



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
<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

ha-stateful

[no] ha-stateful

Syntax Description

no	(Optional) Negate a command or set its defaults
ha-stateful	Enable stateful OSPF HA

Command Mode

- /exec/configure/router-ospf

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 module

[no] hardware access-list { resource-pooling | resource pooling } module <module-number>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Show hardware information
access-list	Access Control List
resource-pooling	Enable ACL programming across TCAM banks
resource	hardware resource
pooling	Enable ACL programming across TCAM banks
module	module number
<i>module-number</i>	specify module number

Command Mode

- /exec/configure

hardware access-list tcam region

[no] hardware access-list tcam region <type> <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
<i>type</i>	Region type
<i>tcam_size</i>	Enter tcam size

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 double-wide

[no] hardware access-list tcam region <arp-ether> <arpether_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>arp-ether</i>	Region type
<i>arpether_tcam_size</i>	Enter tcam size
double-wide	Double Width

Command Mode

- /exec/configure

hardware access-list tcam region qualify udf

[no] hardware access-list tcam region <udf_tcam_type> qualify { udf | v6udf } { <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 span region
udf	Configure UDF names
v6udf	Configure IPv6 UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware ecmp hash-offset

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

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 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 forwarding funcstats clear

hardware forwarding funcstats clear

Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
clear	Clear funcstats information

Command Mode

- /exec

hardware forwarding funcstats disable

hardware forwarding funcstats disable

Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
disable	Disable funcstats recording and output

Command Mode

- /exec

hardware forwarding funcstats enable

hardware forwarding funcstats enable

Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
enable	Enable funcstats recording and output

Command Mode

- /exec

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 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	System 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	System 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 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 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 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 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 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
<i>max-limit</i>	(Optional) Number of (S,G) for which source tree is preferred

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 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	(Optional) Act as Openflow Agent
default	(Optional) Specify default action for frames which don't match any flow
drop	(Optional) Drop all frames that miss MAC
normal	(Optional) [default]Flood unknown traffic

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 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 ] }
```

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
<i>tcam_compat_type</i>	
<i>tcam_compat_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	(Optional) Specify a module number
<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 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
<i>percentage</i>	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
<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 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

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 3

[no] header-type 3

Syntax Description

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

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-ospf/vrf/router-ospf-slink

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

hex

hex <expr>

Syntax Description

hex	calculator with results in decimal format
<i>expr</i>	the expression to compute (integer arithmetics)

Command Mode

- /exec

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>	(Optional) buckets
<i>interval-seconds</i>	(Optional) <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	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(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
<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 20)

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

```
{ 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

```
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>	(Optional) buckets
<i>num-buckets</i>	(Optional) <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>	(Optional) Interval in seconds
buckets	(Optional) 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 20)

Command Mode

- /exec/configure/ip-sla/jitter

history buffer

[no] history buffer [{ size [<onep-historysize> [purge <historypurge>]] } | { purge <historypurge> [size <onep-historysize>] } | { session [<appname-str>] }]

Syntax Description

no	(Optional) Negate a command or set its defaults
history	One Platform history trails
buffer	In memory buffering of API history trails
session	(Optional) Session history filter
<i>appname-str</i>	(Optional) Full or partial session name
size	(Optional) History buffer size in bytes
<i>onep-historysize</i>	(Optional) Bytes (default: 32768)
purge	(Optional) Purge the oldest or newest session history
<i>historypurge</i>	(Optional) Purge session history

Command Mode

- /exec/configure/onep

history syslog

[no] history syslog

Syntax Description

no	(Optional) Negate a command or set its defaults
history	One Platform history trails
syslog	Enable the API history trails to syslog

Command Mode

- /exec/configure/onep

hold adjacency

hold adjacency <all>

Syntax Description

hold	Hold
adjacency	Display adjacency table
all	Hold all adjcencies

Command Mode

- /exec

hold ip route

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

Syntax Description

hold	Hold
ip	IPv4
route	Hold routing information
rnh	Hold only RNH information
vrf	(Optional) VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
all	Hold all routes

Command Mode

- /exec

hold ipv6 route

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

Syntax Description

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

Command Mode

- /exec

hold timeout

hold timeout <timeout_val>

Syntax Description

hold	Hold timer
timeout	timer timeout
<i>timeout_val</i>	timeout duration in seconds

Command Mode

- /exec/configure/vpc-domain

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

{ 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	(Optional) Border Gateway Protocol
openflow	(Optional) OpenFlow
openflow-ir	(Optional) 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

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/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/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/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 | 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
<i>min-delay</i>	<0-10000> Delay in seconds
<i>reload-delay</i>	<0-10000> Delay in seconds
<i>minimum</i>	(Optional) reload

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>no</i>	(Optional)
<i>cache</i>	(Optional) enable
<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>
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

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