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ha-policy single

ha-policy { single-sup <hap-change> | dual-sup <sw-change> } +

Syntax Description

ha-policy	Change HA policy for this VDC
<i>hap-change</i>	Change HA policy for this VDC
single-sup	Change HA policy for this VDC for single-sup situations
dual-sup	Change HA policy for this VDC for dual-sup situations
<i>sw-change</i>	Set hap policy

Command Mode

- /exec/configure/vdc

hardware-telemetry buffer-drop

[no] hardware-telemetry buffer-drop

Syntax Description

hardware-telemetry	Hardware telemetry configuration
buffer-drop	Enable/Disable buffer drop configuration

Command Mode

- /exec/configure

hardware-telemetry buffer-latency

[no] hardware-telemetry buffer-latency

Syntax Description

hardware-telemetry	Hardware telemetry configuration
buffer-latency	Enable/Disable Buffer Latency configuration

Command Mode

- /exec/configure

hardware-telemetry inband-telemetry

[no] hardware-telemetry inband-telemetry

Syntax Description

hardware-telemetry	Hardware telemetry configuration
inband-telemetry	Enable/Disable inband telemetry configuration

Command Mode

- /exec/configure

hardware-telemetry int-clone-md

[no] hardware-telemetry int-clone-md

Syntax Description

hardware-telemetry	Hardware telemetry configuration
int-clone-md	Enable/Disable INT Clone MD configuration

Command Mode

- /exec/configure

hardware-telemetry postcard-telemetry

[no] hardware-telemetry postcard-telemetry

Syntax Description

hardware-telemetry	Hardware telemetry configuration
postcard-telemetry	Enable/Disable postcard telemetry configuration

Command Mode

- /exec/configure

hardware-telemetry ssx

[no] hardware-telemetry ssx

Syntax Description

hardware-telemetry	Hardware Telemetry Configurations
ssx	enable Streaming Statistics Exporter Configurations

Command Mode

- /exec/configure

hardware N2232P slow-port-error-disable-time

hardware N2232P slow-port-error-disable-time <val> | no hardware N2232P slow-port-error-disable-time

Syntax Description

no	Negate the command
hardware	FEX Card type
slow-port-error-disable-time	Slow port error-disable time
N2232P	Fabric Extender 32x10G SFP+ 8x10G SFP+ Module
<i>val</i>	Error-disable time in ms

Command Mode

- /exec/configure/fex handle auto 190

hardware N2232TM-E slow-port-error-disable-time

hardware N2232TM-E slow-port-error-disable-time <val> | no hardware N2232TM-E slow-port-error-disable-time

Syntax Description

no	Negate the command
hardware	FEX Card type
slow-port-error-disable-time	Slow port error-disable time
N2232TM-E	Fabric Extender 32x10GBase-T 8x10GBase SFP+ with bcom phy
<i>val</i>	Error-disable time in ms

Command Mode

- /exec/configure/fex handle auto 190

hardware UCS2204XP slow-port-error-disable-time

hardware UCS2204XP slow-port-error-disable-time <val> | no hardware UCS2204XP
slow-port-error-disable-time

Syntax Description

no	Negate the command
hardware	FEX Card type
slow-port-error-disable-time	Slow port error-disable time
UCS2204XP	UCS IOM 4 ports
<i>val</i>	Error-disable time in ms

Command Mode

- /exec/configure/fex handle auto 190

hardware UCS2208XP slow-port-error-disable-time

hardware UCS2208XP slow-port-error-disable-time <val> | no hardware UCS2208XP
slow-port-error-disable-time

Syntax Description

no	Negate the command
hardware	FEX Card type
slow-port-error-disable-time	Slow port error-disable time
UCS2208XP	UCS IOM 8 ports
<i>val</i>	Error-disable time in ms

Command Mode

- /exec/configure/fex handle auto 190

hardware access-list lou resource threshold

[no] hardware access-list lou resource threshold <threshold>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
lou	LOU
resource	hardware resource
threshold	port expansion threshold
<i>threshold</i>	value of threshold

Command Mode

- /exec/configure

hardware access-list match inner-header

[no] hardware access-list match inner-header

Syntax Description

no	(Optional) Negate the command or set its defaults
hardware	Change hardware usage settings
access-list	Access Control List
match	Match criteria in ACL
inner-header	Match inner header fields in IPinIP/GRE packets

Command Mode

- /exec/configure

hardware access-list tcam label egr-l2-qos 6

[no] hardware access-list tcam label egr-l2-qos 6

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
label	Team entry label info
egr-l2-qos	Egress L2 qos region
6	Size in bits for IFACL-Labels allocated to Egress L2 QOS region

Command Mode

- /exec/configure

hardware access-list tcam label ing-ifacl 6

[no] hardware access-list tcam label ing-ifacl 6

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
label	Tcam entry label info
ing-ifacl	Ingress PACL region
6	Size in bits for IFACL-Labels allocated to Ingress PACL region

Command Mode

- /exec/configure

hardware access-list tcam label ing-qos optimize

[no] hardware access-list tcam label ing-qos optimize

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
label	Team entry label info
ing-qos	Ingress QOS and L3 QOS region
optimize	Optimize bits for IFACL and BD Labels allocated to QOS and L3 QOS regions

Command Mode

- /exec/configure

hardware access-list tcam label ing-racl 9

[no] hardware access-list tcam label ing-racl 9

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
label	Tcam entry label info
ing-racl	Ingress RACL region
9	Size in bits for BD-Labels allocated to Ingress-RACL region

Command Mode

- /exec/configure

hardware access-list tcam label vrf-nat

[no] hardware access-list tcam label vrf-nat <label_width>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
label	Team entry label info
vrf-nat	Ingress vrf-aware NAT region
<i>label_width</i>	Enter label width

Command Mode

- /exec/configure

hardware access-list tcam per-entry-stats template

hardware access-list tcam per-entry-stats template <template-type>

Syntax Description

hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
per-entry-stats	Per Entry Stats
template	Configure template-based feature stats
<i>template-type</i>	

Command Mode

- /exec/configure

hardware access-list tcam region

[no] hardware access-list tcam region <type> <tcam_size> [match-profile <match-profile-num>] [per-port-stats]

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>type</i>	Region type
<i>tcam_size</i>	Enter tcam size
match-profile	(Optional) Tcam match filter profile
<i>match-profile-num</i>	(Optional) tcam region profile
per-port-stats	(Optional) Per Port Stats

Command Mode

- /exec/configure

hardware access-list tcam region double-wide

[no] hardware access-list tcam region <double-wide-region> <tcam_size> double-wide

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>double-wide-region</i>	Region type
<i>tcam_size</i>	Enter tcam size
double-wide	Double Width

Command Mode

- /exec/configure

hardware access-list tcam region ing-flow-redirect

[no] hardware access-list tcam region ing-flow-redirect <tcam_size>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
ing-flow-redirect	Egress region in ACX
<i>tcam_size</i>	Enter tcam size

Command Mode

- /exec/configure

hardware access-list tcam region qualify

[no] hardware access-list tcam region <udf_tcam_type> qualify <udf_version> { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>udf_tcam_type</i>	Region type
qualify	Configure UDFs to be qualified for region
<i>udf_version</i>	UDF vesion
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware access-list tcam region tcp-nat

[no] hardware access-list tcam region tcp-nat <tcam_size>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
tcp-nat	TCP NAT region within NAT region
<i>tcam_size</i>	Enter tcam size

Command Mode

- /exec/configure

hardware ecmp hash-offset

[no] hardware ecmp hash-offset <value> [concatenation] | no hardware ecmp hash-offset

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
ecmp	ECMP configuration
hash-offset	Configure hash offset
<i>value</i>	Hash offset 0-15 non-concatenate mode, 0-63 concatenate mode
concatenation	(Optional) Configure hash concatenation

Command Mode

- /exec/configure

hardware ecmp hash-polynomial

hardware ecmp hash-polynomial <poly-type> | no hardware ecmp hash-polynomial

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
ecmp	ECMP configuration
hash-polynomial	Configure hash polynomial
<i>poly-type</i>	Polynomial type

Command Mode

- /exec/configure

hardware ejector enable

[no] hardware ejector enable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
ejector	Card ejector functionality
enable	enabled means when both ejectors are open, card is powered down

Command Mode

- /exec/configure

hardware fan-sprom

[no] hardware fan-sprom

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
fan-sprom	Enable reading of FAN SPROM on supported models

Command Mode

- /exec/configure

hardware fan-zone raise-speed

[no] hardware fan-zone <fan_zone_id> raise-speed <speed-to-raise>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
fan-zone	Fan Zone supported in the switch
<i>fan_zone_id</i>	please enter fan zone id whose speed needs to be increased
raise-speed	Speed to be added for current fan zone speed
<i>speed-to-raise</i>	please enter additional fan speed

Command Mode

- /exec/configure

hardware flow-table analytics-netflow

[no] hardware flow-table analytics-netflow

Syntax Description

hardware	Hardware Internal Information
flow-table	Flow table
analytics-netflow	Enable both features

Command Mode

- /exec/configure

hardware flow-table collect-drop-reason

[no] hardware flow-table collect-drop-reason

Syntax Description

hardware	Hardware Internal Information
flow-table	Flow table
collect-drop-reason	Enable dropCollect feature

Command Mode

- /exec/configure

hardware flow-table collect-drop-reason

[no] hardware flow-table collect-drop-reason

Syntax Description

hardware	Hardware Internal Information
flow-table	Flow table
collect-drop-reason	Enable dropCollect feature

Command Mode

- /exec/configure

hardware forwarding ip statistics

[no] hardware forwarding ip statistics

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
forwarding	forwarding information
ip	address family
statistics	enable hardware statistics

Command Mode

- /exec/configure

hardware forwarding l3 resource route non-deterministic

[no] hardware forwarding l3 resource route non-deterministic

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	hardware information
forwarding	forwarding information
l3	Layer-3
resource	hardware resources
route	TCAM capacity to hold prefixes
non-deterministic	extend upto 1M

Command Mode

- /exec/configure

hardware forwarding unicast trace

[no] hardware forwarding unicast trace

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
forwarding	Hardware forwarding
unicast	Hardware Unicast forwarding
trace	Debug traces

Command Mode

- /exec/configure

hardware ip glean throttle

[no] hardware ip glean throttle

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle

Command Mode

- /exec/configure

hardware ip glean throttle maximum

{ hardware ip glean throttle maximum <count> } | { no hardware ip glean throttle maximum }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
maximum	Maximum number of entries
<i>count</i>	Count

Command Mode

- /exec/configure

hardware ip glean throttle syslog

{ hardware ip glean throttle syslog <pkt-count> } | { no hardware ip glean throttle syslog }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
syslog	Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>	Packet count

Command Mode

- /exec/configure

hardware ip glean throttle timeout

{ hardware ip glean throttle timeout <timeout-in-sec> } | { no hardware ip glean throttle timeout }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
timeout	Timeout
<i>timeout-in-sec</i>	Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

Command Mode

- /exec/configure

hardware ipv6 glean throttle

[no] hardware ipv6 glean throttle

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle

Command Mode

- /exec/configure

hardware ipv6 glean throttle maximum

{ hardware ipv6 glean throttle maximum <count> } | { no hardware ipv6 glean throttle maximum }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
maximum	Maximum number of entries
<i>count</i>	Count

Command Mode

- /exec/configure

hardware ipv6 glean throttle syslog

```
{ hardware ipv6 glean throttle syslog <pkt-count> } | { no hardware ipv6 glean throttle syslog }
```

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
syslog	Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>	Packet count

Command Mode

- /exec/configure

hardware ipv6 glean throttle timeout

{ hardware ipv6 glean throttle timeout <timeout-in-sec> } | { no hardware ipv6 glean throttle timeout }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
timeout	Timeout
<i>timeout-in-sec</i>	Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

Command Mode

- /exec/configure

hardware module boot-order reverse

[no] hardware module boot-order reverse

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
module	applies on all the modules
boot-order	Configure order of module power-up
reverse	reverse order of module power-up

Command Mode

- /exec/configure

hardware multicast global-tx-span

[no] hardware multicast global-tx-span

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
multicast	Change multicast setting
global-tx-span	Modify table programming to support TX multicast SPAN across slices

Command Mode

- /exec/configure

hardware profile buffer info poll-interval timer

[no] hardware profile buffer info poll-interval [module <module>] timer <msec>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	Buffer
info	Information
poll-interval	System buffer status polling interval
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
timer	Polling timer
<i>msec</i>	Polling timer value in msec

Command Mode

- /exec/configure

hardware profile buffer info port-threshold threshold

[no] hardware profile buffer info port-threshold [module <module>] threshold <value>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	Buffer
info	Information
port-threshold	Set port egress buffer usage threshold
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
threshold	threshold value
<i>value</i>	percentage of maximum usage

Command Mode

- /exec/configure

hardware profile buffer info syslog-interval timer

[no] hardware profile buffer info syslog-interval timer <sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	Buffer
info	Information
syslog-interval	time-interval for buffer event syslogs
timer	Polling timer
<i>sec</i>	0 - syslogging off non-zero - time value in seconds

Command Mode

- /exec/configure

hardware profile buffer monitor unicast

hardware profile buffer monitor { unicast | multicast } [internal] [sampling <sampling>] [threshold <threshold>] [interface <intf-num> | sclass <sclass>] | no hardware profile buffer monitor

Syntax Description

no	Negate a command or set its defaults
hardware	Configure hardware profile buffer monitor settings
profile	profile buffer monitor settings
buffer	Buffer
monitor	buffer monitor
unicast	unicast
multicast	multicast
internal	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
sampling	(Optional) sampling interval in nano-seconds
<i>sampling</i>	(Optional) sampling interval in nano-seconds
threshold	(Optional) histogram threshold in Kbytes with 384 Kbytes increment
<i>threshold</i>	(Optional) histogram threshold in Kbytes with 384 Kbytes increment
interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>intf-num</i>	(Optional) enable buffer monitoring on an interface
sclass	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>sclass</i>	(Optional) enable buffer monitoring on a system class of services

Command Mode

- /exec/configure

hardware profile buffer qosgroup threshold

[no] hardware profile buffer qosgroup <groupid> threshold <percentage>

Syntax Description

no	(Optional) Negate the command
hardware	N3500
profile	Profile
buffer	Buffer
qosgroup	Qos-group
<i>groupid</i>	Group-id
threshold	Threshold
<i>percentage</i>	Percentage of maximum usage

Command Mode

- /exec/configure

hardware profile buffer span-threshold

[no] hardware profile buffer span-threshold <percentage>

Syntax Description

no	(Optional) Negate the command
hardware	N3500
profile	Profile
buffer	Buffer
span-threshold	Span Threshold
<i>percentage</i>	Percentage of maximum usage

Command Mode

- /exec/configure

hardware profile buffer stuck reset-reload lenient

hardware profile buffer stuck reset-reload { lenient | aggressive } | no hardware profile buffer stuck reset-reload

Syntax Description

no	Negate a command or set its defaults
hardware	Configure hardware buffer stuck reset settings
profile	profile reset settings
buffer	Buffer
stuck	stuck scenario
reset-reload	reload the switch
lenient	10 second interval buffer probing
aggressive	5 second interval buffer probing

Command Mode

- /exec/configure

hardware profile disable parse-err

[no] hardware profile disable parse-err

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
disable	Disable
parse-err	Drops due to parse error

Command Mode

- /exec/configure

hardware profile ecmp auto-recovery threshold

hardware profile ecmp auto-recovery threshold <percentage> | no hardware profile ecmp auto-recovery threshold

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
ecmp	ECMP settings
auto-recovery	ECMP auto-recovery settings
threshold	ECMP table free percentage threshold for auto-recovery
<i>percentage</i>	Percentage

Command Mode

- /exec/configure

hardware profile ecmp resilient

[no] hardware profile ecmp resilient

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
ecmp	ECMP settings
resilient	Configure ECMP resilient mode

Command Mode

- /exec/configure

hardware profile ecmp template module

[no] hardware profile ecmp template [l3vpn] module <module>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Set hardware profile
profile	Profile settings
ecmp	set the ecmp template profile
template	set the ecmp template profile
l3vpn	(Optional) set the l3vpn ecmp template profile
module	Enter module number
<i>module</i>	

Command Mode

- /exec/configure

hardware profile flow-redirect forward-pdu

[no] hardware profile flow-redirect forward-pdu

Syntax Description

no	(Optional) Negate the command
hardware	N3500
profile	Profile
flow-redirect	FlowRedirect
forward-pdu	Forward_pdu

Command Mode

- /exec/configure

hardware profile forwarding-mode warp

```
[no] hardware profile forwarding-mode { warp [ lpm-entry <lpm_warp> host-entry <host> l2-entry <l2>
mcast-entry <mcst_warp> ] | normal [ lpm-entry <ipv4> mcast-entry <mcst> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
forwarding-mode	Forwarding mode setting
warp	Warp forwarding mode setting
normal	Normal forwarding mode setting
lpm-entry	(Optional) 4K aligned total IPv4 entries
<i>ipv4</i>	(Optional) 4K aligned total IPv4 entries
mcast-entry	(Optional) 4K aligned total Mcast entries
<i>mcst</i>	(Optional) 4K aligned total Mcast entries
<i>lpm_warp</i>	(Optional) 4K aligned total IPv4 entries
<i>mcst_warp</i>	(Optional) 4K aligned total Mcast entries
host-entry	(Optional) 4K aligned total Host entries
<i>host</i>	(Optional) 4K aligned total Host entries
l2-entry	(Optional) 4K aligned total L2 entries
<i>l2</i>	(Optional) 4K aligned total L2 entries

Command Mode

- /exec/configure

hardware profile front portmode

hardware profile front portmode <port-mode> | no hardware profile front portmode

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
front	port 1 QSFP/SFP+ settings
portmode	QSFP or SFP+
<i>port-mode</i>	Configure QSFP/sfp+ port mode

Command Mode

- /exec/configure

hardware profile gpe-5-timer enable

[no] hardware profile gpe-5-timer enable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
gpe-5-timer	gpe-5-timer setting
enable	Enable periodic GPE-5 Disable/enable timer

Command Mode

- /exec/configure

hardware profile ipv6 alpm carve-value

[no] hardware profile ipv6 alpm carve-value <ipv6_alpm_carve_value>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
ipv6	ipv6
alpm	alpm mode
carve-value	carve value
<i>ipv6_alpm_carve_value</i>	maximum entries

Command Mode

- /exec/configure

hardware profile ipv6 lpm-entries maximum

[no] hardware profile ipv6 lpm-entries maximum <ipv6_lpm_max_entry>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
ipv6	ipv6
lpm-entries	lpm(non-host) entries
maximum	maximum limit
<i>ipv6_lpm_max_entry</i>	maximum entries

Command Mode

- /exec/configure

hardware profile latency monitor

hardware profile latency monitor [threshold-avg <threshold-avg>] [threshold-max <threshold-max>] [sampling <sampling>] | no hardware profile latency monitor

Syntax Description

no	Negate a command or set its defaults
hardware	Configure hardware profile latency monitor settings
profile	profile latency monitor settings
latency	latency
monitor	latency monitor
threshold-avg	(Optional) average latency threshold in nano-seconds
<i>threshold-avg</i>	(Optional) average latency threshold in nano-seconds
threshold-max	(Optional) maximum latency threshold in nano-seconds
<i>threshold-max</i>	(Optional) maximum latency threshold in nano-seconds
sampling	(Optional) sampling interval in seconds
<i>sampling</i>	(Optional) sampling interval in seconds

Command Mode

- /exec/configure

hardware profile mdb module

[no] hardware profile { mdb-balanced | mdb-balanced-exem } module <module>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Set hardware profile
profile	Profile settings
mdb-balanced	Set the hardware mdb profile for module to balanced
mdb-balanced-exem	Set the hardware mdb profile for module to balanced-exem
module	Enter module number
<i>module</i>	

Command Mode

- /exec/configure

hardware profile module

[no] hardware profile { vxlan | mpls | mvpn-stats | acl-stats | acl-eg-ext } module { all | <module> }

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Set hardware profile
profile	Profile settings
vxlan	Set the hardware profile for module to vxlan
mpls	Set the hardware profile for module to mpls
mvpn-stats	Set the hardware profile for module for MVPN statistics
acl-stats	Set the hardware profile for module to acl
acl-eg-ext	Set the hardware profile for module to acl-eg-ext
module	Enter module number
all	All modules
<i>module</i>	

Command Mode

- /exec/configure

hardware profile mpls adjacency-stats bytes

[no] hardware profile mpls adjacency-stats bytes

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
profile	Profile
mpls	MPLS Statistics Mode
adjacency-stats	adjacency-stats
bytes	Bytes Only

Command Mode

- /exec/configure

hardware profile mpls extended-ecmp

[no] hardware profile mpls extended-ecmp

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
profile	Profile
mpls	MPLS routing ECMP mode
extended-ecmp	extended-ecmp mode

Command Mode

- /exec/configure

hardware profile multicast flex-stats-enable

[no] hardware profile multicast flex-stats-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
flex-stats-enable	Enable real time stats

Command Mode

- /exec/configure

hardware profile multicast max-limit

{ hardware profile multicast max-limit <mcast-ent> } | { no hardware profile multicast max-limit }

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
max-limit	maximum limit for multicast entries
<i>mcast-ent</i>	Mcast Table Entries

Command Mode

- /exec/configure

hardware profile multicast max-limit lpm-entries

[no] hardware profile multicast max-limit lpm-entries <ipv4_mcast_lpm_max_entry>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
max-limit	maximum limit for multicast entries
lpm-entries	lpm(non-host) entries
<i>ipv4_mcast_lpm_max_entry</i>	maximum entries

Command Mode

- /exec/configure

hardware profile multicast nlb

[no] hardware profile multicast nlb

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
nlb	network load balancing for multicast entries

Command Mode

- /exec/configure

hardware profile multicast nlb Port-Channel

[no] hardware profile multicast nlb Port-Channel

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
nlb	network load balancing for multicast entries
Port-Channel	Multicast NLB on a stick port-channel configuration

Command Mode

- /exec/configure

hardware profile multicast optimization disable

[no] hardware profile multicast optimization disable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Set hardware profile
profile	Profile settings
multicast	set multicast profile
optimization	set multicast optimization profile
disable	set the multicast optimization disable profile

Command Mode

- /exec/configure

hardware profile multicast rpf-check-optimization

```
{ hardware profile multicast rpf-check-optimization } | { no hardware profile multicast rpf-check-optimization }  
}
```

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
rpf-check-optimization	RPF Check optimization on Monticello ASIC

Command Mode

- /exec/configure

hardware profile multicast service-reflect port

```
{ hardware profile multicast service-reflect port <port-num> } | { no hardware profile multicast service-reflect }  
}
```

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
service-reflect	service-reflect settings
port	loopback port
<i>port-num</i>	loopback port-num

Command Mode

- /exec/configure

hardware profile multicast slow-receiver port

hardware profile multicast slow-receiver port <port> | no hardware profile multicast slow-receiver port <port>

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	Profile
multicast	Multicast settings
slow-receiver	Multicast slow receiver
port	Port
<i>port</i>	Port number

Command Mode

- /exec/configure

hardware profile multicast stats-disable

[no] hardware profile multicast stats-disable

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
stats-disable	Disable multicast stats

Command Mode

- /exec/configure

hardware profile multicast syslog-threshold

[no] hardware profile multicast syslog-threshold <percentage>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
syslog-threshold	MROUTE table syslog threshold
<i>percentage</i>	Percentage (Default is 90)

Command Mode

- /exec/configure

hardware profile packet-drop

[no] hardware profile packet-drop

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
packet-drop	Configure Packet Drop parameters

Command Mode

- /exec/configure

hardware profile pbr ecmp paths

[no] hardware profile pbr ecmp paths <maxpath>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
pbr	Policy based routing
ecmp	Equal cost multi path
paths	ecmp path
<i>maxpath</i>	Maximum ecmp paths

Command Mode

- /exec/configure

hardware profile pbr next-hop fast-convergence

[no] hardware profile pbr next-hop fast-convergence

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
pbr	Policy-based Routing feature settings
next-hop	PBR next-hop
fast-convergence	Enable/Disable PBR fast convergence

Command Mode

- /exec/configure

hardware profile pbr skip-selfip

[no] hardware profile pbr skip-selfip

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
pbr	PBR feature settings
skip-selfip	Configure Skipping PBR for self-ip packets

Command Mode

- /exec/configure

hardware profile pfc mmu buffer-reservation

[no] hardware profile pfc mmu buffer-reservation <percentage>

Syntax Description

no	(Optional) Negate the command
hardware	Hardware Internal Information
profile	profile settings
pfc	System level priority-flow-control settings
mmu	Hardware memory management unit configuration
buffer-reservation	Shared pool buffer reservation
<i>percentage</i>	Percentage of shared pool buffers to be reserved

Command Mode

- /exec/configure

hardware profile portmode

{ hardware profile portmode <port-mode> [2-tuple] } | no hardware profile portmode

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
portmode	QSFP port mode setting
<i>port-mode</i>	Configure QSFP port mode
2-tuple	(Optional) Display QSFP portnames in 2-tuple mode even in 10G mode

Command Mode

- /exec/configure

hardware profile racl priority toggle

[no] hardware profile racl priority toggle

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
racl	RACL settings
priority	Configure team parameters
toggle	High Priority for RACL than NAT and VACL

Command Mode

- /exec/configure

hardware profile statistics pstat

[no] hardware profile statistics pstat [peak]

Syntax Description

no	(Optional) Negate the command
hardware	Configure hardware profile setting
profile	profile settings
statistics	hardware stats
pstat	Enable Pstat default is instantaneous
peak	(Optional) Peak stats

Command Mode

- /exec/configure

hardware profile sub-interface flex-stats l3

hardware profile sub-interface flex-stats { l3 | l2 } | no hardware profile sub-interface flex-stats

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
sub-interface	For sub-interface settings
flex-stats	Enable real time stats
l3	Enable L3 SI Stats
l2	Enable L2 SI Stats

Command Mode

- /exec/configure

hardware profile svi-and-si flex-stats-enable

[no] hardware profile svi-and-si flex-stats-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
svi-and-si	For svi-and-si settings
flex-stats-enable	Enable real time stats

Command Mode

- /exec/configure

hardware profile svi flex-stats-enable

[no] hardware profile svi flex-stats-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
svi	For SVI settings (in unicast SVI, in UMF VLAN, in/out UMF VXLAN)
flex-stats-enable	Enable real time stats

Command Mode

- /exec/configure

hardware profile tcam ipv6-sup-tcam match-inner

```
{ hardware profile tcam ipv6-sup-tcam match-inner } | { no hardware profile tcam ipv6-sup-tcam match-inner }  
}
```

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
ipv6-sup-tcam	IPv6 SUP TCAM parameters
match-inner	match inner payload for tunnel packets

Command Mode

- /exec/configure

hardware profile tcam mcast racl-bridge

{ hardware profile tcam mcast racl-bridge } | { no hardware profile tcam mcast racl-bridge }

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
mcast	multicast address access
racl-bridge	apply permit/drop for mcast bridged pkt

Command Mode

- /exec/configure

hardware profile tcam region

```
[no] hardware profile tcam region { <tcam_compat_type> <tcam_compat_size> | ifacl <tcam_compat_size>
[ double-wide ] | nat <tcam_compat_size> | ifacl-wide <ifacl_wide_tcam_size> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
profile	profile
tcam	Configure tcam parameters
region	Configure tcam region
ifacl	IPV4 PACL size
double-wide	(Optional) Configure tcam as double wide
nat	NAT size
ifacl-wide	IFACL WIDE Size
<i>tcam_compat_type</i>	
<i>tcam_compat_size</i>	Enter tcam size
<i>ifacl_wide_tcam_size</i>	Enter tcam size

Command Mode

- /exec/configure

hardware profile tcam region span qualify udf

[no] hardware profile tcam region span qualify udf { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
region	Configure tcam region
span	Configure for span region
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware profile tcam region spanv6-l2 qualify udf

[no] hardware profile tcam region spanv6-l2 qualify udf { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
region	Configure tcam region
spanv6-l2	Configure for span region
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware profile tcam region spanv6 qualify udf

[no] hardware profile tcam region spanv6 qualify udf { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
region	Configure tcam region
spanv6	Configure for span region
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware profile tcam resource service-template

[no] hardware profile tcam resource service-template { <name> } [module { <lc> | <fm> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
resource	Configure tcam hardware resources
service-template	Commit template
<i>name</i>	Select name of template
module	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>lc</i>	(Optional) line card number
<i>fm</i>	(Optional) fabric module number

Command Mode

- /exec/configure handle auto 424

hardware profile tcam resource template

```
[no] hardware profile tcam resource template { <name> { ref-template <temp-nontahoe> | ref-template-tahoe
<temp-tahoe> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
resource	Configure tcam hardware resources
template	Configure template based tcam carving parameters
ref-template	Select a default template as reference
<i>temp-nontahoe</i>	
ref-template-tahoe	Select a default template as reference
<i>temp-tahoe</i>	
<i>name</i>	Create/Select name of custom template

Command Mode

- /exec/configure

hardware profile ucast6 lpm-65-to-127-max-limit

```
{ hardware profile ucast6 lpm-65-to-127-max-limit <unicast-ent> } | { no hardware profile ucast6 lpm-65-to-127-max-limit }
```

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
ucast6	unicast ipv6 settings
lpm-65-to-127-max-limit	maximum limit for unicast ipv6 lpm-65-to-127 entries, default is 256
<i>unicast-ent</i>	Unicast ipv6 lpm-65-to-127 Table Entries

Command Mode

- /exec/configure

hardware profile ucast6 max-limit

{ hardware profile ucast6 max-limit <unicast-ent> } | { no hardware profile ucast6 max-limit }

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
ucast6	unicast ipv6 settings
max-limit	maximum limit for unicast ipv6 entries
<i>unicast-ent</i>	Unicast ipv6 Table Entries

Command Mode

- /exec/configure

hardware profile unicast enable-host-ecmp

[no] hardware profile unicast enable-host-ecmp [arp-nd | [ipv4 [arp]] | [ipv6 [nd]]]

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
unicast	Unicast settings
enable-host-ecmp	Enable ECMP support for /32 (IPv4) and /128 (IPv6) routes
ipv4	(Optional) Enable ECMP support for /32 (IPv4 Only) Routes
ipv6	(Optional) Enable ECMP support for /128 (IPv6 Only) Routes
arp-nd	(Optional) Retain ARP (IPv4) and ND (IPv6) Routes in Host-Table
arp	(Optional) Retain ARP Entries in Host-Table
nd	(Optional) Retain ND Entries in Host-Table

Command Mode

- /exec/configure

hardware profile unicast syslog-threshold

```
{ hardware profile unicast syslog-threshold <percentage> } | { no hardware profile unicast syslog-threshold }  
}
```

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
unicast	Unicast settings
syslog-threshold	Unicast Route table syslog threshold
<i>percentage</i>	Percentage

Command Mode

- /exec/configure

hardware qos dynamic-buffer-sharing

[no] hardware qos dynamic-buffer-sharing

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
qos	Configure qos related configuration
dynamic-buffer-sharing	Enable dynamic buffer sharing

Command Mode

- /exec/configure

hardware qos fc rate-shaper

[no] hardware qos fc rate-shaper [low]

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
qos	Configure qos related configuration
fc	Fibre Channel interface related configuration
rate-shaper	Rate Shaper for FC interface
low	(Optional) Configure FC interface low rate shaper

Command Mode

- /exec/configure

hardware qos pfc mc-drop

[no] hardware qos pfc mc-drop

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
qos	Configure qos related configuration
pfc	Priority-flow-control specific configuration
mc-drop	Multicast packets are dropped in lossless queue

Command Mode

- /exec/configure

hardware sample-redirect module redirect-interface

hardware sample-redirect module <num> redirect-interface <interface>

Syntax Description

hardware	Change hardware usage settings
sample-redirect	Redirect netflow sampled data
module	Line card module
<i>num</i>	slot number
redirect-interface	Interface for redirecting the traffic
<i>interface</i>	Interface Name

Command Mode

- /exec

hardware switch-id

[no] hardware switch-id <id-val>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Configuration commands
switch-id	Switch-ID Configuration
<i>id-val</i>	Switch=ID value

Command Mode

- /exec/configure

hash-mode gtp

hash-mode { gtp-inner-v4 | gtp-inner-v6 } | no hash-mode { gtp-inner-v4 | gtp-inner-v6 }

Syntax Description

no	Negate a command or set its defaults
hash-mode	hash-mode
gtp-inner-v4	gtp-inner-v4
gtp-inner-v6	gtp-inner-v6

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

head

| head [-n <lines>]

Syntax Description

	Pipe command output to filter
head	Display first lines
-n	(Optional) modify number of lines (default 10)
<i>lines</i>	(Optional) number of lines to print

Command Mode

- /output

header-type 2

[no] header-type { 2 | 3 [rfc-compliant] }

Syntax Description

no	(Optional) Negate a command or set its defaults
header-type	Set ERSPAN Source version
2	ERSPAN Source Version 2
3	ERSPAN Source Version 3
rfc-compliant	(Optional) ERSPAN V3 header rfc-compliant

Command Mode

- /exec/configure/config-monitor-erspan-src

hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

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

hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

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

hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

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

history

```
{ no | default } history { { distributions-of-statistics-kept } | { enhanced [ interval [ <interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { hours-of-statistics-kept } | { statistics-distribution-interval } }
```

Syntax Description

no	
<i>interval</i>	(Optional) buckets
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
default	Set a command to its defaults
history	History and Distribution Data
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
hours-of-statistics-kept	Maximum number of statistics hour groups to capture

Command Mode

- /exec/configure/ip-sla/jitter

history

```
{ no | default } history { { buckets-kept } | { distributions-of-statistics-kept } | { enhanced [ interval [
<interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { filter } | { hours-of-statistics-kept } | { lives-kept }
| { statistics-distribution-interval } }
```

Syntax Description

no	
<i>interval</i>	(Optional) buckets
default	Set a command to its defaults
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
filter	Add operation to History when...
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

history

```
history { { buckets-kept <num-buckets-kept> } | { distributions-of-statistics-kept <num-dist-stats> } | {
enhanced interval <interval-seconds> buckets <num-buckets> } | { filter { all | failures | none | overThreshold
} } | { hours-of-statistics-kept <num-hours-of-stats> } | { lives-kept <life-size-value> } | {
statistics-distribution-interval <dist-interval> } }
```

Syntax Description

<i>interval</i>	buckets
<i>interval-seconds</i>	<num-buckets>
<i>life-size-value</i>	<dist-interval>
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
enhanced	Enable enhanced history collection
buckets	Number of buckets to collect data
<i>num-buckets</i>	Number of buckets
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
<i>num-hours-of-stats</i>	Hour groups size value (default 2)
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size
<i>dist-interval</i>	Distribution interval value in msec (default 20ms), Value in usec if precision microsecond is enabled

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

history

```
{ no | default } history { { buckets-kept } | { distributions-of-statistics-kept } | { filter } | {
hours-of-statistics-kept } | { lives-kept } | { statistics-distribution-interval } }
```

Syntax Description

no	
default	Set a command to its defaults
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
filter	Add operation to History when...
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size

Command Mode

- /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho /exec/configure/ip-sla/http

history

```
history { { buckets-kept <num-buckets-kept> } | { distributions-of-statistics-kept <num-dist-stats> } | { filter
{ all | failures | none | overThreshold } } | { hours-of-statistics-kept <num-hours-of-stats> } | { lives-kept
<life-size-value> } | { statistics-distribution-interval <dist-interval> } }
```

Syntax Description

<i>dist-interval</i>	<num-buckets-kept>
<i>num-hours-of-stats</i>	<life-size-value>
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
<i>life-size-value</i>	Life size value (default 0)

Command Mode

- /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho /exec/configure/ip-sla/http

history

```
history { { distributions-of-statistics-kept <num-dist-stats> } | { enhanced interval <interval-seconds> buckets
<num-buckets> } | { hours-of-statistics-kept <num-hours-of-stats> } | { statistics-distribution-interval
<dist-interval> } }
```

Syntax Description

<i>interval</i>	buckets
<i>num-buckets</i>	<num-hours-of-stats>
<i>enhanced</i>	hours-of-statistics-kept
history	History and Distribution Data
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
<i>interval-seconds</i>	Interval in seconds
buckets	Number of buckets to collect data
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
<i>num-hours-of-stats</i>	Hour groups size value (default 2)
statistics-distribution-interval	Statistics distribution interval size
<i>dist-interval</i>	Distribution interval value in msec (default 20ms), Value in usec if precision microsecond is enabled

Command Mode

- /exec/configure/ip-sla/jitter

hold-down threshold count

[no] hold-down threshold count <count> [time <time>]

Syntax Description

no	(Optional) Negate a command or set its defaults
hold-down	Hold ITD nodes down after threshold is hit
threshold	Threshold specification
count	Failure count to be hit for threshold to be met
<i>count</i>	Threshold failure count
time	(Optional) Time interval in which threshold is to be met
<i>time</i>	(Optional) Threshold time interval in seconds

Command Mode

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

hold-down threshold count

[no] hold-down threshold count <count> [time <time>]

Syntax Description

no	(Optional) Negate a command or set its defaults
hold-down	Hold EPBR endpoints down after threshold is hit
threshold	Threshold specification
count	Failure count to be hit for threshold to be met
<i>count</i>	Threshold failure count(0 to disable, minimum 3 to enable)
time	(Optional) Time interval in which threshold is to be met
<i>time</i>	(Optional) Threshold time interval in seconds(0 to disable, minimum 60 to enable)

Command Mode

- /exec/configure/epbr/svc /exec/configure/epbr/fwd-svc /exec/configure/epbr-sess/svc /exec/configure/epbr-sess/fwd-svc

holdtime

holdtime { infinite | <secs> } | no holdtime

Syntax Description

no	Negate a command or set its defaults
holdtime	LDP session holdtime
infinite	Ignore LDP session holdtime
<i>secs</i>	Holdtime in seconds

Command Mode

- /exec/configure/ldp

hop-limit maximum

[no] hop-limit maximum <limit>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>limit</i>	Maximum hop count value allowed

Command Mode

- /exec/configure/config-ra-guard

hop-limit minimum

[no] hop-limit minimum <limit>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>limit</i>	Minimum hop count value allowed

Command Mode

- /exec/configure/config-ra-guard

hop

{ hop <val> } | { no hop }

Syntax Description

no	Negate a command or set its defaults
hop	Configure ngoam hop count
<i>val</i>	Configure ngoam service hop count value

Command Mode

- /exec/configure/configngoamprofile

host-reachability protocol

[no] host-reachability protocol { bgp | openflow | openflow-ir }

Syntax Description

no	(Optional) Negate a command or set its defaults
host-reachability	Configure host reachability advertisement
protocol	Control protocol to use
bgp	Border Gateway Protocol
openflow	OpenFlow
openflow-ir	OpenFlow-IR

Command Mode

- /exec/configure/if-nve

host-reachability protocol controller

[no] host-reachability protocol controller <controller-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
host-reachability	Configure host reachability advertisement
protocol	Control protocol to use
controller	Controller
<i>controller-id</i>	Controller id value

Command Mode

- /exec/configure/if-nve

host

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

Syntax Description

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

Command Mode

- /exec/configure/objgroup

host group permit

```
{ <seq> host <hostip> group <range> { permit | deny } } | { no <seq> [ host <hostip> group <range> { permit | deny } ] }
```

Syntax Description

no	Negate a command or set its defaults
<i>seq</i>	Sequence Number
host	Host IP Address
<i>hostip</i>	Host IP Address
group	Configure explicit group ranges
<i>range</i>	Group Prefix
permit	Admission Permitted
deny	Admission Denied

Command Mode

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

host group permit

```
{ <seq> host <hostip> group <range> { permit | deny } } | { no <seq> [ host <hostip> group <range> { permit | deny } ] }
```

Syntax Description

no	Negate a command or set its defaults
<i>seq</i>	Sequence Number
host	Host IP Address
<i>hostip</i>	Host IP Address
group	Configure explicit group ranges
<i>range</i>	Group Prefix
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-host-policy/sender

host port

[no] host <name-or-ip> port <portnum> [protocol <proto> encoding <encoder>]

Syntax Description

no	(Optional) Negate a command or set its defaults
host	Specify destination host
port	Set destination port
protocol	(Optional) Set transport protocol
encoding	(Optional) Set encoding format
<i>name-or-ip</i>	IPv4 or IPv6 address or DNS name of destination
<i>portnum</i>	Destination port
<i>proto</i>	(Optional)
<i>encoder</i>	(Optional) Set encoding type for this destination

Command Mode

- /exec/configure/telemetry/destination-group

host source group permit

```
{ <seq> host <hostip> source <sourceip> group <range> { permit | deny } } | { no <seq> [ host <hostip>  
source <sourceip> group <range> { permit | deny } ] }
```

Syntax Description

no	Negate a command or set its defaults
<i>seq</i>	Sequence Number
host	Host IP Address
<i>hostip</i>	Host IP Address value
source	Source IP Address
<i>sourceip</i>	Source IP Address value
group	Configure explicit group ranges
<i>range</i>	Group Prefix
permit	Admission Permitted
deny	Admission Denied

Command Mode

- /exec/configure/nbm-host-policy/receiver

host source group permit

```
{ <seq> host <hostip> source <sourceip> group <range> { permit | deny } } | { no <seq> [ host <hostip>
source <sourceip> group <range> { permit | deny } ] }
```

Syntax Description

no	Negate a command or set its defaults
<i>seq</i>	Sequence Number
host	Host IP Address
<i>hostip</i>	Host IP Address value
source	Source IP Address
<i>sourceip</i>	Source IP Address value
group	Configure explicit group ranges
<i>range</i>	Group Prefix
permit	Admission Permitted
deny	Admission Denied

Command Mode

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

hostname

{ hostname | switchname } <name> | no { hostname | switchname }

Syntax Description

no	Negate a command or set its defaults
hostname	Configure system's host name
switchname	Configure system's host name
<i>name</i>	Enter switchname

Command Mode

- /exec/configure

hostname dynamic

[no] hostname dynamic

Syntax Description

no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

hostname dynamic

[no] hostname dynamic

Syntax Description

no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

Command Mode

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

hostname dynamic

[no] hostname dynamic

Syntax Description

no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

hsrp

[no] hsrp <group-id> [ipv4]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number (0-255 for HSRPv1)
ipv4	(Optional) Configure IP Version 4 group

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp anycast

[no] hsrp anycast <id> { ipv4 | ipv6 | both }

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP configuration commands
anycast	Anycast related commands
<i>id</i>	Bundle number
ipv4	Associate IP Version 4 for the bundle
ipv6	Associate IP Version 6 for the bundle
both	Associate IP Version 4 and 6 for the bundle

Command Mode

- /exec/configure

hsrp bfd

[no] hsrp bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
bfd	BFD protocol

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp bfd all-interfaces

[no] hsrp bfd all-interfaces

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
bfd	BFD protocol
all-interfaces	On all interfaces

Command Mode

- /exec/configure

hsrp delay minimum

hsrp delay { minimum <min-delay> | reload <reload-delay> } + | no hsrp delay [minimum [<min-delay>] | reload [<reload-delay>]] +

Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
delay	HSRP initialisation delay
minimum	Minimum delay
reload	Delay after reload
<i>min-delay</i>	<0-10000> Delay in seconds
<i>reload-delay</i>	<0-10000> Delay in seconds

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp force state vlan

```
hsrp force state vlan { <vlans> | all }
```

Syntax Description

hsrp	Hot Standby Router Protocol (HSRP) information
force	Move the HSRP state
state	HSRP state
vlan	HSRP state changes for these vlans
all	Include all HSRP configured VLANs
<i>vlans</i>	VLAN IDs of the VLAN for which state change will affect

Command Mode

- /exec

hsrp ipv6

[no] hsrp <group-id> ipv6

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number
ipv6	Configure IP Version 6 group

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp mac-refresh

hsrp mac-refresh [<time>] | no hsrp mac-refresh

Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
mac-refresh	Interface mac-refresh time
<i>time</i>	(Optional) Timeout value (0-10000) in sec

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp timers extended-hold

[no] hsrp timers extended-hold [<extended-hold>]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
timers	Global Timers
extended-hold	Extended Hold
<i>extended-hold</i>	(Optional) Time in seconds

Command Mode

- /exec/configure

hsrp use-bia

[no] hsrp use-bia [scope interface]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
use-bia	HSRP uses interface's burned in address
scope	(Optional) Specify the scope of use-bia
interface	(Optional) Use-bia applies to all groups on this interface or sub-interface

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp version 1

hsrp version { 1 | 2 } | no hsrp version

Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
version	HSRP version
1	Version 1
2	Version 2

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

http get

```
[no] http { get } <WORD> { [ cache { disable | enable } ] [ proxy <proxy-info> ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] [ version <http-version> ] } +
```

Syntax Description

<i>proxy</i>	(Optional) <proxy-info>
<i>source-ip</i>	(Optional) <source-ip-hostname>
<i>source-port</i>	(Optional) <src-port>
<i>version</i>	(Optional) <http-version>
<i>cache</i>	(Optional) enable
no	(Optional)
http	HTTP Operation
get	HTTP get operation
<i>WORD</i>	URL
enable	(Optional) enable download of cached entries (default)
disable	(Optional) disable download of cached entries (default)
<i>proxy-info</i>	(Optional) proxy information string
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed
<i>src-port</i>	(Optional) Port Number (Recommended port range between 1025-65534)
<i>http-version</i>	(Optional) Supported HTTP versions are '1.0' and '1.1'.

Command Mode

- /exec/configure/ip-sla

http proxy server

[no] http proxy server <hostipname> [port <port-num>]

Syntax Description

no	(Optional) Negate a command or set its defaults
http	Configure http related parameters
proxy	Http Proxy related parameters
server	Server address
<i>hostipname</i>	IPV4/IPV6 address or DNS name of proxy server
port	(Optional) Http proxy server port
<i>port-num</i>	(Optional) port number

Command Mode

- /exec/configure/trustpool

human

| human

Syntax Description

	Pipe command output to filter
human	output in human format

Command Mode

- /output

human

| human

Syntax Description

	Pipe command output to filter
human	output in human format

Command Mode

- /output

hw-module logging onboard

[no] hw-module logging onboard [{ counter-stats | module <module> [{ counter-stats }] }]

Syntax Description

no	(Optional) Negate a command or set its defaults
hw-module	Enable/Disable OBFL information
logging	Enable/Disable OBFL information
onboard	Enable/Disable OBFL information
counter-stats	(Optional) Enable/Disable OBFL counter statistics
module	(Optional) Enable/Disable OBFL information for Module
<i>module</i>	(Optional) Enter module number

Command Mode

- /exec/configure

hw-module logging onboard

```
[no] hw-module logging onboard [ { environmental-history | error-stats | interrupt-stats | module <module>
[ { environmental-history | error-stats | interrupt-stats | obfl-logs | cpuhog } ] | obfl-logs | cpuhog } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hw-module	Enable/Disable OBFL information
logging	Enable/Disable OBFL information
onboard	Enable/Disable OBFL information
environmental-history	(Optional) Enable/Disable OBFL environmental history
error-stats	(Optional) Enable/Disable OBFL error statistics
interrupt-stats	(Optional) Enable/Disable OBFL interrupt statistics
cpuhog	(Optional) Enable/Disable OBFL cpu hog events
module	(Optional) Enable/Disable OBFL information for Module
<i>module</i>	(Optional) Enter module number
obfl-logs	(Optional) Enable/Disable OBFL (boot-uptime/device-version/obfl-history)

Command Mode

- /exec/configure

