



## H Show Commands

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## show hardware

```
show hardware [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str> [
<sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <kick_cmpl_time> <kick_tmstmp> [ <isan_file_name>
][ <isan_cmpl_time> ] [ <isan_tmstmp> ] <chassis_id> [ <module_id> ] <cpu_name> <memory> <mem_type>
<proc_board_id> [ <host_name> ] <bootflash_size> [ <slot0_size> ] [ <slot1_size> ] <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> [ <rr_usec> ] [ <rr_ctime> ] <rr_reason> [
<rr_sys_ver> ] [ <rr_service> ] [ <manufacturer> ] { TABLE_slot [ TABLE_slot_info [ [ <num_slot_str> ]
[ <status_ok_empty> ] [ <type> [ <num_submods> ] ] <model_num> <hw_ver> <part_num> <part_revision>
<manuf_date> <serial_num> <CLEI_code> [ <num_slot_str> ] ] ] ] }
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
<i>__readonly__</i>	(Optional)
<i>header_str</i>	(Optional)
<i>bios_ver_str</i>	(Optional)
<i>loader_ver_str</i>	(Optional)
<i>kickstart_ver_str</i>	(Optional)
<i>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>kick_tmstmp</i>	(Optional)
<i>isan_file_name</i>	(Optional)
<i>isan_cmpl_time</i>	(Optional)
<i>isan_tmstmp</i>	(Optional)
<i>chassis_id</i>	(Optional)
<i>module_id</i>	(Optional)
<i>cpu_name</i>	(Optional)
<i>memory</i>	(Optional)
<i>mem_type</i>	(Optional)
<i>proc_board_id</i>	(Optional)

<i>bootflash_size</i>	(Optional)
<i>slot0_size</i>	(Optional)
<i>slot1_size</i>	(Optional)
<i>host_name</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)
<i>rr_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</i>	(Optional)
<i>manufacturer</i>	(Optional)
TABLE_slot	(Optional) Slot
<i>num_slot_str</i>	(Optional) Number of elements
TABLE_slot_info	(Optional) Slot Info
<i>status_ok_empty</i>	(Optional) Status (Present or Absent)
<i>type</i>	(Optional) Description of the element
<i>num_submods</i>	(Optional) Number of Submodules
<i>model_num</i>	(Optional) Model Number
<i>hw_ver</i>	(Optional) Hardware version
<i>part_num</i>	(Optional) Part Number
<i>part_revision</i>	(Optional) Part revision
<i>manuf_date</i>	(Optional) Manufacturing date
<i>serial_num</i>	(Optional) Serial Number
<i>CLEI_code</i>	(Optional) CLEI code

**Command Mode**

- /exec

## show hardware access-list lou resource threshold

```
show hardware access-list lou resource threshold [ __readonly__ { current [ { lou [ { resource [ { threshold [
{ <threshold_value> } ] } ] } ] } ] } ] }
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
lou	LOU
resource	hardware resource
threshold	port expansion threshold
<i>__readonly__</i>	(Optional)
current	(Optional)
lou	(Optional)
resource	(Optional)
threshold	(Optional)
<i>threshold_value</i>	(Optional)

### Command Mode

- /exec

# show hardware access-list resource pooling

show hardware access-list resource pooling [ *\_\_readonly\_\_* <mod-num> <status> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
resource	Hardware resource
pooling	ACL programming across TCAM banks
<i>__readonly__</i>	(Optional)
<i>mod-num</i>	(Optional) module number
<i>status</i>	(Optional) Banchaining status

## Command Mode

- /exec

# show hardware capacity

show hardware capacity

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Hardware usage levels for Power, Switching Fabric, Flash, etc

## Command Mode

- /exec

# show hardware capacity eobc

```
show hardware capacity eobc [ __readonly__ { eobc_usage <eobc_rx_packets> <eobc_rx_dropped>
<eobc_rx_pps> <eobc_tx_packets> <eobc_tx_dropped> <eobc_tx_pps> } ]
```

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
eobc	EOBC resources
<i>__readonly__</i>	(Optional)
<i>eobc_usage</i>	(Optional)
<i>eobc_rx_packets</i>	(Optional)
<i>eobc_rx_dropped</i>	(Optional)
<i>eobc_rx_pps</i>	(Optional)
<i>eobc_tx_packets</i>	(Optional)
<i>eobc_tx_dropped</i>	(Optional)
<i>eobc_tx_pps</i>	(Optional)

## Command Mode

- /exec



# show hardware capacity forwarding

show hardware capacity forwarding

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Hardware usage levels for Power, Switching Fabric, Flash, etc
forwarding	L2/L3 Forwarding resources

## Command Mode

- /exec

# show hardware capacity interface

```
show hardware capacity interface [ __readonly__ { TABLE_module_drops <module_drops> <tx_drops>
<rx_drops> <max_tx_port> <max_rx_port> } { TABLE_module_buffers <module_buffers> <tx_buffers>
<rx_buffers> } ]
```

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	Usage levels
interface	Interface Resources - Tx/Rx drops and Tx/Rx buffers
<i>__readonly__</i>	(Optional) Read Only
<i>module_drops</i>	(Optional) Module number for Tx/Rx drops
TABLE_module_drops	(Optional) show module
<i>tx_drops</i>	(Optional) Tx drops
<i>rx_drops</i>	(Optional) Rx drops
<i>max_tx_port</i>	(Optional) Port with max Tx drops
<i>max_rx_port</i>	(Optional) Port with max Rx drops
<i>module_buffers</i>	(Optional) Module number for Tx/Rx buffers
TABLE_module_buffers	(Optional) show module
<i>tx_buffers</i>	(Optional) Tx buffers
<i>rx_buffers</i>	(Optional) Rx buffers

## Command Mode

- /exec

# show hardware capacity module

```
show hardware capacity module [ __readonly__ { sup_ha_status <sup_ha_admin_status> <sup_ha_oper_status>
<dual_sup_hw_state> <redundancy_state> } { switch_resouces { TABLE_lcinfo <mod_num> <model_num>
<part_num> <serial_num> } { TABLE_xbarinfo <mod_num1> <model_num1> <part_num1> <serial_num1>
} } { TABLE_flash_nvram_info <mod_num2> <dev_name> <total_bytes> <free_bytes> <percent_used> }
]
```

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
module	SUP, LC, XBAR
<i>__readonly__</i>	(Optional)
<i>sup_ha_status</i>	(Optional)
<i>sup_ha_admin_status</i>	(Optional)
<i>sup_ha_oper_status</i>	(Optional)
<i>dual_sup_hw_state</i>	(Optional)
<i>redundancy_state</i>	(Optional)
<i>switch_resouces</i>	(Optional)
<i>TABLE_lcinfo</i>	(Optional)
<i>mod_num</i>	(Optional)
<i>model_num</i>	(Optional)
<i>part_num</i>	(Optional)
<i>serial_num</i>	(Optional)
<i>TABLE_xbarinfo</i>	(Optional)
<i>mod_num1</i>	(Optional)
<i>model_num1</i>	(Optional)
<i>part_num1</i>	(Optional)
<i>serial_num1</i>	(Optional)
<i>TABLE_flash_nvram_info</i>	(Optional)
<i>mod_num2</i>	(Optional)

<i>dev_name</i>	(Optional)
<i>total_bytes</i>	(Optional)
<i>free_bytes</i>	(Optional)
<i>percent_used</i>	(Optional)

**Command Mode**

- /exec

# show hardware capacity power

```
show hardware capacity power [ __readonly__ { power_summary <ps_redun_mode_admin>
<ps_redun_mode_oper> <power_total> <power_rsvd> <power_rsvd_percent> <power_given_mod>
<power_given_mod_percent> <power_avail> <power_avail_percent> <power_out_actual_draw>
<power_input_actual_draw> } ]
```

## Syntax Description

show	Show running system information
hardware	Hardware related
capacity	resource inventory and/or usage level
power	power summary
__readonly__	(Optional)
power_summary	(Optional)
<i>ps_redun_mode_admin</i>	(Optional) Mode: Redundant or Non-redundant
<i>ps_redun_mode_oper</i>	(Optional) Mode: Redundant or Non-redundant
<i>power_total</i>	(Optional)
<i>power_rsvd</i>	(Optional)
<i>power_rsvd_percent</i>	(Optional)
<i>power_given_mod</i>	(Optional)
<i>power_given_mod_percent</i>	(Optional)
<i>power_avail</i>	(Optional)
<i>power_avail_percent</i>	(Optional)
<i>power_out_actual_draw</i>	(Optional) Total Power Output, Actuals
<i>power_input_actual_draw</i>	(Optional) Total Power Input, Actuals

## Command Mode

- /exec

# show hardware fabricpath mac-learning module

```
show hardware fabricpath mac-learning module <module> [ __readonly__ { [ { TABLE_module
<module_num> <port_group> <mac_learning> } ] } ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
fabricpath	Fabric Path
mac-learning	MAC Learning
module	Specify a module number
<i>module</i>	Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_module	(Optional)
<i>module_num</i>	(Optional) Specify a module number
<i>port_group</i>	(Optional)
<i>mac_learning</i>	(Optional)

## Command Mode

- /exec

# show hardware feature-capability

```
show hardware feature-capability [ detailed ] [ __readonly__ [ TABLE_feature_support <feature_name> [
TABLE_module_support <mod_inst> <support> ] ] ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
feature-capability	show registered features supported
detailed	(Optional) detailed
__readonly__	(Optional)
TABLE_feature_support	(Optional) show features supported
<i>feature_name</i>	(Optional) feature name
TABLE_module_support	(Optional) show registered features supported
<i>mod_inst</i>	(Optional) module instance
<i>support</i>	(Optional) support details

## Command Mode

- /exec

# show hardware flow aging

show hardware flow aging [ instance <inst> ] [ module <num> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
aging	Aging Info
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec



# show hardware flow entry address type

show hardware flow entry address <addr> type { ip | ipv6 | l2 | mpls } [ instance <inst> ] [ module <num> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
entry	Netflow Table Entry
address	Netflow Table Address
<i>addr</i>	Netflow Table Address
type	Flow Type
ip	Internet Protocol Version 4
ipv6	Internet Protocol Version 6
l2	Layer 2 Protocol
mpls	MPLS Protocol
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow ip

```
show hardware flow ip [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ip	Internet Protocol Version 4
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow ipmac

```
show hardware flow ipmac [ { { profile <prof_id> } | { vlan <vlan_id> } | { interface <interface> } } ] [
instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ipmac	IPv4+MAC
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow ipv6

```
show hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
ipv6	Internet Protocol Version 6
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

## show hardware flow l2

```
show hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ detail ] [ module <num> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
l2	Layer 2 Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

### Command Mode

- /exec

# show hardware flow mpls

```
show hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
mpls	MPLS Protocol
monitor	(Optional) Netflow Flow Monitor
<i>mname</i>	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
<i>prof_id</i>	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
<i>vlan_id</i>	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface Name
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow sampler

```
show hardware flow sampler { all | count | index <index> | name <sname> } [ detail ] [ instance <inst> ] [ module <num> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
sampler	Flow Sampler
all	Netflow Sampler Usage
count	Netflow Sampler Utilization
index	Netflow Sampler Index
<i>index</i>	Netflow Sampler Index
name	Netflow Sampler Name
<i>sname</i>	Netflow Sampler Name
detail	(Optional) Detailed Output Display
instance	(Optional) Instance
<i>inst</i>	(Optional) Clipper Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec

# show hardware flow utilization

show hardware flow utilization [ instance <inst> ] [ module <num> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
flow	Netflow Module
utilization	NT Table Utilization
instance	(Optional) Instance
<i>inst</i>	(Optional) Earl Instance
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

## Command Mode

- /exec



# show hardware forwarding interface statistics mode

```
show hardware forwarding interface statistics mode [ __readonly__ { system [ { <sysmode> } ] [ {
TABLE_module <module> <modmode> } ] } ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	Show hardware information for forwarding path
interface	Interface
statistics	Statistics
mode	Statistics mode
__readonly__	(Optional)
system	(Optional)
<i>sysmode</i>	(Optional)
TABLE_module	(Optional)
<i>module</i>	(Optional) Specify a module number
<i>modmode</i>	(Optional)

## Command Mode

- /exec

# show hardware ip verify

show hardware [ forwarding ] ip verify [ module <module> ] [ \_\_readonly\_\_ <info\_str> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	(Optional) Show hardware information for forwarding path
ip	IP
verify	Show IP packet verification checks enabled in hardware
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
<i>info_str</i>	(Optional) IDS Check Stats

## Command Mode

- /exec

# show hardware profile buffer monitor show hardware profile buffer monitor internal

```
show hardware profile buffer monitor [ interface <intf-num> | buffer-block <buf-blk> | multicast <mcst-blk>
] { brief | detail [ last <samples-per-intf> ] | sampling } [ module <module> ] | show hardware profile buffer
monitor { internal-raw | summary [ module <module> ] } [ __readonly__ <cmd_name> <cmd_issue_time>
[ TABLE_summary <summary_util_name> <summary_1sec_util> <summary_5sec_util>
<summary_60sec_util> <summary_5min_util> <summary_1hr_util> <summary_total_buffer>
<summary_class_threshold> ] [ TABLE_ucst_hdr <ucst_hdr_util_name> <ucst_hdr_1sec_util>
<ucst_hdr_5sec_util> <ucst_hdr_60sec_util> <ucst_hdr_5min_util> <ucst_hdr_1hr_util>
<ucst_hdr_total_buffer> <ucst_hdr_class_threshold> ] [ TABLE_brief_entry <brief_util_name>
<brief_1sec_util> <brief_5sec_util> <brief_60sec_util> <brief_5min_util> <brief_1hr_util> ] [
TABLE_mcst_hdr <mcst_hdr_util_name> <mcst_hdr_1sec_util> <mcst_hdr_5sec_util> <mcst_hdr_60sec_util>
<mcst_hdr_5min_util> <mcst_hdr_1hr_util> <mcst_hdr_total_buffer> <mcst_hdr_class_threshold> ] [
TABLE_detail_entry <detail_util_name> <detail_util_state> <time_stamp> <384k_util> <768k_util>
<1152k_util> <1536k_util> <1920k_util> <2304k_util> <2688k_util> <3072k_util> <3456k_util>
<3840k_util> <4224k_util> <4608k_util> <4992k_util> <5376k_util> <5760k_util> <6144k_util> ] [
TABLE_sampling <sampling_interval> ] ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware profile buffer monitor data
profile	profile buffer monitor data
buffer	buffer
monitor	buffer monitor
interface	(Optional) show buffer monitoring data of an interface
<i>intf-num</i>	(Optional) show buffer monitoring data of an interface
buffer-block	(Optional) buffer block
<i>buf-blk</i>	(Optional) buffer block
multicast	(Optional) multicast buffer block
<i>mcst-blk</i>	(Optional) multicast buffer block
brief	show brief buffer monitor data
detail	show detail buffer monitor data
internal-raw	show buffer monitoring internal raw data
summary	show summary buffer monitor data
sampling	show sampling interval

last	(Optional) show detail buffer monitor data for last N intervals
<i>samples-per-intf</i>	(Optional) number of samples per interface, max 300
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<u>__readonly__</u>	(Optional) Read Only
<i>cmd_name</i>	(Optional) Command Name
<i>cmd_issue_time</i>	(Optional) Command Issue Time
TABLE_summary	(Optional) Table Summary
<i>summary_util_name</i>	(Optional) Names of Summary Utilization
<i>summary_1sec_util</i>	(Optional) Summary 1sec Buffer Utilization
<i>summary_5sec_util</i>	(Optional) Summary 5sec Buffer Utilization
<i>summary_60sec_util</i>	(Optional) Summary 60sec Buffer Utilization
<i>summary_5min_util</i>	(Optional) Summary 5min Buffer Utilization
<i>summary_1hr_util</i>	(Optional) Summary 1hour Buffer Utilization
<i>summary_total_buffer</i>	(Optional) Summary Total Buffer Available
<i>summary_class_threshold</i>	(Optional) Summary Buffer Threshold of Default Class
TABLE_ucst_hdr	(Optional) Table Ucst Header
<i>ucst_hdr_util_name</i>	(Optional) Names of Utilization
<i>ucst_hdr_1sec_util</i>	(Optional) Ucst 1sec Buffer Utilization
<i>ucst_hdr_5sec_util</i>	(Optional) Ucst 5sec Buffer Utilization
<i>ucst_hdr_60sec_util</i>	(Optional) Ucst 60sec Buffer Utilization
<i>ucst_hdr_5min_util</i>	(Optional) Ucst 5min Buffer Utilization
<i>ucst_hdr_1hr_util</i>	(Optional) Ucst 1hour Buffer Utilization
<i>ucst_hdr_total_buffer</i>	(Optional) Ucst Total Buffer Available
<i>ucst_hdr_class_threshold</i>	(Optional) Ucst Buffer Threshold of Default Class
TABLE_brief_entry	(Optional) Table Brief Entry
<i>brief_util_name</i>	(Optional) Brief Names of Utilization
<i>brief_1sec_util</i>	(Optional) Brief 1sec Buffer Utilization
<i>brief_5sec_util</i>	(Optional) Brief 5sec Buffer Utilization

<i>brief_60sec_util</i>	(Optional) Brief 60sec Buffer Utilization
<i>brief_5min_util</i>	(Optional) Brief 5min Buffer Utilization
<i>brief_1hr_util</i>	(Optional) Brief 1hour Buffer Utilization
TABLE_mcst_hdr	(Optional) Table Mcst Header
<i>mcst_hdr_util_name</i>	(Optional) Mcst Buffer Block Names of Utilization
<i>mcst_hdr_1sec_util</i>	(Optional) Mcst Buffer Block 1sec Buffer Utilization
<i>mcst_hdr_5sec_util</i>	(Optional) Mcst Buffer Block 5sec Buffer Utilization
<i>mcst_hdr_60sec_util</i>	(Optional) Mcst Buffer Block 60sec Buffer Utilization
<i>mcst_hdr_5min_util</i>	(Optional) Mcst Buffer Block 5min Buffer Utilization
<i>mcst_hdr_1hr_util</i>	(Optional) Mcst Buffer Block 1hour Buffer Utilization
<i>mcst_hdr_total_buffer</i>	(Optional) Mcst Total Buffer Available
<i>mcst_hdr_class_threshold</i>	(Optional) Mcst Buffer Threshold of Default Class
TABLE_detail_entry	(Optional) Table Detail Entry
<i>detail_util_name</i>	(Optional) Detail Names of Utilization
<i>detail_util_state</i>	(Optional) Detail State of Utilization
<i>time_stamp</i>	(Optional) Time Stamp of Entry
<i>384k_util</i>	(Optional) 384KB Buffer Utilization
<i>768k_util</i>	(Optional) 768KB Buffer Utilization
<i>1152k_util</i>	(Optional) 1152KB Buffer Utilization
<i>1536k_util</i>	(Optional) 1536KB Buffer Utilization
<i>1920k_util</i>	(Optional) 1920KB Buffer Utilization
<i>2304k_util</i>	(Optional) 2304KB Buffer Utilization
<i>2688k_util</i>	(Optional) 2688KB Buffer Utilization
<i>3072k_util</i>	(Optional) 3072KB Buffer Utilization
<i>3456k_util</i>	(Optional) 3456KB Buffer Utilization
<i>3840k_util</i>	(Optional) 3840KB Buffer Utilization
<i>4224k_util</i>	(Optional) 4224KB Buffer Utilization
<i>4608k_util</i>	(Optional) 4608KB Buffer Utilization
<i>4992k_util</i>	(Optional) 4992KB Buffer Utilization

<i>5376k_util</i>	(Optional) 5376KB Buffer Utilization
<i>5760k_util</i>	(Optional) 5760KB Buffer Utilization
<i>6144k_util</i>	(Optional) 6144KB Buffer Utilization
TABLE_sampling	(Optional) Table Sampling
<i>sampling_interval</i>	(Optional) Sampling Interval

**Command Mode**

- /exec

# show hardware profile forwarding-mode

show hardware profile forwarding-mode

## Syntax Description

show	Show running system information
hardware	Show hardware profile forwarding-mode
profile	profile forwarding-mode
forwarding-mode	forwarding-mode

## Command Mode

- /exec

# show hardware profile latency monitor sampling show hardware profile latency monitor

```
show hardware profile latency monitor { sampling | threshold } [ module <module> ] | show hardware profile
latency monitor { { summary [ detail | clear-timestamp ] } [ interface <intf-num> ] | { summary [ brief | sort
| top ] } | { raw [ verbose ] } [ module <module> ] } [ __readonly__ <cmd_issue_time> <device_instance> [
TABLE_sampling <sampling_interval> ] [ TABLE_threshold <threshold_avg> <threshold_max> ] [
TABLE_summary <summary_egress_port> <summary_sampling_interval> <summary_min_latency>
<summary_max_latency> <summary_avg_latency> <summary_std_deviation> ] [ TABLE_detail
<detail_timestamp> <detail_ifindex> <detail_fcmt> <detail_min_latency> <detail_max_latency>
<detail_avg_latency> ] [ TABLE_brief <brief_egress_port> <brief_avg_latency> ] ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware profile latency monitor data
profile	profile latency monitor data
latency	latency
monitor	latency monitor
sampling	show sampling interval
threshold	show threshold configured
summary	show switch-wide latency monitor data
detail	(Optional) show switch-wide or per-interface raw latency monitor data
clear-timestamp	(Optional) show switch-wide or per-interface latency clear timestamp
interface	(Optional) show per-interface latency monitor data
<i>intf-num</i>	(Optional) show per-interface latency monitor data
brief	(Optional) show switch-wide average latency
sort	(Optional) show switch-wide average latency in descending order
top	(Optional) show switch-wide top ten average latency
raw	show switch-wide or per-interface raw latency monitor data
verbose	(Optional) show switch-wide or per-interface raw latency monitor data
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
__readonly__	(Optional) Read only



<i>cmd_issue_time</i>	(Optional) Command issue time
<i>device_instance</i>	(Optional) Device instance
TABLE_sampling	(Optional) Table Sampling
<i>sampling_interval</i>	(Optional) Sampling Interval
TABLE_threshold	(Optional) Table Threshold
<i>threshold_avg</i>	(Optional) Threshold Average
<i>threshold_max</i>	(Optional) Threshold Max
TABLE_summary	(Optional) Table summary
<i>summary_egress_port</i>	(Optional) Summary Egress Port
<i>summary_sampling_interval</i>	(Optional) Summary Sampling Interval
<i>summary_min_latency</i>	(Optional) Summary Min latency
<i>summary_max_latency</i>	(Optional) Summary Max latency
<i>summary_avg_latency</i>	(Optional) Summary Avg latency
<i>summary_std_deviation</i>	(Optional) Summary Std Deviation
TABLE_detail	(Optional) Table summary detail
<i>detail_timestamp</i>	(Optional) Detail Timestamp
<i>detail_ifindex</i>	(Optional) Detail ifindex
<i>detail_fcnt</i>	(Optional) Detail fcnt
<i>detail_min_latency</i>	(Optional) Detail Min latency
<i>detail_max_latency</i>	(Optional) Detail Max latency
<i>detail_avg_latency</i>	(Optional) Detail Avg latency
TABLE_brief	(Optional) Table summary brief
<i>brief_egress_port</i>	(Optional) Brief Egress Port
<i>brief_avg_latency</i>	(Optional) Brief Avg latency

### Command Mode

- /exec

## show hardware profile status

```
show hardware profile status [ module <module> ] [ detail ] [ __readonly__ { <total_lpm> <total_host>
<reserved_lpm> <max_host4_limit> <max_host6_limit> <max_mcast_limit> <max_mcast6_limit>
<used_lpm_total> <used_v4_lpm> <used_v6_lpm> <used_v6_lpm_128> <used_host_lpm_total>
<used_host_v4_lpm> <used_host_v6_lpm> <used_mcast> <used_mcast6> <used_mcast_oifl>
<used_host_in_host_total> <used_host4_in_host> <used_host6_in_host> <mfib_fd_status>
<mfib_fd_maxroute> <mfib_fd_count> <max_v6_lpm_65_to_127_limit> <max_v6_lpm_limit>
<max_ecmp_table_limit> <used_ecmp_table> <lpm_to_host_migrate_table> <host_to_lpm_migrate_table>
<max_mcast_transit_route_limit> <used_mcast_transit_routes> <max_ecmp_nh_table_limit>
<used_ecmp_nh_table> } ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware usage settings
profile	Show current table usage
status	Show status of dynamic resource allocation
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) Show detailed information
<i>__readonly__</i>	(Optional) Read only
<i>total_lpm</i>	(Optional) Total LPM Entries
<i>total_host</i>	(Optional) Total Host Entries
<i>reserved_lpm</i>	(Optional) Reserved LPM Entries
<i>max_host4_limit</i>	(Optional) Max Host4 Limit Entries
<i>max_host6_limit</i>	(Optional) Max Host6 Limit Entries
<i>max_mcast_limit</i>	(Optional) Max Mcast Limit Entries
<i>max_mcast6_limit</i>	(Optional) Max IPv6 Mcast Limit Entries
<i>used_lpm_total</i>	(Optional) Used LPM Entries (Total)
<i>used_v4_lpm</i>	(Optional) Used IPv4 LPM Entries
<i>used_v6_lpm</i>	(Optional) Used IPv6 LPM Entries
<i>used_v6_lpm_128</i>	(Optional) Used IPv6 LPM_128 Entries
<i>used_host_lpm_total</i>	(Optional) Used Host Entries in LPM (Total)
<i>used_host_v4_lpm</i>	(Optional) Used Host4 Entries in LPM

<i>used_host_v6_lpm</i>	(Optional) Used Host6 Entries in LPM
<i>used_mcast</i>	(Optional) Used Mcast Entries
<i>used_mcast6</i>	(Optional) Used IPv6 Mcast Entries
<i>used_mcast_oifl</i>	(Optional) Used Mcast OIFL Entries
<i>used_host_in_host_total</i>	(Optional) Used Host Entries in Host (Total)
<i>used_host4_in_host</i>	(Optional) Used Host4 Entries in Host
<i>used_host6_in_host</i>	(Optional) Used Host6 Entries in Host
<i>mfib_fd_status</i>	(Optional) MFIB fd status
<i>mfib_fd_maxroute</i>	(Optional) MFIB fd maxroute
<i>mfib_fd_count</i>	(Optional) MFIB fd count
<i>max_v6_lpm_65_to_127_limit</i>	(Optional) Max Ucast IPv6 LPM_65_to_127 Limit Entries
<i>max_v6_lpm_limit</i>	(Optional) Max Ucast IPv6 LPM Limit Entries
<i>max_ecmp_table_limit</i>	(Optional) Max ECMP table Limit Entries
<i>used_ecmp_table</i>	(Optional) Used ECMP Table Entries
<i>lpm_to_host_migrate_table</i>	(Optional) Times Route Migrated from LPM to Host Table
<i>host_to_lpm_migrate_table</i>	(Optional) Times Route Migrated from Host to LPM Table
<i>max_mcast_transit_route_limit</i>	(Optional) Max Mcast Transit Route Limit Entries
<i>used_mcast_transit_routes</i>	(Optional) Used Mcast Transit Routes
<i>max_ecmp_nh_table_limit</i>	(Optional) Max ECMP NH table Limit Entries
<i>used_ecmp_nh_table</i>	(Optional) Used ECMP NH Table Entries

**Command Mode**

- /exec

# show hardware profile tcam region

```
show hardware profile tcam region [ __readonly__ { TCAM_Region [ { TABLE_Sizes <tcam_compat_type>
<tcam_compat_size> <tcam_compat_width> } ] } ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
profile	profile
tcam	Show tcam parameters
region	Show tcam region sizes
<i>__readonly__</i>	(Optional)
TCAM_Region	(Optional)
TABLE_Sizes	(Optional)
<i>tcam_compat_type</i>	(Optional)
<i>tcam_compat_size</i>	(Optional)
<i>tcam_compat_width</i>	(Optional)

## Command Mode

- /exec

# show hardware qos eoq stats-class

```
show hardware qos eoq stats-class [ module <module> ] [ __readonly__ TABLE_qos_eoq_stats_class <module>
<eoq-stats-class-desc> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show QoS related information
eoq	Show Extended Output Queue(EOQ) related information
stats-class	Show EOQ Statistics class selection config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_eoq_stats_class	(Optional) the xml qos_eoq_stats_class configuration
<i>eoq-stats-class-desc</i>	(Optional) selected class description

## Command Mode

- /exec

# show hardware qos include ipg

show hardware qos include ipg [ module <module> ] [ \_\_readonly\_\_ TABLE\_qos\_include\_ipg <module> ]

## Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
include	Show include config
ipg	Show whether to include IPG in Shaping/Policing config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_include_ipg	(Optional) the xml qos_include_ipg configuration

## Command Mode

- /exec

## show hardware qos ing-pg-hdrm-reserve

```
show hardware qos ing-pg-hdrm-reserve [ module <module> ] [ __readonly__
TABLE_qos_ing_pg_hdrm_reserve <module> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-hdrm-reserve	Show ing-pg-hdrm-reserve config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_qos_ing_pg_hdrm_reserve	(Optional) the xml qos_ing_pg_hdrm_reserve configuration

### Command Mode

- /exec

# show hardware qos ing-pg-no-min

```
show hardware qos ing-pg-no-min [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_no_min
<module> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-no-min	Show ing-pg-no-min config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_no_min	(Optional) the xml qos_ing_pg_no_min configuration

## Command Mode

- /exec



# show hardware qos ing-pg-share

```
show hardware qos ing-pg-share [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_share <module> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-share	Show ing-pg-share config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_share	(Optional) the xml qos_ing_pg_share configuration

## Command Mode

- /exec

# show hardware qos min-buffer

```
show hardware qos min-buffer [ module <module> ] [ __readonly__ TABLE_qos_min_buffer_profile
<module> <buff-prof-desc> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
min-buffer	Show min-buffer config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_min_buffer_profile	(Optional) the xml qos_min_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

## Command Mode

- /exec

# show hardware qos ns-buffer-profile

```
show hardware qos ns-buffer-profile [ module <module> ] [ __readonly__ TABLE_qos_ns_buffer_profile
<module> <buff-prof-desc> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ns-buffer-profile	Show ns-buffer-profile config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ns_buffer_profile	(Optional) the xml qos_ns_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

## Command Mode

- /exec

# show hardware rl snmp class-id

```
show hardware rl snmp class-id <class-id> [ __readonly__ TABLE-classRateLimiterTable <class-id-out>
<class-descr> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
<i>__readonly__</i>	(Optional)
TABLE-classRateLimiterTable	(Optional) Class Rate Limiter Table
<i>class-id-out</i>	(Optional) class if out
<i>class-descr</i>	(Optional) class description

## Command Mode

- /exec

# show hardware rl snmp global class-id

```
show hardware rl snmp global class-id <class-id> [ __readonly__ TABLE-globalRateLimiterTable
<class-id-out> <rate-limit-configured> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total> ]
```

## Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
global	Show Global information
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
<i>__readonly__</i>	(Optional)
TABLE-globalRateLimiterTable	(Optional) Global Rate Limiter Table
<i>class-id-out</i>	(Optional) class if out
<i>rate-limit-configured</i>	(Optional) rate-limit-configured
<i>rate-limit-allowed</i>	(Optional) rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) rate-limit-dropped
<i>rate-limit-total</i>	(Optional) rate-limit-total

## Command Mode

- /exec

## show hardware rl snmp local snmp-index class-id

```
show hardware rl snmp local snmp-index <snmp-index> class-id <class-id> [ __readonly__
TABLE-localRateLimiterTable <snmp-index-out> <class-id-out> <rate-limit-configured>
<rate-limit-configured-source> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total> ]
```

### Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
local	Show Local information
snmp-index	snmp physical index
<i>snmp-index</i>	physical index
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
__readonly__	(Optional)
TABLE-localRateLimiterTable	(Optional) Local Rate Limiter Table
<i>snmp-index-out</i>	(Optional) snmp index out
<i>class-id-out</i>	(Optional) class if out
<i>rate-limit-configured</i>	(Optional) rate-limit-configured
<i>rate-limit-configured-source</i>	(Optional) rate-limit-configured-source
<i>rate-limit-allowed</i>	(Optional) rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) rate-limit-dropped
<i>rate-limit-total</i>	(Optional) rate-limit-total

### Command Mode

- /exec

# show hostname

```
show { hostname | switchname } [ __readonly__ { <hostname> } ]
```

## Syntax Description

show	Show running system information
hostname	show the system's hostname
switchname	show the system's hostname
__readonly__	(Optional) Read Only
<i>hostname</i>	(Optional)

## Command Mode

- /exec

# show hosts

```
show hosts [ __readonly__ [ <dnslookup> ] [ <dnsnameservice> ] [ { TABLE_vrf <vrfname> [
<defaultdomains> ] [ <additionaldomainserver> ] [ <domainservers> ] [ <nameservice> ] [ <dhcpdomains>
] [ <dhcpdomainservers> ] } ] [ { TABLE_dnsconfigvrf <dnsvrfname> [ <usevrf> ] [ <token> ] [ {
TABLE_dnsconfigvrfconfig <config> } ] } ] [ { TABLE_hosts <host> [ <address> ] } ] ]
```

## Syntax Description

show	Show running system information
hosts	Show information about DNS
__readonly__	(Optional)
<i>dnslookup</i>	(Optional) dns lookup enable status
<i>dnsnameservice</i>	(Optional) name service
TABLE_vrf	(Optional) vrf domain servers
<i>vrfname</i>	(Optional) vrf name
<i>defaultdomains</i>	(Optional) default domain
<i>additionaldomainserver</i>	(Optional) additionaldomain
<i>domainservers</i>	(Optional) domain server
<i>nameservice</i>	(Optional) name service
<i>dhcpdomains</i>	(Optional) dhcp domains
<i>dhcpdomainservers</i>	(Optional) dhcpservers
TABLE_dnsconfigvrf	(Optional) dns config vrf
<i>dnsvrfname</i>	(Optional) vrfname
<i>usevrf</i>	(Optional) usevrf
<i>token</i>	(Optional) token
TABLE_dnsconfigvrfconfig	(Optional) dns config vrf config
<i>config</i>	(Optional) token
TABLE_hosts	(Optional) all configured dns hosts
<i>host</i>	(Optional) xml host information
<i>address</i>	(Optional) xml address information

## Command Mode



- /exec

# show hsrp

```
show hsrp [ interface <interface-id> ] [ group <group-number> ] [ active | init | learn | listen | speak | standby
] + [ all ] [ brief [ all ] | detail ] [ ipv4 | ipv6 ] [ _readonly_ <show_hsrp_start> { TABLE_grp_detail
<sh_if_index> <sh_group_num> <sh_group_type> <sh_group_version> <sh_group_state> [ <sh_state_reason>
] <sh_prio> <sh_cfg_prio> <sh_fwd_lower_threshold> <sh_fwd_upper_threshold> <sh_can_forward>
<sh_preempt> [ <sh_preempt_min_delay> ] [ <sh_preempt_min_delay_active> ] [ <sh_preempt_reload_delay>
] [ <sh_preempt_reload_delay_active> ] [ <sh_preempt_sync_delay> ] [ <sh_preempt_sync_delay_active> ]
<sh_cur_hello> <sh_cur_hello_attr> [ <sh_cfg_hello> ] [ <sh_cfg_hello_attr> ] [ <sh_active_hello> ]
<sh_cur_hold> <sh_cur_hold_attr> [ <sh_cfg_hold> ] [ <sh_cfg_hold_attr> ] [ <sh_vip> | <sh_vip_v6> ]
<sh_vip_attr> <sh_num_vip_sec> { [ TABLE_grp_vip_sec <sh_vip_sec> ] } [ <sh_active_router_addr> |
<sh_active_router_addr_v6> ] <sh_active_router_prio> [ <sh_active_router_timer> ] [
<sh_standby_router_addr> | <sh_standby_router_addr_v6> ] <sh_standby_router_prio>
<sh_authentication_type> <sh_authentication_data> [ <sh_keystring_attr> ] [ <sh_keystring_timeout> ] [
<sh_keystring_cur_valid> ] <sh_vmac> <sh_vmac_attr> <sh_num_of_state_changes> [ <sh_last_state_change>
] <sh_num_of_total_state_changes> [ <sh_last_total_state_change> ] { [ TABLE_grp_track_obj <sh_track_obj>
<sh_track_obj_state> <sh_track_obj_prio> ] } <sh_num_track_obj> <sh_ip_redund_name>
<sh_ip_redund_name_attr> } <show_hsrp_end> ]
```

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
active	(Optional) Groups in active state
init	(Optional) Groups in init state
listen	(Optional) Groups in listen state
standby	(Optional) Groups in standby state
learn	(Optional) Groups in learn state
speak	(Optional) Groups in speak state
group	(Optional) Group number
<i>group-number</i>	(Optional) Group Number
all	(Optional) Include groups in disabled state
brief	(Optional) Brief output
detail	(Optional) Detailed output
ipv4	(Optional) HSRP V4 Groups
ipv6	(Optional) HSRP V6 Groups

<i>all</i>	(Optional) Display all VIPs
<i>__readonly__</i>	(Optional) Read only
<i>show_hsrp_start</i>	(Optional) Show hsrp start
<i>TABLE_grp_detail</i>	(Optional) Group table detail
<i>sh_if_index</i>	(Optional) Interface type and number
<i>sh_group_num</i>	(Optional) Group number
<i>sh_group_state</i>	(Optional) HSRP state
<i>sh_state_reason</i>	(Optional) Reason
<i>sh_group_type</i>	(Optional) Group type
<i>sh_group_version</i>	(Optional) Group version
<i>sh_prio</i>	(Optional) Priority
<i>sh_cfg_prio</i>	(Optional) Configured priority
<i>sh_fwd_lower_threshold</i>	(Optional) Lower threshold value
<i>sh_fwd_upper_threshold</i>	(Optional) Upper threshold value
<i>sh_can_forward</i>	(Optional) Current forwarding status
<i>sh_preempt</i>	(Optional) Preemption enabled/not
<i>sh_preempt_min_delay</i>	(Optional) Preemption min delay
<i>sh_preempt_min_delay_active</i>	(Optional) Active preemption min delay
<i>sh_preempt_reload_delay</i>	(Optional) Preemption reload delay
<i>sh_preempt_reload_delay_active</i>	(Optional) Active preemption reload delay
<i>sh_preempt_sync_delay</i>	(Optional) Preemption sync delay
<i>sh_preempt_sync_delay_active</i>	(Optional) Active preemption sync delay
<i>sh_cur_hello</i>	(Optional) Current hello time
<i>sh_cur_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_cfg_hello</i>	(Optional) Configured hello time
<i>sh_cfg_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_active_hello</i>	(Optional) Active hello time
<i>sh_cur_hold</i>	(Optional) Current hold time
<i>sh_cur_hold_attr</i>	(Optional) Hello time in ms/not

<i>sh_cfg_hold</i>	(Optional) Configured hold time
<i>sh_cfg_hold_attr</i>	(Optional) Hello time in ms/not
<i>sh_vip</i>	(Optional) Virtual IP address
<i>sh_vip_attr</i>	(Optional) Virtual IP address attribute
<i>sh_num_vip_sec</i>	(Optional) Number of Secondary virtual IP address
TABLE_grp_vip_sec	(Optional) Group secondary ip address
<i>sh_vip_sec</i>	(Optional) Secondary virtual IP address
<i>sh_active_router_addr</i>	(Optional) Active router address
<i>sh_active_router_prio</i>	(Optional) Active router priority
<i>sh_active_router_timer</i>	(Optional) Active router expiry timer
<i>sh_standby_router_addr</i>	(Optional) Standby router address
<i>sh_standby_router_prio</i>	(Optional) Standby router priority
<i>sh_authentication_type</i>	(Optional) Authentication type
<i>sh_authentication_data</i>	(Optional) Authentication data
<i>sh_keystring_attr</i>	(Optional) Keysting attribute
<i>sh_keystring_timeout</i>	(Optional) Keysting timeout
<i>sh_keystring_cur_valid</i>	(Optional) Keysting current valid time
<i>sh_vmac</i>	(Optional) Virtual MAC
<i>sh_vmac_attr</i>	(Optional) Virtual MAC attribute
<i>sh_num_of_state_changes</i>	(Optional) Number of state changes
<i>sh_last_state_change</i>	(Optional) Last state change time
<i>sh_num_of_total_state_changes</i>	(Optional) Number of total state changes
<i>sh_last_total_state_change</i>	(Optional) Last total state change time
<i>sh_num_track_obj</i>	(Optional) Number of tracked objects
TABLE_grp_track_obj	(Optional) Group tracked objects
<i>sh_track_obj</i>	(Optional) Tracked object
<i>sh_track_obj_state</i>	(Optional) State of tracked object
<i>sh_track_obj_prio</i>	(Optional) Tracked object priority decrement
<i>sh_ip_redund_name</i>	(Optional) IP redundancy name

<i>sh_ip_redund_name_attr</i>	(Optional) IP redundancy name attribute
<i>show_hsrp_end</i>	(Optional) End of Group

**Command Mode**

- /exec

# show hsrp anycast

show hsrp anycast [ <id> { ipv4 | ipv6 | both } ] [ brief ]

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
<i>id</i>	(Optional) Bundle number
ipv4	(Optional) Associate IP Version 4 for the bundle
ipv6	(Optional) Associate IP Version 6 for the bundle
both	(Optional) Associate IP Version 4 and 6 for the bundle
brief	(Optional) Brief output

## Command Mode

- /exec

# show hsrp anycast interface vlan

show hsrp anycast interface { vlan | bdi } <id>

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
interface	Bundle on this interface Interface
vlan	VLAN interface
bdi	Bridge-Domain interface
<i>id</i>	VLAN number

## Command Mode

- /exec

## show hsrp anycast remote-db

show hsrp anycast remote-db [ <id> { ipv4 | ipv6 | both } ]

### Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
remote-db	Remote data base for the bundle
<i>id</i>	(Optional) Bundle number
ipv4	(Optional) Associate IP Version 4 for the bundle
ipv6	(Optional) Associate IP Version 6 for the bundle
both	(Optional) Associate IP Version 4 and 6 for the bundle

### Command Mode

- /exec



# show hsrp anycast summary

show hsrp anycast summary

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
anycast	Anycast related commands
summary	Show HSRP summary

## Command Mode

- /exec

# show hsrp bfd-sessions

show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ]

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
bfd-sessions	BFD sessions
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
to	(Optional) To IP address
<i>ipaddress</i>	(Optional) Sessions to IP address

## Command Mode

- /exec

## show hsrp bfd-sessions

```
show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> <list_size> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <ref_count> {
TABLE_ref_groups <ref_group_id> } { TABLE_hist_groups <hist_group_id> <hist_operation>
<hist_rel_time> <hist_abs_time> <hist_ref_count> <hist_group_state> <hist_status> <hist_op_reason> } ]
```

### Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
bfd-sessions	BFD sessions
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
to	(Optional) To IP address
<i>ipaddress</i>	(Optional) Sessions to IP address
<i>__readonly__</i>	(Optional)
TABLE_bfd_sess	(Optional)
<i>interface</i>	(Optional) Interface
<i>list_size</i>	(Optional) List size
<i>src_addr</i>	(Optional) IPv4 Source address
<i>dst_addr</i>	(Optional) IPv4 Destination address
<i>ref_count</i>	(Optional) Ref count
TABLE_ref_groups	(Optional)
<i>ref_group_id</i>	(Optional) Group id
TABLE_hist_groups	(Optional)
<i>hist_group_id</i>	(Optional) Group id
<i>hist_operation</i>	(Optional) Operation
<i>hist_rel_time</i>	(Optional) Relative time
<i>hist_abs_time</i>	(Optional) Absolute time
<i>hist_ref_count</i>	(Optional) Ref count
<i>hist_group_state</i>	(Optional) Group state

<i>hist_status</i>	(Optional) Status
<i>hist_op_reason</i>	(Optional) Op reason

**Command Mode**

- /exec

# show hsrp delay

```
show hsrp delay [ interface <interface-id> ] [ __readonly__ TABLE_delay <interface> <min_delay>
<reload_delay> ]
```

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
delay	Group initialisation delay
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
<i>__readonly__</i>	(Optional)
<i>TABLE_delay</i>	(Optional)
<i>interface</i>	(Optional) Interface
<i>min_delay</i>	(Optional) Min delay
<i>reload_delay</i>	(Optional) Reload delay

## Command Mode

- /exec

## show hsrp ext-mib sec-addr

```
show hsrp ext-mib sec-addr [ <ifindex-in> <group-id-in> <ip1-in> <ip2-in> <ip3-in> <ip4-in> ] [ __readonly__
TABLE_cHsrpExtSecAddrTable <ifindex-out> <group-id-out> <ip1-out> <ip2-out> <ip3-out> <ip4-out> {
<cHsrpExtSecAddrTable> <cHsrpExtSecAddrAddress> <cHsrpExtSecAddrRowStatus> } ]
```

### Syntax Description

<code>__readonly__</code>	(Optional) Read Only
<code>show</code>	Show running system information
<code>hsrp</code>	Hot Standby Router Protocol (HSRP) information
<code>ext-mib</code>	Show hsrp extended mib specific configuration
<code>sec-addr</code>	Secondary virtual address
<i>ifindex-in</i>	(Optional) hsrp group ifindex
<i>group-id-in</i>	(Optional) hsrp group id
<i>group-id-out</i>	(Optional) hsrp group num
<i>ifindex-out</i>	(Optional) hsrp group interface index
<i>ip1-in</i>	(Optional) first part of vip
<i>ip2-in</i>	(Optional) second part of vip
<i>ip3-in</i>	(Optional) third part of vip
<i>ip4-in</i>	(Optional) fourth part of vip
<i>ip1-out</i>	(Optional) first part of vip out
<i>ip2-out</i>	(Optional) second part of vip out
<i>ip3-out</i>	(Optional) third part of vip out
<i>ip4-out</i>	(Optional) fourth part of vip out
<code>TABLE_cHsrpExtSecAddrTable</code>	(Optional) Hsrp extended mib secondary address table
<i>cHsrpExtSecAddrTable</i>	(Optional) Hsrp extended mib Secondary address table
<i>cHsrpExtSecAddrAddress</i>	(Optional) Hsrp extended mib Secondary Address
<i>cHsrpExtSecAddrRowStatus</i>	(Optional) Hsrp extended mib secondary address row status

### Command Mode

- /exec

## show hsrp ext-mib use-bia

```
show hsrp ext-mib use-bia [ <ifindex-in> ] [ __readonly__ TABLE_cHsrpExtIfEntry <ifindex-out> {
<cHsrpExtIfUseBIA> <cHsrpExtIfRowStatus> } ]
```

### Syntax Description

<code>__readonly__</code>	(Optional) Read Only
<code>show</code>	Show running system information
<code>hsrp</code>	Hot Standby Router Protocol (HSRP) information
<code>ext-mib</code>	Show hsrp extended mib specific configuration
<code>use-bia</code>	Use BIA
<i>ifindex-in</i>	(Optional) hsrp group ifindex
<i>ifindex-out</i>	(Optional) hsrp group ifindex
<code>TABLE_cHsrpExtIfEntry</code>	(Optional) Use BIA info table
<i>cHsrpExtIfUseBIA</i>	(Optional) Use BIA enabled
<i>cHsrpExtIfRowStatus</i>	(Optional) Use BIA row status

### Command Mode

- /exec

# show hsrp mgo

```
show hsrp mgo [ name <name> | brief ] [ __readonly__ TABLE_hsrp_mgo <master_name> <master_interface>
<master_address_family> <master_group_id> [ <master_version> ] <master_state> [ <master_down_reason>
] [ { TABLE_slave <slave_interface> <slave_group_id> <slave_state> [ <slave_down_reason> } ] [
<num_slave_group> ] ]
```

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
mgo	Show HSRP mgo details
name	(Optional) Redundancy name string
<i>name</i>	(Optional) name string
brief	(Optional) show HSPR mgo brief
<i>__readonly__</i>	(Optional)
TABLE_hsrp_mgo	(Optional)
<i>master_name</i>	(Optional) HSRP master name
<i>master_interface</i>	(Optional) HSRP master interface
<i>master_address_family</i>	(Optional) HSRP master AF
<i>master_group_id</i>	(Optional) HSRP master group ID
<i>master_version</i>	(Optional) HSRP master version
<i>master_state</i>	(Optional) HSRP master state
<i>master_down_reason</i>	(Optional) HSRP master down reason
TABLE_slave	(Optional) Slave table
<i>slave_interface</i>	(Optional) HSRP slave interface
<i>slave_group_id</i>	(Optional) HSRP slave group id
<i>slave_state</i>	(Optional) HSRP slave state
<i>slave_down_reason</i>	(Optional) HSRP slave down reason
<i>num_slave_group</i>	(Optional) HSRP number of slave groups

## Command Mode

- /exec



# show hsrp summary

```
show hsrp summary [ __readonly__ <switchover_notify_rxed> <bfd_enabled> <num_of_groups>
<num_of_v4_v1_groups> <num_of_v4_v2_groups> <num_of_v6_v2_groups> <num_of_active_groups>
<num_of_standby_groups> <num_of_listen_groups> <num_of_v6_active_groups>
<num_of_v6_standby_groups> <num_of_v6_listen_groups> <num_of_hsrp_enabled_ifs> <counter_pkts_tx>
<counter_pkts_tx_failure> <counter_pkts_in> <counter_pkts_bad_vr> <counter_mts_rx> ]
```

## Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
summary	Show HSRP summary
<i>__readonly__</i>	(Optional)
<i>switchover_notify_rxed</i>	(Optional) Switchover notification received (1 => active)
<i>bfd_enabled</i>	(Optional) BFD status
<i>num_of_groups</i>	(Optional) Total number of groups
<i>num_of_v4_v1_groups</i>	(Optional) Number of IPv4 V1 groups
<i>num_of_v4_v2_groups</i>	(Optional) Number of IPv4 V2 groups
<i>num_of_v6_v2_groups</i>	(Optional) Number of IPv6 V2 groups
<i>num_of_active_groups</i>	(Optional) Number of active groups
<i>num_of_standby_groups</i>	(Optional) Number of standby groups
<i>num_of_listen_groups</i>	(Optional) Number of listen groups
<i>num_of_v6_active_groups</i>	(Optional) Number of IPv6 active groups
<i>num_of_v6_standby_groups</i>	(Optional) Number of IPv6 standby groups
<i>num_of_v6_listen_groups</i>	(Optional) Number of IPv6 listen groups
<i>num_of_hsrp_enabled_ifs</i>	(Optional) Number of HSRP enabled interfaces
<i>counter_pkts_tx</i>	(Optional) Number of packet transmission successes
<i>counter_pkts_tx_failure</i>	(Optional) Number of packet transmission failure
<i>counter_pkts_in</i>	(Optional) Number of packets received successfully
<i>counter_pkts_bad_vr</i>	(Optional) Number of packets for unknown groups
<i>counter_mts_rx</i>	(Optional) Number of MTS messages received

## Command Mode

- /exec

# show hw\_telemetry ssx collector

```
show hw_telemetry ssx collector { all | <collectorname> } [ __readonly__ [ TABLE_ssx_collectors  
<collector-name> <src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> ] ]
```

## Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
collector	Show collector details
all	All sessions
<i>collectorname</i>	SSX Collector to display
<i>__readonly__</i>	(Optional) Read Only
TABLE_ssx_collectors	(Optional) SSX collectors table

## Command Mode

- /exec

## show hw\_telemetry ssx details

```
show hw_telemetry ssx details [ __readonly__ [ TABLE_ssx_details
<arp-timer-running><asic-instance><asic-slice><io-srcid> [ <packets-sent> ] ] ]
```

### Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
details	Show SSX details
__readonly__	(Optional) Read Only
TABLE_ssx_details	(Optional) SSX details table

### Command Mode

- /exec

# show hw\_telemetry ssx monitor

```
show hw_telemetry ssx monitor { all | <monitorname> } [ __readonly__ [ TABLE_ssx_monitors
<monitor-name> <globally-applied><status><collectorname><recordname> ] ]
```

## Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
monitor	Show monitor details
all	All sessions
<i>monitorname</i>	SSX Monitor to display
<i>__readonly__</i>	(Optional) Read Only
TABLE_ssx_monitors	(Optional) SSX monitors table

## Command Mode

- /exec

# show hw\_telemetry ssx record

```
show hw_telemetry ssx record { all | <recordname> } [ __readonly__ [ TABLE_ssx_records <record-name>
[ TABLE_stats_type <stats-type> ] <interval> ] ]
```

## Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
record	Show record details
all	All sessions
<i>recordname</i>	SSX Record to display
<i>__readonly__</i>	(Optional) Read Only
TABLE_ssx_records	(Optional) SSX records table
TABLE_stats_type	(Optional) SSX records stats type table
<i>interval</i>	(Optional) SSX interval

## Command Mode

- /exec