H Commands

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>] <kern_uptm_days> <kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> <rr_usecs> <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>]]] }]

Syntax Description

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

bootflash_size	(Optional)
slot0_size	(Optional)
host_name	(Optional)
kern_uptm_days	(Optional)
kern_uptm_hrs	(Optional)
kern_uptm_mins	(Optional)
kern_uptm_secs	(Optional)
rr_usecs	(Optional)
rr_ctime	(Optional)
rr_reason	(Optional)
rr_sys_ver	(Optional)
rr_service	(Optional)
manufacturer	(Optional)
TABLE_slot	(Optional) Slot
num_slot_str	(Optional) Number of elements
TABLE_slot_info	(Optional) Slot Info
status_ok_empty	(Optional) Status (Present or Absent)
type	(Optional) Description of the element
num_submods	(Optional) Number of Submodules
model_num	(Optional) Model Number
hw_ver	(Optional) Hardware version
part_num	(Optional) Part Number
part_revision	(Optional) Part revision
manuf_date	(Optional) Manufacturing date
serial_num	(Optional) Serial Number
CLEI_code	(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
__readonly__	(Optional)
current	(Optional)
lou	(Optional)
resource	(Optional)
threshold	(Optional)
threshold_value	(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
__readonly__	(Optional)
mod-num	(Optional) module number
status	(Optional) Banchaining status

Command Mode

- /exec

show hardware access-list tcam

show hardware access-list tcam { { template { nfe | nfe2 | l2-l3 | l3 | <name> | all } } | { region } } [__readonly__ { TCAM_Region [{ TABLE_Sizes <type> <tcam_size> <tcam_width> }] }]

Syntax Description

show	Show running system information
hardware	Show hardware information
access-list	Access Control List
tcam	Show tcam parameters
region	Show tcam region sizes
__readonly__	(Optional)
TCAM_Region	(Optional)
TABLE_Sizes	(Optional)
type	(Optional)
tcam_size	(Optional)
tcam_width	(Optional)
template	Specify template name
nfe	NFE (Trident2) TCAM template
nfe2	NFE2 (Tomahawk) tcam template
l2-l3	L2-L3 default tcam template
l3	L3 default tcam template
name	Name of custom template to be displayed
all	Display all custom templates

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
__readonly__	(Optional)
eobc_usage	(Optional)
eobc_rx_packets	(Optional)
eobc_rx_dropped	(Optional)
eobc_rx_pps	(Optional)
eobc_tx_packets	(Optional)
eobc_tx_dropped	(Optional)
eobc_tx_pps	(Optional)

Command Mode

- /exec

show hardware capacity fabric-utilization

show hardware capacity fabric-utilization

Syntax Description

show	Show running system information
hardware	Show hardware information
capacity	resource inventory and/or usage level
fabric-utilization	Show per module Fabric utilization

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
__readonly__	(Optional) Read Only
module_drops	(Optional) Module number for Tx/Rx drops
TABLE_module_drops	(Optional) show module
tx_drops	(Optional) Tx drops
rx_drops	(Optional) Rx drops
max_tx_port	(Optional) Port with max Tx drops
max_rx_port	(Optional) Port with max Rx drops
module_buffers	(Optional) Module number for Tx/Rx buffers
TABLE_module_buffers	(Optional) show module
tx_buffers	(Optional) Tx buffers
rx_buffers	(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
__readonly__	(Optional)
sup_ha_status	(Optional)
sup_ha_admin_status	(Optional)
sup_ha_oper_status	(Optional)
dual_sup_hw_state	(Optional)
redundancy_state	(Optional)
switch_resouces	(Optional)
TABLE_lcinfo	(Optional)
mod_num	(Optional)
model_num	(Optional)
part_num	(Optional)
serial_num	(Optional)
TABLE_xbarinfo	(Optional)
mod_num1	(Optional)
model_num1	(Optional)
part_num1	(Optional)
serial_num1	(Optional)
TABLE_flash_nvram_info	(Optional)
mod_num2	(Optional)

dev_name	(Optional)
total_bytes	(Optional)
free_bytes	(Optional)
percent_used	(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)
ps_redun_mode_admin	(Optional) Mode: Redundant or Non-redundant
ps_redun_mode_oper	(Optional) Mode: Redundant or Non-redundant
power_total	(Optional)
power_rsvd	(Optional)
power_rsvd_percent	(Optional)
power_given_mod	(Optional)
power_given_mod_percent	(Optional)
power_avail	(Optional)
power_avail_percent	(Optional)
power_out_actual_draw	(Optional) Total Power Output, Actuals
power_input_actual_draw	(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
module	Specify a module number
__readonly__	(Optional)
TABLE_module	(Optional)
module_num	(Optional) Specify a module number
port_group	(Optional)
mac_learning	(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
feature_name	(Optional) feature name
TABLE_module_support	(Optional) show registered features supported
mod_inst	(Optional) module instance
support	(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
inst	(Optional) Earl Instance
module	(Optional) Line card module
num	(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
addr	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
inst	(Optional) Earl Instance
module	(Optional) Line card module
num	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
interface	(Optional) Interface Name
instance	(Optional) Instance
inst	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
num	(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
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
interface	(Optional) Interface Name
instance	(Optional) Instance
inst	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
num	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
interface	(Optional) Interface Name
instance	(Optional) Instance
inst	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
num	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
instance	(Optional) Instance
inst	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
num	(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
mname	(Optional) Netflow Flow Monitor Name
profile	(Optional) Flow Profile
prof_id	(Optional) Netflow Profile ID
vlan	(Optional) Vlan commands
vlan_id	(Optional) VLAN ID 1-4094
interface	(Optional) Interface
interface	(Optional) Interface Name
instance	(Optional) Instance
inst	(Optional) Earl Instance
detail	(Optional) Detailed Output Display
module	(Optional) Line card module
num	(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
index	Netflow Sampler Index
name	Netflow Sampler Name
sname	Netflow Sampler Name
detail	(Optional) Detailed Output Display
instance	(Optional) Instance
inst	(Optional) Clipper Instance
module	(Optional) Line card module
num	(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
inst	(Optional) Earl Instance
module	(Optional) Line card module
num	(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)
sysmode	(Optional)
TABLE_module	(Optional)
module	(Optional) Specify a module number
modmode	(Optional)

Command Mode

- /exec

show hardware forwarding memory health detail

show hardware forwarding memory health detail

Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	forwarding information
memory	memory information
health	memory health information
detail	show the detail

Command Mode

- /exec

show hardware forwarding memory health summary

show hardware forwarding memory health summary

Syntax Description

show	Show running system information
hardware	Show hardware information
forwarding	forwarding information
memory	memory information
health	memory health information
summary	show the summary

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
module	(Optional) Specify a module number
__readonly__	(Optional)
info_str	(Optional) IDS Check Stats

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> <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_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
module	(Optional) Slot/module number
detail	(Optional) Show detailed information
__readonly__	(Optional) Read only
total_lpm	(Optional) Total LPM Entries
total_host	(Optional) Total Host Entries
reserved_lpm	(Optional) Reserved LPM Entries
max_host4_limit	(Optional) Max Host4 Limit Entries
max_host6_limit	(Optional) Max Host6 Limit Entries
max_mcast_limit	(Optional) Max Mcast Limit Entries
used_lpm_total	(Optional) Used LPM Entries (Total)
used_v4_lpm	(Optional) Used IPv4 LPM Entries
used_v6_lpm	(Optional) Used IPv6 LPM Entries
used_v6_lpm_128	(Optional) Used IPv6 LPM_128 Entries
used_host_lpm_total	(Optional) Used Host Entries in LPM (Total)
used_host_v4_lpm	(Optional) Used Host4 Entries in LPM
used_host_v6_lpm	(Optional) Used Host6 Entries in LPM

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

Command Mode

- /exec

show hardware qos burst-detect max-records

show hardware qos burst-detect max-records [__readonly__ TABLE_qos_burstdetect_maxrecords]

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
burst-detect	Show oobst burst-detect info
max-records	Show oobst burst-detect max-records
__readonly__	(Optional)
TABLE_qos_burstdetect_maxrecords	(Optional) the xml qos_burst-detect max-records configuration

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
module	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_qos_eoq_stats_class	(Optional) the xml qos_eoq_stats_class configuration
eoq-stats-class-desc	(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 inlcude config
ipg	Show whether to include IPG in Shaping/Policing config
module	(Optional) Specify a module number
module	(Optional) Specify a module number
__readonly__	(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
module	(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
module	(Optional) Specify a module number
__readonly__	(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
module	(Optional) Specify a module number
__readonly__	(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
module	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_qos_min_buffer_profile	(Optional) the xml qos_min_buffer_profile configuration
buff-prof-desc	(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
module	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_qos_ns_buffer_profile	(Optional) the xml qos_ns_buffer_profile configuration
buff-prof-desc	(Optional) buffer profile description

Command Mode

- /exec

show hardware qos ns-mcq3-alias

show hardware qos ns-mcq3-alias [module <module>] [__readonly__ TABLE_qos_ns_mcq3_alias <module> <ns-mcq3-alias-desc>]

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show QoS related information
ns-mcq3-alias	Show NS mc-queue-3 alias class selection config
module	(Optional) Specify a module number
module	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_qos_ns_mcq3_alias	(Optional) the xml qos_ns_mcq3_alias configuration
ns-mcq3-alias-desc	(Optional) selected class description

Command Mode

- /exec

show hardware rate-limiter

show hardware rate-limiter [module <module>] [layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 <l2-opts> | <opts> | f1 <f1-opts>] [__readonly__ TABLE_hardware_rate_limiter <rate-limit-class> <class-descr> <module> <rate-limit-configured> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total>]

Syntax Description

show	Show running system information
hardware	Show hardware information
rate-limiter	Show Rate-Limiter configs and statistics
layer-3	(Optional) Layer-3 control and Routed packets
l3-opts	(Optional)
multicast	(Optional) Multicast data packets
mcast-opts	(Optional)
layer-2	(Optional) Layer-2 control and Bridged packets
l2-opts	(Optional)
opts	(Optional)
f1	(Optional) Control packets from F1 modules to supervisor
f1-opts	(Optional)
module	(Optional) Specify a module number
module	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_hardware_rate_limiter	(Optional) the xml Rate-Limiter configuration and statistics
rate-limit-class	(Optional) the xml rate limiter class
class-descr	(Optional) class description
module	(Optional) the xml module number
rate-limit-configured	(Optional) the xml rate-limit-configured
rate-limit-allowed	(Optional) the xml rate-limit-allowed
rate-limit-dropped	(Optional) the xml rate-limit-dropped
rate-limit-total	(Optional) the xml rate-limit-total

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
class-id	rate-limiter class
__readonly__	(Optional)
TABLE-classRateLimiterTable	(Optional) Class Rate Limiter Table
class-id-out	(Optional) class if out
class-descr	(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
class-id	rate-limiter class
__readonly__	(Optional)
TABLE-globalRateLimiterTable	(Optional) Global Rate Limiter Table
class-id-out	(Optional) class if out
rate-limit-configured	(Optional) rate-limit-configured
rate-limit-allowed	(Optional) rate-limit-allowed
rate-limit-dropped	(Optional) rate-limit-dropped
rate-limit-total	(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
snmp-index	physical index
class-id	rate-limiter class-id
class-id	rate-limiter class
__readonly__	(Optional)
TABLE-localRateLimiterTable	(Optional) Local Rate Limiter Table
snmp-index-out	(Optional) snmp index out
class-id-out	(Optional) class if out
rate-limit-configured	(Optional) rate-limit-configured
rate-limit-configured-source	(Optional) rate-limit-configured-source
rate-limit-allowed	(Optional) rate-limit-allowed
rate-limit-dropped	(Optional) rate-limit-dropped
rate-limit-total	(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
hostname	(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)
dnslookup	(Optional) dns lookup enable status
dnsnameservice	(Optional) name service
TABLE_vrf	(Optional) vrf domain servers
vrfname	(Optional) vrf name
defaultdomains	(Optional) default domain
additionaldomainserver	(Optional) additionaldomain
domainservers	(Optional) domain server
nameservice	(Optional) name service
dhcpdomains	(Optional) dhcp domains
dhcpdomainservers	(Optional) dhcpservers
TABLE_dnsconfigvrf	(Optional) dns config vrf
dnsvrfname	(Optional) vrfname
usevrf	(Optional) usevrf
token	(Optional) token
TABLE_dnsconfigvrfconfig	(Optional) dns config vrf config
config	(Optional) token
TABLE_hosts	(Optional) all configured dns hosts
host	(Optional) xml host information
address	(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_vip_sec_v6> } <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> <sh_num_track_obj> { TABLE_grp_track_obj <sh_track_obj> <sh_track_obj_state> <sh_track_obj_prio> } <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
interface-id	(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
group-number	(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

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

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

sh_ip_redund_name_attr	(Optional) IP redundancy name attribute
show_hsrp_end	(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
id	(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
id	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
id	(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>]] [__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
interface-id	(Optional) Interface
to	(Optional) To IP address
ipaddress	(Optional) Sessions to IP address
__readonly__	(Optional)
TABLE_bfd_sess	(Optional)
interface	(Optional) Interface
list_size	(Optional) List size
src_addr	(Optional) IPv4 Source address
dst_addr	(Optional) IPv4 Destination address
ref_count	(Optional) Ref count
TABLE_ref_groups	(Optional)
ref_group_id	(Optional) Group id
TABLE_hist_groups	(Optional)
hist_group_id	(Optional) Group id
hist_operation	(Optional) Operation
hist_rel_time	(Optional) Relative time
hist_abs_time	(Optional) Absolute time
hist_ref_count	(Optional) Ref count
hist_group_state	(Optional) Group state

hist_status	(Optional) Status
hist_op_reason	(Optional) Op reason

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
interface-id	(Optional) Interface
to	(Optional) To IP address
ipaddress	(Optional) Sessions to IP address

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
interface-id	(Optional) Interface
__readonly__	(Optional)
TABLE_delay	(Optional)
interface	(Optional) Interface
min_delay	(Optional) Min delay
reload_delay	(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

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

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

Command Mode

- /exec

show hsrp mgo

show hsrp mgo [name <name> | brief]

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
mgo	Show HSRP mgo details
name	(Optional) Redundancy name string
name	(Optional) name string
brief	(Optional) show HSPR mgo brief

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
__readonly__	(Optional)
switchover_notify_rxed	(Optional) Switchover notification received (1 => active)
bfd_enabled	(Optional) BFD status
num_of_groups	(Optional) Total number of groups
num_of_v4_v1_groups	(Optional) Number of IPv4 V1 groups
num_of_v4_v2_groups	(Optional) Number of IPv4 V2 groups
num_of_v6_v2_groups	(Optional) Number of IPv6 V2 groups
num_of_active_groups	(Optional) Number of active groups
num_of_standby_groups	(Optional) Number of standby groups
num_of_listen_groups	(Optional) Number of listen groups
num_of_v6_active_groups	(Optional) Number of IPv6 active groups
num_of_v6_standby_groups	(Optional) Number of IPv6 standby groups
num_of_v6_listen_groups	(Optional) Number of IPv6 listen groups
num_of_hsrp_enabled_ifs	(Optional) Number of HSRP enabled interfaces
counter_pkts_tx	(Optional) Number of packet transmission successes
counter_pkts_tx_failure	(Optional) Number of packet transmission failure
counter_pkts_in	(Optional) Number of packets received successfully
counter_pkts_bad_vr	(Optional) Number of packets for unknown groups
counter_mts_rx	(Optional) Number of MTS messages received

Command Mode

- /exec