



## H Commands

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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
hap-change	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
sw-change	Set hap policy

Command Mode

- /exec/configure/vdc

# hardware-telemetry fte

[no] hardware-telemetry fte

Syntax Description

hardware-telemetry	Hardware telemetry configuration
fte	Enable/Disable Flow Table Events 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 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 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
threshold	value of threshold

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
value	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
poly-type	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-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
fan_zone_id	please enter fan zone id whose speed needs to be increased
raise-speed	Speed to be added for current fan zone speed
speed-to-raise	please enter additional fan speed

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
count	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
timeout-in-sec	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
count	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
timeout-in-sec	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 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
module	(Optional) Slot/module number
timer	Polling timer
msec	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
module	(Optional) Slot/module number
threshold	threshold value
value	percentage of maximum usage

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
percentage	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 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+
port-mode	Configure QSFP/sfp+ port mode

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
ipv6_alpm_carve_value	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
ipv6_lpm_max_entry	maximum entries

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 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
mcast-ent	Mcast Table Entries

### 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 prefer-source-tree

[no] hardware profile multicast prefer-source-tree [ eternity [ limit <max-limit> ] ]

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
prefer-source-tree	prefer the source tree
eternity	(Optional) prefer source tree for eternity and not for just 2 minutes
limit	(Optional) Configure a limit for the number of hardware entries used
max-limit	(Optional) Number of (S,G) for which source tree is preferred

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
port-num	loopback port-num

### 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
percentage	Percentage (Default is 90)

Command Mode

- /exec/configure

## hardware profile openflow

```
[no] hardware profile { openflow [ agent default { drop | normal } ] | { tap-aggregation [ l2drop ] } }
```

Syntax Description

no	(Optional) Negate the command
hardware	Hardware Internal Information
profile	Profile
openflow	Openflow
tap-aggregation	Tap Aggregation
l2drop	(Optional) Drop non IP traffic ingress on mode tap interfaces
agent	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
default	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
drop	(Optional) Drop all frames that miss MAC
normal	(Optional) [default]Flood unknown traffic

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
maxpath	Maximum ecmp paths

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
percentage	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
port-mode	Configure QSFP port mode
2-tuple	(Optional) Display QSFP portnames in 2-tuple mode even in 10G mode

## 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 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 region

```
[no] hardware profile tcam region { <tcam_compat_type> <tcam_compat_size> | ifacl <tcam_compat_size>
[ double-wide ] | nat <tcam_compat_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
tcam_compat_type	
tcam_compat_size	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
udf_name	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
udf_name	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
udf_name	UDF name

Command Mode

- /exec/configure



## hardware profile tcam syslog-threshold

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

### Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
syslog-threshold	TCAMs syslog threshold
percentage	Percentage

### 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
unicast-ent	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
unicast-ent	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
percentage	Percentage

### 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
num	slot number
redirect-interface	Interface for redirecting the traffic
interface	Interface Name

Command Mode

- /exec



# head

| head [ -n <lines> ]

Syntax Description

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

Command Mode

- /output

# hello-interval

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

## Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
interval	(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
interval	(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
interval	(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	
interval	(Optional) buckets
distributions-of-statistics-kept	hours-of-statistics-kept
statistics-distribution-interval	
default	Set a command to its defaults
history	History and Distribution Data
enhanced	Enable enhanced history collection
interval-seconds	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
num-buckets	(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	
interval	(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
interval-seconds	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
num-buckets	(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

interval	(Optional) buckets
interval-seconds	(Optional) <num-buckets>
life-size-value	<dist-interval>
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
num-buckets-kept	Bucket size value (default 15)
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
num-dist-stats	Distribution bucket size value (default 1)
enhanced	Enable enhanced history collection
buckets	(Optional) Number of buckets to collect data
num-buckets	(Optional) 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
num-hours-of-stats	Hour groups size value (default 2)
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size
dist-interval	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

dist-interval	<num-buckets-kept>
num-hours-of-stats	<life-size-value>
distributions-of-statistics-kept	hours-of-statistics-kept
statistics-distribution-interval	
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
num-buckets-kept	Bucket size value (default 15)
num-dist-stats	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
life-size-value	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

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

## Command Mode

- /exec/configure/ip-sla/jitter

# 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
secs	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
limit	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
limit	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
val	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

[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
hostaddr	A.B.C.D Host address
addr	A.B.C.D Network address of object-group member
mask	A.B.C.D wildcard
prefix	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
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address
group	Configure explicit group ranges
range	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
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

### Command Mode

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

# 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
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address value
source	Source IP Address
sourceip	Source IP Address value
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

## Command Mode

- /exec/configure/nbm-vrf/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
seq	Sequence Number
host	Host IP Address
hostip	Host IP Address value
source	Source IP Address
sourceip	Source IP Address value
group	Configure explicit group ranges
range	Group Prefix
permit	Admission Permitted
deny	Admission Denied

### Command Mode

- /exec/configure/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
name	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
group-id	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
id	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 delay minimum

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

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
min-delay	<0-10000> Delay in seconds
reload-delay	<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
vlans	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
group-id	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
time	(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
extended-hold	(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

no	(Optional)
cache	(Optional) enable
proxy	(Optional) <proxy-info>
source-ip	(Optional) <source-ip-hostname>
source-port	(Optional) <src-port>
version	(Optional) <http-version>
http	HTTP Operation
get	HTTP get operation
WORD	URL
enable	(Optional) enable download of cached entries (default)
disable	(Optional) disable download of cached entries (default)
proxy-info	(Optional) proxy information string
source-ip-hostname	(Optional) source IP hostname, broadcast disallowed
source-ip-address	(Optional) source IP address, broadcast disallowed
src-port	(Optional) Port Number (Recommended port range between 1025-65534)
http-version	(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
hostipname	IPV4/IPV6 address or DNS name of proxy server
port	(Optional) Http proxy server port
port-num	(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 [ { 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
module	(Optional) Enter module number
obfl-logs	(Optional) Enable/Disable OBFL (boot-uptime/device-version/obfl-history)

### Command Mode

- /exec/configure

## 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
module	(Optional) Enter module number

Command Mode

- /exec/configure