enable tap-aggregation feature on this pltfm

## 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 { 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 { 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 { 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 { burst-detect rise-threshold <val> bytes fall-threshold <val> bytes }

## 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
rise-threshold	Threshold bytes(queue depth) to start monitoring burst
<i>val</i>	Value in bytes
bytes	Bytes
fall-threshold	Threshold bytes(queue depth) to stop monitoring burst
<i>val</i>	Value in bytes
bytes	Bytes

## 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 { oq-stats [ { q0 | q1 | q2 | q3 | q4 | q5 | q6 | q7 | q8 | q9 } ] [ { counter0 | counter1 | counter2 | counter3 | counter4 | counter5 | counter6 | counter7 | counter8 | counter9 } ] type { all | <sel1> [ <sel2> ] } [ 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-stats	per output queue statistics
q0	(Optional) queueing statistics for qos-group q0 (default)
q1	(Optional) queueing statistics for qos-group q1
q2	(Optional) queueing statistics for qos-group q2
q3	(Optional) queueing statistics for qos-group q3
q4	(Optional) queueing statistics for qos-group q4
q5	(Optional) queueing statistics for qos-group q5
q6	(Optional) queueing statistics for qos-group q6
q7	(Optional) queueing statistics for qos-group q7
q8	(Optional) queueing statistics for qos-group q8 (cpu)
q9	(Optional) queueing statistics for qos-group q9 (span)
counter0	(Optional) use per-port counter 0
counter1	(Optional) use per-port counter 1
counter2	(Optional) use per-port counter 2
counter3	(Optional) use per-port counter 3
counter4	(Optional) use per-port counter 4
counter5	(Optional) use per-port counter 5
counter6	(Optional) use per-port counter 6
counter7	(Optional) use per-port counter 7
counter8	(Optional) use per-port counter 8

counter9	(Optional) use per-port counter 9
type	type of statistics
all	aggregated occ-drops + wred-drops + ecn-stats
<i>sel1</i>	
<i>sel2</i>	(Optional)
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 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 { 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 for EX platforms
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

```
[no] { platform | hardware } qos { [ cpu-pg-size <cpu-size> ] [ lcpu-pg-size <lcpu-size> ] [ span-pg-size <span-size> ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
cpu-pg-size	(Optional) Configure CPU Pool Group thresholds
<i>cpu-size</i>	(Optional) Pool Group size
lcpu-pg-size	(Optional) Configure LCPU Pool Group thresholds
<i>lcpu-size</i>	(Optional) Pool Group size
span-pg-size	(Optional) Configure SPAN Pool Group thresholds
<i>span-size</i>	(Optional) Pool Group size

## 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-FX PG-size

[no] { platform | hardware } qos nodrop-PG-thresholds-FX PG-size <pg-total>

### 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-FX	Configure No-drop Pool Group thresholds for FX platforms
PG-size	Configure No-drop Pool Group size
<i>pg-total</i>	Pool Group size

### Command Mode

- /exec/configure

## platform qos nodrop-PG-thresholds PG-size

[no] { platform | hardware } qos nodrop-PG-thresholds PG-size <pg-total>

### 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

### 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 for EX platforms
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-FX Queue-green

[no] { platform | hardware } qos nodrop-queue-thresholds-FX 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-FX	Configure No-drop PG's Queue thresholds for FX platforms
Queue-green	Configure No-drop PG Queue green threshold
<i>q-green</i>	PG Queue green threshold

### Command Mode

- /exec/configure

# platform qos nodrop-queue-thresholds-roc Queue-green

[no] { platform | hardware } qos nodrop-queue-thresholds-roc 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-roc	Configure No-drop PG's Queue thresholds
Queue-green	Configure No-drop PG Queue green threshold
<i>q-green</i>	PG Queue green threshold

## Command Mode

- /exec/configure

## platform qos nodrop-queue-thresholds 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 for EX platforms
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 <fl-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 <fl-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>fl-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 <fl-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 <fl-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>fl-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

# plb

[no] plb [ <svc-name> ] [ service <service-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
plb	Configure PLB
<i>svc-name</i>	(Optional) Specify PLB service name [Deprecated]
service	(Optional) Configure PLB service [Preferred]
<i>service-name</i>	(Optional) Specify PLB service name

## Command Mode

- /exec/configure

# plb analytics

[no] plb analytics <service-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
plb	Configure PLB
analytics	Enable PLB service analytics
<i>service-name</i>	PLB service name

## Command Mode

- /exec/configure

# plb device-group

[no] plb device-group <group-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
plb	Configure PLB
device-group	Configure PLB device group
<i>group-name</i>	Specify device-group name

## Command Mode

- /exec/configure

# pnp accelerate

pnp accelerate

## Syntax Description

pnp	Plug and Play
accelerate	Accelerate PnP discovery

## Command Mode

- /exec/configure



# pnp profile transport http

pnp profile transport { http | https } <ipaddr> <tport> | no pnp profile

## Syntax Description

no	Negate a command or set its defaults
pnp	Plug and Play
profile	Configure Static Profile
transport	Transport to be used
http	HTTP Protocol
https	HTTPS Protocol
<i>ipaddr</i>	Specify IP address
<i>tport</i>	Specify TCP port

## Command Mode

- /exec/configure

## pnp startup-vlan

[no] pnp startup-vlan <vlan>

### Syntax Description

no	(Optional) disable pnp startup vlan configured. default value is vlan 1
pnp	plug and play
startup-vlan	PnP startup-vlan
<i>vlan</i>	PNP vlan id. Default vlan is 1

### Command Mode

- /exec/configure

# 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





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> [ 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 { 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
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 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

# policer

[no] policer

## Syntax Description

no	(Optional) Negate a command or set its defaults
policer	Flow rate limiter installed in hardware

## Command Mode

- /exec/configure/nbm-flow-policy/attr

# policer

[no] policer

## Syntax Description

no	(Optional) Negate a command or set its defaults
policer	Flow rate limiter installed in hardware

## Command Mode

- /exec/configure/nbm-vrf/nbm-flow-policy/attr

# 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 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

[no] policy <pol-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
policy	Identifying name for policy with max 128 characters
<i>pol-name</i>	Configure Policy name

## Command Mode

- /exec/configure/sr/te

# 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 { <cfg-pol-name> | <unknown-pol-name> }

## Syntax Description

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

## Command Mode

- /exec/configure/nbm-flow-policy

# policy

[no] policy { <cfg-pol-name> | <unknown-pol-name> }

## Syntax Description

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

## Command Mode

- /exec/configure/nbm-vrf/nbm-flow-policy

# 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 fast-convergence

port-channel fast-convergence | no port-channel fast-convergence

## Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
fast-convergence	Enable/Disable port-channel fast convergence

## Command Mode

- /exec/configure

## 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

```
port-channel load-balance <bndl_hash> <bndl_sel> <encap> [ rotate <po-lb-rotate-range> ] [ symmetric ] |
no port-channel load-balance [ <bndl_hash> <bndl_sel> <encap> [ rotate <po-lb-rotate-range> ] [ 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
<i>encap</i>	encapsulation
rotate	(Optional) offset the hash-input
<i>po-lb-rotate-range</i>	(Optional) offset the hash-input
symmetric	(Optional) symmetric load balancing

### 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-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 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-channel scale-fanout

port-channel scale-fanout | no port-channel scale-fanout

## Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
scale-fanout	Enable/disable port-channel scale-fanout when ports span more than 16 ASIC units

## Command Mode

- /exec/configure

# port-group

{ port-group <name> } | { no port-group <name> }

## Syntax Description

no	Negate a command or set its defaults
port-group	catena port group
<i>name</i>	catena port group name

## Command Mode

- /exec/configure/catena

# port-group

{ port-group <name> } | { no port-group <name> }

## Syntax Description

no	Negate a command or set its defaults
port-group	smart channel port group
<i>name</i>	smart channel port group name

## Command Mode

- /exec/configure/smarte

# port-license

[no] port-license [ acquire ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-license	Enable port activation license
acquire	(Optional) Acquire port activation license

## Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext

# port-license

[no] port-license [ acquire ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-license	Enable port activation license
acquire	(Optional) Acquire port activation license

## Command Mode

- /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext



# 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-type

[no] port-type <type>

## Syntax Description

no	(Optional) Negate a command or set its defaults
port-type	Identifies if port is fabric-facing or not
<i>type</i>	Facing port-type

## Command Mode

- /exec/configure/if-eth-non-member /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-ether-sub-p2p

# port

{ { [ no ] port <i0> } | { no port } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
port	Specify port on which local radius server listens
<i>i0</i>	Radius server port (default is 1700)

## Command Mode

- /exec/configure/locsvr-da-radius

# port

```
{ port <sport> <dport> }
```

## Syntax Description

port	L4 port info
<i>sport</i>	Source port
<i>dport</i>	Destination port

## Command Mode

- /exec/configure/configngoamccpayload

# port

{ no port | port <value> }

## Syntax Description

no	
port	Port on which to listen
<i>value</i>	Max port value

## Command Mode

- /exec/configure/config-twamp-srvr

# port control

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

## Syntax Description

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

## Command Mode

- /exec/configure/plb-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

## port type ethernet

[no] port <port-range> type { ethernet | fc }

### Syntax Description

no	(Optional) Negate a command or set its defaults
port	Configure a port
<i>port-range</i>	Enter a port range
type	Configure a port type
ethernet	Ethernet Port
fc	FC Port

### Command Mode

- /exec/configure/slot



# postcard-telemetry exporter

[no] postcard-telemetry exporter <exportername>

## Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
exporter	Define a events Exporter
<i>exportername</i>	Name of event Exporter

## Command Mode

- /exec/configure/config-postcard

# postcard-telemetry flow-profile

[no] postcard-telemetry flow-profile

## Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
flow-profile	Define a POSTCARD flow-profile

## Command Mode

- /exec/configure/config-postcard

# postcard-telemetry monitor

[no] postcard-telemetry monitor <monitorname>

## Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
monitor	Define a POSTCARD Monitor
<i>monitorname</i>	Name of POSTCARD Monitor

## Command Mode

- /exec/configure/config-postcard

# postcard-telemetry queue-profile

[no] postcard-telemetry queue-profile [ <queue\_profilename> | queue-profile-default ]

## Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
queue-profile	Define a POSTCARD queue_profile
<i>queue_profilename</i>	(Optional) Name of POSTCARD queue_profile
queue-profile-default	(Optional) Queue Profile Default Configuration

## Command Mode

- /exec/configure/config-postcard

# postcard-telemetry system monitor

[no] postcard-telemetry system monitor <monitorname>

## Syntax Description

system	global config
postcard-telemetry	postcard global settings
monitor	postcard Monitor to be applied
<i>monitorname</i>	postcard Monitor to be applied

## Command Mode

- /exec/configure/config-postcard

# postcard-telemetry watchlist ip

[no] postcard-telemetry watchlist ip <watchlistname>

## Syntax Description

postcard-telemetry	Enable/Disable postcard telemetry configuration
watchlist	Define a POSTCARD watchlist
ip	Configure POSTCARD IP watchlist
<i>watchlistname</i>	Name of POSTCARD watchlist

## Command Mode

- /exec/configure/config-postcard

# 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 inline

```
{ power inline { <port-mode-never> | <port-mode> [ max <wattage> ] } } | { no power inline { <port-mode-never> | <port-mode> } }
```

## Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
<i>port-mode-never</i>	configure POE port mode
<i>port-mode</i>	configure POE port mode
max	(Optional) Configure the max power per interface
<i>wattage</i>	(Optional) milli-watts

## Command Mode

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

## power inline default\_consumption

{ power inline default\_consumption <wattage> } | { no power inline default\_consumption }

### Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
default_consumption	POE port default consumption
<i>wattage</i>	milli-watts

### Command Mode

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

# power inline police action

{ power inline police action <police-action> } | { no power inline police action }

## Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
police	Configure POE port police parameters
action	Configure action in port when power allocation exceeds
<i>police-action</i>	configure POE port action

## Command Mode

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

# power inline port priority

{ power inline port priority <port-priority> } | { no power inline port priority <port-priority> }

## Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
port	Configure POE port parameters
priority	Configure the priority for the port
<i>port-priority</i>	configure POE port priority

## Command Mode

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

# 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

## 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

[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 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

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

# preference

[no] preference <pref>

## Syntax Description

no	(Optional) Negate a command or set its defaults
preference	Candidate path-option preference entry
<i>pref</i>	Path-option preference

## Command Mode

- /exec/configure/sr/te/color/cndpaths

# preference

[no] preference <pref>

## Syntax Description

no	(Optional) Negate a command or set its defaults
preference	Policy path-option preference entry
<i>pref</i>	Path-option preference

## Command Mode

- /exec/configure/sr/te/pol/cndpaths

# preference max

[no] preference max <pref-val>

## Syntax Description

no	(Optional) Negate a command or set its defaults
<i>pref-val</i>	maximum value

## Command Mode

- /exec/configure/config-dhcp-guard

# preference min

[no] preference min <pref-val>

## Syntax Description

no	(Optional) Negate a command or set its defaults
<i>pref-val</i>	maximum value

## Command Mode

- /exec/configure/config-dhcp-guard

# 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-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	pfc related commands
auto-restore	auto restore
multiplier	Auto restore multiplier
<i>val</i>	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 [ send-tlv ] | 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
send-tlv	(Optional) Send DCBX TLV for 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 tah-recover interface

```
priority-flow-control tah-recover interface <if_list> [ qos-group <qos> ] [ module <module> ]
```

### Syntax Description

priority-flow-control	Change PFC settings
tah-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>qos</i>	(Optional) qos-group number of the no-drop class
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

### Command Mode

- /exec

## priority-flow-control watch-dog-interval on

```
[no] priority-flow-control watch-dog-interval { on [ disable-action ] [ interface-multiplier <multiplier-val> ]
| 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
disable-action	(Optional) Only generate syslog for stuck queue, no action
interface-multiplier	(Optional) Shutdown multiplier value
<i>multiplier-val</i>	(Optional) Shutdown mutlipler value
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 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 forced on

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

## Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfc related commands
watch-dog	watch dog interval
forced	Force enable watch-dog behaviour globally
on	Enable PFC watch-dog globally
off	Disable PFC watch-dog globally

## Command Mode

- /exec/configure



# 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	pfc related commands
watch-dog	watch dog interval
shutdown-multiplier	Shutdown multiplier
<i>val</i>	Shutdown multiplier

## Command Mode

- /exec/configure

# 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

# 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 <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

# 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



# 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

# 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 synchronize

private-vlan synchronize

## Syntax Description

private-vlan	Set private-vlan synchronization
synchronize	Synchronize vlans

## Command Mode

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

# probe-interval

probe-interval <probeinterval-val> | no probe-interval

## Syntax Description

no	Negate a command or set its defaults
probe-interval	OpenFlow controller probe interval timer (default is 180 seconds)
<i>probeinterval-val</i>	probe interval timer value in secs

## Command Mode

- /exec/configure/openflow/switch

# probe-interval

probe-interval <probeinterval-val> | no probe-interval

## Syntax Description

no	Negate a command or set its defaults
probe-interval	OpenFlow controller probe interval timer (default is 180 seconds)
<i>probeinterval-val</i>	probe interval timer value in secs

## Command Mode

- /exec/configure/openflow/switch/sub-switch



# 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	Configure probe for node
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count

## Command Mode

- /exec/configure/plb-device-group

# probe

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

## Syntax Description

no	Negate a command or set its defaults
probe	Catena 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
source-interface	(Optional) catena probe Source-Interface
<i>interface</i>	(Optional) source interface for probe
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/catena-device-grp

# 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> | 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

[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	Configure probe for node
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/plb-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	Configure probe for node
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/plb-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>	(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 in seconds
timeout	(Optional) Timeout
<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 get

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

## Syntax Description

no	Negate a command or set its defaults
probe	Catena 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
source-interface	(Optional) catena probe Source-Interface
<i>interface</i>	(Optional) source interface for probe
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/catena-device-grp

# 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 in seconds
timeout	(Optional) Timeout
<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 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 in seconds
timeout	(Optional) Timeout
<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 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 host

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

## Syntax Description

no	Negate a command or set its defaults
probe	Catena 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
source-interface	(Optional) catena probe Source-Interface
<i>interface</i>	(Optional) source interface for probe
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/catena-device-grp

# 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 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> | ip <ip-addr> ] +

## Syntax Description

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

## Command Mode

- /exec/configure/plb-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	PLB 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/plb-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	Configure probe for PLB device group node
<i>probe-id</i>	Service mode
port	TCP/UDP Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/plb-dg-node

# probe port

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

## Syntax Description

no	Negate a command or set its defaults
probe	Catena 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
source-interface	(Optional) catena probe Source-Interface
<i>interface</i>	(Optional) source interface for probe
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/catena-device-grp

# 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

# 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	Configure probe for node
<i>probe-id</i>	Service mode
port	TCP/UDP Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

## Command Mode

- /exec/configure/plb-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	Configure probe for node
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	TCP/UDP Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count

## Command Mode

- /exec/configure/plb-device-group

# profile

[no] profile <profile-name>

## Syntax Description

no	(Optional) Negate the command
profile	Packet Drop Profile
<i>profile-name</i>	Profile name

## Command Mode

- /exec/configure/pkt-drop

# profile

{ profile <pid> | no profile }

## Syntax Description

no	Negate a command or set its defaults
profile	NGOAM profile to use
<i>pid</i>	NGOAM profile id

## Command Mode

- /exec/configure/configngoamconnectcheck

# profile

[no] profile <profilename>

## Syntax Description

profile	Specify the profile to be applied
<i>profilename</i>	profile name to be applied

## Command Mode

- /exec/configure/nfm-system

# 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

# protected

[no] { protected | unprotected }

## Syntax Description

no	(Optional) Negate a command or set its defaults
protected	Candidate path-option protected
unprotected	Candidate path-option unprotected

## Command Mode

- /exec/configure/sr/te/pol/cndpaths/pref/constraint/sgmnt

# protected

[no] { protected | unprotected }

## Syntax Description

no	(Optional) Negate a command or set its defaults
protected	Candidate path-option protected
unprotected	Candidate path-option unprotected

## Command Mode

- /exec/configure/sr/te/color/cndpaths/pref/constraint/sgmnt



# 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

# proto

{ proto <proto-id> }

## Syntax Description

proto	Protocol
<i>proto-id</i>	IANA Protocol id

## Command Mode

- /exec/configure/configngoamccpayload

# protocol-version

protocol-version { <10> | <13> | negotiate } | no protocol-version

## Syntax Description

no	Negate a command or set its defaults
protocol-version	Set OpenFlow protocol version
10	Use only OF 1.0 protocol to connect to controller
13	Use only OF 1.3 protocol to connect to controller
negotiate	Negotiate protocol with controller

## Command Mode

- /exec/configure/openflow/switch/sub-switch

# protocol-version

protocol-version { <10> | <13> | negotiate } | no protocol-version

## Syntax Description

no	Negate a command or set its defaults
protocol-version	Set OpenFlow protocol version
10	Use only OF 1.0 protocol to connect to controller
13	Use only OF 1.3 protocol to connect to controller
negotiate	Negotiate protocol with controller

## Command Mode

- /exec/configure/openflow/switch

# protocol

[no] protocol <proto> [ prefix-list <pflist-name> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
<i>proto</i>	
<i>pflist-name</i>	(Optional) Name of the prefix-list to be matched

## Command Mode

- /exec/configure/config-snoop-policy

# 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-ospf3 /exec/configure/router-ospf3/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-ospf /exec/configure/router-ospf/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>	
<i>smpte-val</i>	SMPTE-2059-2 <i>val</i>
<i>aes-val</i>	AES67-2015 <i>val</i>

### Command Mode

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

# ptp clock-identity

ptp clock-identity <mac-address> | no ptp clock-identity

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock-identity	clock-identity
<i>mac-address</i>	Mac Address

## Command Mode

- /exec/configure

# ptp clock-sync auto

[no] ptp clock-sync auto

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock-sync	clock-sync
auto	auto adjust frequency

## Command Mode

- /exec/configure

## 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 convergence-time

[no] ptp convergence-time [ <val> ]

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
convergence-time	Convergence time for Grandmaster capable node, default 10 seconds
<i>val</i>	(Optional) convergence-time

### Command Mode

- /exec/configure

## ptp correction-range

[no] ptp correction-range <threshold-value>

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
correction-range	set correction range threshold value
<i>threshold-value</i>	correction threshold (ns) [-value, +value], default 100000 (100 us)

### Command Mode

- /exec/configure



# ptp correction-range logging

[no] ptp correction-range logging

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
correction-range	set correction range threshold value
logging	enable logging for corrections exceeding threshold value

## Command Mode

- /exec/configure

# ptp correction hardware

[no] ptp correction hardware

## Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem
correction	Corrections for PTP
hardware	Frequency correction from hardware or software

## Command Mode

- /exec/configure

# ptp cost

[no] ptp cost <cost>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
cost	Cost associated with the interface
<i>cost</i>	Cost

## Command Mode

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

## 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 device-type boundary

[no] ptp device-type { boundary-clock | generalized-ptp }

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
device-type	ptp device-type
boundary-clock	boundary-clock
generalized-ptp	Generalized PTP

## Command Mode

- /exec/configure

# 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 domain

[no] ptp domain <domain-val>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp domain to be associated with interface
<i>domain-val</i>	Enter configured domain value, default 0

## Command Mode

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

## ptp domain clock-accuracy-threshold

[no] ptp domain <domain-val> clock-accuracy-threshold <threshold-value>

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Domain value, default is 0
clock-accuracy-threshold	Domain clock accuracy threshold
<i>threshold-value</i>	Domain clock accuracy threshold value, default is 254

### Command Mode

- /exec/configure



# ptp domain clock-class-threshold

[no] ptp domain <domain-val> clock-class-threshold <threshold-value>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Domain value, default is 0
clock-class-threshold	Domain clock class threshold
<i>threshold-value</i>	Domain clock class threshold value, default is 248

## Command Mode

- /exec/configure

## ptp domain priority

[no] ptp domain <domain-val> priority <priority-val>

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Domain value, default is 0
priority	Domain priority
<i>priority-val</i>	Domain priority value, default is 255

### Command Mode

- /exec/configure

# ptp grandmaster-capable

ptp grandmaster-capable | no ptp grandmaster-capable [ convergence-time <val> ]

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
grandmaster-capable	Grandmaster capability
convergence-time	(Optional) Convergence time in seconds
<i>val</i>	(Optional) convergence

## Command Mode

- /exec/configure

## ptp mean-path-delay

[no] ptp mean-path-delay <threshold-value>

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
mean-path-delay	set mean-path-delay threshold value
<i>threshold-value</i>	mean-path-delay threshold (ns), default 1000000000 (1 sec)

### Command Mode

- /exec/configure

# ptp multi-domain

ptp multi-domain | no ptp multi-domain

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multi-domain	Configure ptp multi-domain

## Command Mode

- /exec/configure

# ptp multi-domain transition-attributes priority1

[no] ptp multi-domain transition-attributes priority1 <priority1-value>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multi-domain	Configure ptp multi-domain
transition-attributes	ptp multi-domain priority domain conversion attributes
priority1	domain conversion priority1 value
<i>priority1-value</i>	Enter domain priority1 value, default 255

## Command Mode

- /exec/configure

## ptp multi-domain transition-attributes priority2

[no] ptp multi-domain transition-attributes priority2 <priority2-value>

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multi-domain	Configure ptp multi-domain
transition-attributes	ptp multi-domain priority domain conversion attributes
priority2	domain conversion priority2 value
<i>priority2-value</i>	Enter domain priority2 value, default 255

### 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 neighbor propagation-delay-threshold

[no] ptp neighbor propagation-delay-threshold <nseconds>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
neighbor	ptp neighbor
propagation-delay-threshold	GPTP propagation delay threshold
<i>nseconds</i>	Interval in nano-seconds

## 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 pdelay-req-interval

[no] ptp pdelay-req-interval <val>

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
pdelay-req-interval	Log mean peer delay request interval
<i>val</i>	value

## 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	Priority2
<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 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 ucast 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

# 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

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