



## P Show Commands

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# show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ TABLE_param_list
<param_list_name> [ <param_list_var> ] [ <param_list_type> ] [ TABLE_instance <param_instance_name>
[ <param_instance_var> ] [ <param_instance_val> ] ] ]
```

## Syntax Description

show	Show running system information
param-list	Show param-list
param-list-name	(Optional) param list name
<i>plistname</i>	(Optional) Enter the name of the param-list
show-instance	(Optional) show instances for the param list
<i>__readonly__</i>	(Optional)
TABLE_param_list	(Optional)
<i>param_list_name</i>	(Optional) Parameter List Name
<i>param_list_var</i>	(Optional) Parameter Name
<i>param_list_type</i>	(Optional) Param Type
TABLE_instance	(Optional)
<i>param_instance_name</i>	(Optional) Instance Name
<i>param_instance_var</i>	(Optional) Instance Variable Name
<i>param_instance_val</i>	(Optional) Instance Variable Value

## Command Mode

- /exec

# show password secure-mode

```
show password secure-mode [ __readonly__ { secure_mode <secure_mode_status> } ]
```

## Syntax Description

show	Show running system information
password	Password for the user
secure-mode	secure mode for changing passwords
__readonly__	(Optional)
secure_mode	(Optional) run time status about xml
<i>secure_mode_status</i>	(Optional) Run time status about secure mode

## Command Mode

- /exec

# show password strength-check

```
show password strength-check [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

show	Show running system information
password	Password for the user
strength-check	Strength check of password
<i>__readonly__</i>	(Optional)
<i>operation_status</i>	(Optional) run-time information about password strength-check
<i>o_status</i>	(Optional) operational status of password strength check

## Command Mode

- /exec

# show pie broker

show pie broker { clients | subscriptions | timers | events | event-stats }

## Syntax Description

show	Show running system information
pie	Show information about pie
broker	Show information about broker
clients	Show information about pie clients
subscriptions	Show subscriptions
timers	Show all timers
events	Show all events
event-stats	Show event stats

## Command Mode

- /exec

# show pie envmon

```
show pie envmon { psu { all | <psuid> } | fan | sensor | cpu-usage | mem-usage } [ detail ] [ count <num_events> ]
```

## Syntax Description

show	Show running system information
pie	Show information about pie
envmon	Show environment monitoring insights information
psu	Show power-supply insights
all	Show all PSU insights
<i>psuid</i>	
fan	Show fan insights
sensor	Show sensor insights
cpu-usage	Show cpu usage insights
mem-usage	Show memory usage insights
detail	(Optional) Show insights details
count	(Optional) Show N number of events
<i>num_events</i>	(Optional) 0 -- Unlimited   N -- num of events

## Command Mode

- /exec



# show pie eventdb

```
show pie eventdb { all | link-flaps | link-down | link-flap-rca | link-down-rca | ssd-cur | ssd-overall | dom |
dom_db | dom_xthres | cpu-usage [ insights ] | mem-usage [ insights ] | psu [ insights ] | fan [ insights ] | sensor
[ insights ] } [ detail ] [ count <num_events> ]
```

## Syntax Description

show	Show running system information
pie	Show information about pie
eventdb	Show pie events from eventdb
all	Show all classes of events
link-flaps	Show link-flap events
link-down	Show link-down events
link-flap-rca	Show link-flap rca
link-down-rca	Show link-down rca
ssd-cur	Show SSD Current Stat events
ssd-overall	Show SSD Overall Stat events
dom	Show xcvr dom
dom_db	Show xcvr dom DB
dom_xthres	Show xcvr dom xthres
cpu-usage	Show cpu usage events
insights	(Optional) Show insights events
mem-usage	Show memory usage events
psu	Show power-supply events
fan	Show fan events
sensor	Show sensor events
detail	(Optional) Show event details
count	(Optional) Show N number of events
<i>num_events</i>	(Optional) 0 -- Unlimited   N -- num of events

## Command Mode

- /exec

# show pie eventid

show pie eventid <eventid>

## Syntax Description

show	Show running system information
pie	Show information about pie
eventid	Show information about this eventid
<i>eventid</i>	event id

## Command Mode

- /exec

# show pie interface

show pie interface <iface> { link-flap-rca | link-down-rca | transceiver-insights } [ detail ]

## Syntax Description

show	Show running system information
pie	Show information about pie
interface	Interface events
<i>iface</i>	interface
link-flap-rca	Show link-flap events
link-down-rca	Show link-down reason
transceiver-insights	Show optics health
detail	(Optional) Show event details

## Command Mode

- /exec

# show platform vnic info

```
show platform vnic info [ __readonly__ <scheme> <total-vnics> <vnics-mapped> <vnics-unmapped>
<mgmt-int-device> <mgmt-int-mac> { TABLE_linecard_info <module> <module-vnics> } ]
```

## Syntax Description

show	Show running system information
platform	Platform specific commands
vnic	Virtual Network Interface Card
info	Show general VNIC information
__readonly__	(Optional)
TABLE_linecard_info	(Optional)
<i>scheme</i>	(Optional) VNIC scheme
<i>total-vnics</i>	(Optional) Total number of VNICs
<i>vnics-mapped</i>	(Optional) Total number of VNICs mapped
<i>vnics-unmapped</i>	(Optional) Total number of VNICs unmapped
<i>mgmt-int-device</i>	(Optional) Management interface
<i>mgmt-int-mac</i>	(Optional) Management interface
<i>module</i>	(Optional) Module
<i>module-vnics</i>	(Optional) Number of VNICs mapped to this linecard

## Command Mode

- /exec

# show platform vnic mapped

```
show platform vnic mapped [ module <module-num> ] [ __readonly__ { TABLE_interface_info
<nxos-interface> <mac-address> <vnic> } ]
```

## Syntax Description

show	Show running system information
platform	Platform specific commands
vnic	Virtual Network Interface Card
mapped	Show mapped interfaces
__readonly__	(Optional)
TABLE_interface_info	(Optional)
module	(Optional) Enter a module number
<i>nxos-interface</i>	(Optional) NXOS interface
<i>mac-address</i>	(Optional) VNIC MAC-address
<i>vnic</i>	(Optional) VNIC mapping
<i>module-num</i>	(Optional) enter a module number

## Command Mode

- /exec

## show pmap-int-br interface br

```
show pmap-int-br interface br [ __readonly__ { [ TABLE_ifvlanstr <if-vlan-str> <if-status> [ <in-pmap-qos>
] [ <out-pmap-qos> ] [ <in-pmap-que> ] [ <out-pmap-que> ] ] } ]
```

### Syntax Description

show	Show running system information
pmap-int-br	Show policy maps
interface	Show service policy on interface
br	Brief report of all policies attached to interfaces
TABLE_ifvlanstr	(Optional) all interfaces xml sessions
<i>if-vlan-str</i>	(Optional) ifindex or vlan id: xml key
<i>__readonly__</i>	(Optional)
<i>if-status</i>	(Optional) Interface/vlan status [active/inactive]: xml key
<i>in-pmap-qos</i>	(Optional) Input QoS Policy-map name: xml key
<i>out-pmap-qos</i>	(Optional) output QoS Policy-map name: xml key
<i>in-pmap-que</i>	(Optional) Input Que Policy-map name: xml key
<i>out-pmap-que</i>	(Optional) Output Que Policy-map name: xml key

### Command Mode

- /exec

# show pmap-int

```
show pmap-int { interface [ <i>iface-list</i> ] [ input | output ] [ type <qos-or-q> ] [ detail ] |
```

## Syntax Description

show	Show running system information
pmap-int	Show policy maps
interface	Show service policy on interface
<i>iface-list</i>	(Optional) List of Interface
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Type of policy
<i>qos-or-q</i>	(Optional)
detail	(Optional) Detailed QoS or Queuing statistics

## Command Mode

- /exec

# show pnp lease

show pnp lease

## Syntax Description

show	Show running system information
pnp	Plug and Play
lease	Show PnP lease information

## Command Mode

- /exec



# show pnp posix\_pi configs

show pnp posix\_pi configs

## Syntax Description

show	Show running system information
pnp	Plug and Play
posix_pi	Posix PnP PI agent
configs	Posix PnP PI configuration

## Command Mode

- /exec

# show pnp posix\_pi tech-support

show pnp posix\_pi tech-support

## Syntax Description

show	Show running system information
pnp	Plug and Play
posix_pi	Posix PnP PI agent
tech-support	Technical Support

## Command Mode

- /exec

# show pnp profiles

show pnp profiles

## Syntax Description

show	Show running system information
pnp	Plug and Play
profiles	Show POSIX PnP Profile

## Command Mode

- /exec

# show pnp status

show pnp status

## Syntax Description

show	Show running system information
pnp	Plug and Play
status	Show POSIX PnP Status

## Command Mode

- /exec

# show pnp summary

show pnp summary

## Syntax Description

show	Show running system information
pnp	Plug and Play
summary	Show POSIX PnP Summary

## Command Mode

- /exec

# show pnp version

show pnp version

## Syntax Description

show	Show running system information
pnp	Plug and Play
version	Show POSIX PnP Version

## Command Mode

- /exec

# show policy-map

```
show policy-map [ { [ type qos ] [ <pmap-name-qos> ] } | { type queuing [ <pmap-name-que> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_pmap [ <pmap-key> ] [ <type-spec> ] [ <yqos-or-q> ] [ <options>
] [ <pmap-name-out> ] [ <nq-xpmap-name> ] [ <desc> ] [ <nq-desc> ] [ TABLE_cmap [ <cmap-key> ] [
<type-cmap-spec> ] [ <xqos-or-q> ] [ <cmap-name> ] [ <nq-xcmap-name> ] [ TABLE_action [ <action-key>
] [ <nq-action-key> ] [ <serv-pol-type> ] [ <serv-pol-name> ] [ <cos-list> ] [ <qos-group-list> ] [ <protocol>
] [ <nq-pause> ] [ <timeout> ] [ <nq-size-in-bytes> ] [ <nq-xoff-bytes> ] [ <nq-xon-bytes> ] [ <pfc-cos-list> ] [
<pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [
<mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] [ <inner> ] [ <dlb-disable> ] [ <cos>
] [ <exp-val-imposition> ] [ <exp-val-topmost> ] [ <dscp-enum> ] [ <dscp> ] [ <prec-enum> ] [ <prec> ] [
<disc-class> ] [ <qos-group> ] [ <tmap-from> ] [ <tmap-to> ] [ <tmap-name> ] [ <avg-rate-type> ] [ <rate-units>
] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type> ] [
<max-rate-units> ] [ <shape-max-rate> ] [ <rise-threshold-units> ] [ <fall-threshold-units> ] [ <prio-level> ]
] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <ooo> ] [ <size-units> ] [ <qlim-size> ] [ <qlim-enum-spec>
] [ <rdet-agg> ] [ <rdet-mode> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ TABLE_rdet <rdet-key> [
<rdet-values> ] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [
<rdet-weight> ] [ <rdet-cap-average> ] [ <rdet-ecn> ] [ <rdet-nonecn-mode> ] [ TABLE_rdet_nonecn
<rdet-nonecn-key> [ <rdet-nonecn-min-thresh> ] [ <rdet-nonecn-size-units> ] [ <rdet-nonecn-max-thresh> ]
] [ <rdet-nonecn-drop-prob> ] ] [ <afd-mode> ] [ TABLE_afd <afd-key> [ <afd-values> ] [ <afd-size-units> ]
] [ <afd-queue-desired> ] [ <afd-ecn> ] ] [ <pause> ] [ <size-in-bytes> ] [ <xoff-bytes> ] [ <xon-bytes> ] [
<priority-group-number> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [ <rem-bw-rate> ] [
<agg-policer-name> ] [ <cir-spec> ] [ <bc-spec> ] [ <be-spec> ] [ <cir-rate-units> ] [ <cir> ] [ <bc-size-units>
] [ <bc> ] [ <pir-rate-units> ] [ <pir> ] [ <be-size-units> ] [ <be> ] [ <cnf-col-cmap> ] [ <exc-col-cmap> ] [
TABLE_police <police-key> [ <cnf-act> ] [ <exc-act> ] [ <vio-act> ] [ <set-type> ] [ <enum-spec> ] [ <set-val>
] [ <ptmap-from> ] [ <ptmap-to> ] [ <ptmap-name> ] ] [ <burst-detect-enable> ] ] ] ] }
```

## Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
qos	(Optional) type qos
queuing	(Optional) type queuing
<i>pmap-name-qos</i>	(Optional) policy map name (type qos)
<i>pmap-name-que</i>	(Optional) policy map name (type queuing)
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_rdet	(Optional) all WRED sessions

TABLE_rdet_nonecn	(Optional) all WRED non ECN sessions
TABLE_afd	(Optional) all AFD sessions
TABLE_police	(Optional) all police actions
<i>police-key</i>	(Optional) police actions count: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
<i>nq-action-key</i>	(Optional) Actions xcount: xml key
<i>yqos-or-q</i>	(Optional)
<i>options</i>	(Optional) match-first option
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>nq-desc</i>	(Optional) Description xstring
<i>cmap-name</i>	(Optional) Class-map name
<i>nq-xpmap-name</i>	(Optional) Policy-map xname
<i>nq-xcmap-name</i>	(Optional) Class-map xname
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>protocol</i>	(Optional) protocol
<i>timeout</i>	(Optional) timeout value
<i>pf-cos-list</i>	(Optional) List of class-of-service values
<i>cc</i>	(Optional) congestion control protocol
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class



<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>queue-limit</i>	(Optional) Queue size for the class
<i>pfc_rx_only</i>	(Optional) Pause receive only mode is enabled
<i>xqos-or-q</i>	(Optional)
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>type-spec</i>	(Optional) Type of policy-map specified or not
<i>type-cmap-spec</i>	(Optional) Type of class-map specified or not
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>dlb-disable</i>	(Optional) Disable Dynamic Load Balancing
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>exp-val-imposition</i>	(Optional) MPLS EXP value of type imposition
<i>exp-val-topmost</i>	(Optional) MPLS EXP value of type topmost
<i>dscp</i>	(Optional) DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	(Optional)
<i>prec</i>	(Optional) Precedence in IP(v4) and IPv6 packets
<i>prec-enum</i>	(Optional)
<i>disc-class</i>	(Optional) Discard class
<i>qos-group</i>	(Optional) Qos-group
<i>tmap-from</i>	(Optional)
<i>tmap-to</i>	(Optional)
<i>tmap-name</i>	(Optional) Table map name
<i>ptmap-from</i>	(Optional)
<i>ptmap-to</i>	(Optional)
<i>ptmap-name</i>	(Optional) Table map name
<i>avg-rate-type</i>	(Optional) Specifies if average shape rate is specified
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us

<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>cir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>pir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-nonecn-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>afd-size-units</i>	(Optional) Units of queue size - bytes/kbytes/mbytes
<i>bc-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>be-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-mode</i>	(Optional) Random-detect mode
<i>rdet-nonecn-mode</i>	(Optional) Random-detect non-ecn mode
<i>rdet-agg</i>	(Optional) Are the params for aggregate flow
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight
<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>rdet-nonecn-drop-prob</i>	(Optional) Random-detect non-ecn drop probability
<i>afd-mode</i>	(Optional) AFD mode
<i>afd-values</i>	(Optional) List of class-of-service values for AFD
<i>afd-ecn</i>	(Optional) AFD ECN

<i>pause</i>	(Optional) Pause value
<i>nq-pause</i>	(Optional) NQ Pause value
<i>priority-group-number</i>	(Optional) Priority group value
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>agg-policer-name</i>	(Optional) Aggregate policer name
<i>cir-spec</i>	(Optional) Is CIR keyword specified
<i>bc-spec</i>	(Optional) Is Committed Burst keyword specified
<i>be-spec</i>	(Optional) Is Extended Burst keyword specified
<i>cnf-col-cmap</i>	(Optional) Conforming color class-map name
<i>exc-col-cmap</i>	(Optional) Exceeding color class-map name
<i>enum-spec</i>	(Optional) Is DSCP or PREC enum value specified
<i>cnf-act</i>	(Optional) Conform action (Police)
<i>exc-act</i>	(Optional) Exceed action (Police)
<i>vio-act</i>	(Optional) Violate action (Police)
<i>set-type</i>	(Optional) Type of set in police action
<i>set-val</i>	(Optional) Value of set type in police action
<i>ooo</i>	(Optional) Out-of-Order
<i>burst-detect-enable</i>	(Optional) Burst detect feature is enabled

### Command Mode

- /exec



<i>acc_grp_name</i>	(Optional)
redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
<i>set_vld_flg</i>	(Optional) Set valid flag
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
TABLE_slot	(Optional) all slot-num : XML output
<i>slot-no-in</i>	(Optional) input slot no
<i>slot-no-out</i>	(Optional) output slot no
<i>opt_drop_transmit_conform</i>	(Optional) Set the action

set-cos-transmit	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)
dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)

**Command Mode**

- /exec

# show policy-map system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ TABLE_xpmap <xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [
TABLE_xmatch <xmatch-key> [ <xcos-list> ] [ <xqos-group-list> ] [ <xprotocol> ] ] [ TABLE_xaction
<xaction-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes>
<xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ]
[ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [
<queue-limit> ] [ <stat-en-dis-enum> ] ] ] ] [ TABLE_pmap <pmap-key> <pmap-inner-outer> <in-or-out>
<yqos-or-q> [ <options> ] <pmap-name> [ <stat-status-enum> ] [ TABLE_cmap <cmap-key> [ <xqos-or-q>
] <match-opts> <cmap-name> [ TABLE_slot <slot-key> [ <slot-num> ] [ <class-pkts> ] [ <class-bytes> ] [
<class-off-rate> ] ] [ <class-drop-rate> ] [ <agg-forward> ] [ <class-agg-bytes> ] [ TABLE_match <match-key>
[ <not> ] [ <inner> ] [ <cos-list> ] [ <dscp-list> ] [ <exp-value-top> ] [ <protocol-name> ] [
<match-cmap-xqos-or-q> ] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE_action <action-key>
[ <set-inner> ] [ <cos> ] [ <qos-group> ] [ <serv-pol-type> ] [ <serv-pol-name> ] [ <serv-pol-return-inout> ]
[ <rate-units> ] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <max-rate-type> ] [ <max-rate-units>
] [ <shape-min-rate> ] [ <shape-max-rate> ] [ <prio-level> ] [ <qlim-param-type> ] [ <qlim-param-val> ] [
<size-units> ] [ <qlim-size> ] [ <qlim-enum-spec> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [
<rem-bw-rate> ] [ <rise-threshold-units> ] [ <fall-threshold-units> ] [ <rdet-agg> ] [ <rdet-mode> ] [
<rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ TABLE_rdet <rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [
<rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [ <rdet-cap-average> ] ] [
<rdet-ecn> ] [ <afd-mode> ] [ TABLE_afd <afd-key> [ <afd-values> ] [ <afd-size-units> ] [
<afd-queue-desired> ] [ <afd-ecn> ] ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] ] ] ] }
```

## Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
system	Active policy in the system
network-qos	(Optional) type network-qos
qos	(Optional) type qos
input2	(Optional) input policy
queuing	(Optional) type queuing
input	(Optional) input policy
output	(Optional) output policy
__readonly__	(Optional)
display-all	(Optional) Display all network-qos policy-maps
TABLE_xpmap	(Optional) all xpmap xml sessions
xpmap-name	(Optional) Policy-map name

TABLE_xcmap	(Optional) all xcmap xml sessions
<i>xcmap-name</i>	(Optional) Class-map name
TABLE_xmatch	(Optional) all match xml sessions
<i>xmatch-key</i>	(Optional) match count: xml key
<i>xcos-list</i>	(Optional) List of class-of-service values
<i>xqos-group-list</i>	(Optional) List of qos-group values
<i>xprotocol</i>	(Optional) xprotocol
TABLE_xaction	(Optional) all network-qos actions
<i>xaction-key</i>	(Optional) network-qos actions count: xml key
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
TABLE_rdet	(Optional) all WRED sessions
TABLE_afd	(Optional) all AFD sessions
<i>stat-en-dis-enum</i>	(Optional)
<i>in-or-out</i>	(Optional)
<i>yqos-or-q</i>	(Optional)
<i>stat-status-enum</i>	(Optional)
<i>desc</i>	(Optional) Description string
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>pause</i>	(Optional) Pause value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>pfc_rx_only</i>	(Optional) Pause receive only mode enabled



<i>timeout</i>	(Optional) timeout value
<i>cc</i>	(Optional) congestion control protocol
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class
<i>queue-limit</i>	(Optional) Queue size for the class
<i>protocol-name</i>	(Optional) protocol name
<i>protocol</i>	(Optional) protocol
<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>cos-list</i>	(Optional) List of class-of-service values
<i>dscp-list</i>	(Optional) List of DSCP values
<i>exp-value-top</i>	(Optional) List of MPLS exp values
<i>qos-group</i>	(Optional) QoS Group Value
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>options</i>	(Optional) match-first option
<i>pmap-name</i>	(Optional) Policy-map name
<i>pmap-inner-outer</i>	(Optional) Inner or Outer policy-map
<i>serv-pol-return-inout</i>	(Optional) Inner or Outer policy-map
<i>cmap-name</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)
<i>match-opts</i>	(Optional) Type of match in class-map
<i>match-cmap-xqos-or-q</i>	(Optional)
<i>match-cmap-opts</i>	(Optional) Type of match in class-map
<i>not</i>	(Optional) Negate this match result
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos-list</i>	(Optional) List of class-of-service values
<i>match-cmap-name</i>	(Optional) class-map name
<i>serv-pol-type</i>	(Optional) Type of service policy referred to

<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>set-inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>afd-size-units</i>	(Optional) Units of queue size - bytes/kbytes/mbytes
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-agg</i>	(Optional) Are the params for aggregate flow
<i>rdet-mode</i>	(Optional) Random-detect mode
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight
<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>afd-mode</i>	(Optional) AFD mode

<i>afd-values</i>	(Optional) List of class-of-service values for afd
<i>afd-ecn</i>	(Optional) AFD ECN
<i>pause</i>	(Optional) Pause value
<i>slot-num</i>	(Optional) the slot number
<i>agg-forward</i>	(Optional) prints out aggregate forward
TABLE_slot	(Optional) all slot xml sessions
<i>slot-key</i>	(Optional) slot count: xml key

**Command Mode**

- /exec

# show policy-map type control-plane

```

show policy-map type control-plane [ expand ] [ { name <pmap-name> } ] [ __readonly__ [ { TABLE_pmap
<pmap-name1> [ { TABLE_cmap <cmap-name> [ <opt_any_or_all> ] [ TABLE_match [ <match_key> ] {
[ access_grp <acc_grp_name> + ] [ redirect <opt_match_redirect> ] [ exception <opt_match_except> + ] [
protocol <opt_match_protocol> ] } } ] [ TABLE_set_action <set_vld_flg> { { cos [ inner ] <cos-val> } | {
dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ percent <cir-perc> ] [ <pir>
<opt_kbps_mbps_gbps_pps_pir> ] [ percent1 <pir-perc> ] [ <bc> <opt_kbytes_mbytes_gbytes_bc> ] [ <be>
<opt_kbytes_mbytes_gbytes_be> ] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> }
| { set-dscp-transmit <set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ { <opt_drop_transmit_exceed>
} | { set dscp1 dscp2 table cir-markdown-map } ] [ { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4
table1 pir-markdown-map } ] ] ] ] ]
  
```

### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
control-plane	command is for copp policy
expand	(Optional) Display the match-criterias along with class-map
name	(Optional) policy-map name
<i>pmap-name</i>	(Optional) Name of the Policy-map
<i>__readonly__</i>	(Optional)
TABLE_pmap	(Optional) Table of policy-map
<i>pmap-name1</i>	(Optional) Name of the Policy-map
TABLE_cmap	(Optional) Table of class-map
<i>cmap-name</i>	(Optional) Name of the class-map
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
TABLE_match	(Optional) Table of match statement
<i>match_key</i>	(Optional) Match key : XML output
access_grp	(Optional)
<i>acc_grp_name</i>	(Optional)
redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets

exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
TABLE_set_action	(Optional) Table of set action
<i>set_vld_flg</i>	(Optional) Set valid flag
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)

dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags

**Command Mode**

- /exec

## show policy-map type network-qos

```
show policy-map type network-qos [ <pmap-name-nq> ] [ __readonly__ { [ <display-all> ] [ TABLE_xpmap
<xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [ TABLE_xmatch <xmatch-key> [ <xcos-list>
] [ <xqos-group-list> ] [ <xprotocol> ] ] [ TABLE_action <action-key> [ <cos-list> ] [ <qos-group-list> ] [
<protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [
<pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [
<mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] ] ] ] }
```

### Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
<i>pmap-name-nq</i>	(Optional) Policy-map name
network-qos	type network-qos
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
TABLE_xpmap	(Optional) all xpmap xml sessions
<i>xpmap-name</i>	(Optional) Policy-map name
TABLE_xcmap	(Optional) all xcmap xml sessions
<i>xcmap-name</i>	(Optional) Class-map name
TABLE_xmatch	(Optional) all match xml sessions
<i>xmatch-key</i>	(Optional) match count: xml key
<i>xcos-list</i>	(Optional) List of class-of-service values
<i>xqos-group-list</i>	(Optional) List of qos-group values
<i>xprotocol</i>	(Optional) xprotocol
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
<i>desc</i>	(Optional) Description string
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
<i>protocol</i>	(Optional) protocol

<i>pause</i>	(Optional) Pause value
<i>timeout</i>	(Optional) timeout value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>cc</i>	(Optional) congestion control protocol
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>dpp</i>	(Optional) Dynamic Packet Prioritization Class
<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>queue-limit</i>	(Optional) Queue size for the class
<i>pfc_rx_only</i>	(Optional) Pause receive only mode is enabled

**Command Mode**

- /exec



# show port-channel capacity

show port-channel capacity [ *\_\_readonly\_\_* <total> <used> <free> <percentage\_used> ]

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
capacity	Capacity information
<i>__readonly__</i>	(Optional)
<i>total</i>	(Optional) Total resource
<i>used</i>	(Optional) Used resource
<i>free</i>	(Optional) Free resource
<i>percentage_used</i>	(Optional) Used resource in percentage

## Command Mode

- /exec

# show port-channel compatibility-parameters

```
show port-channel compatibility-parameters [ __readonly__ { TABLE_compatibility <parameter> <description> } + ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
compatibility-parameters	Show compatibility parameters
<i>__readonly__</i>	(Optional)
<i>TABLE_compatibility</i>	(Optional) Port-channel compatibility table
<i>parameter</i>	(Optional) Compatibility parameter
<i>description</i>	(Optional) Parameter description

## Command Mode

- /exec

## show port-channel database

```
show port-channel database [ interface <if0> ] [ __readonly__ TABLE_interface <interface>
<last-membership-update> <total-ports> <total-up-ports> [ <first_operational-port> ] <age-of-channel> [
<time-since-last-bundle> ] [ <last-bundled-member> ] [ <time-since-last-unbundle> ] [
<last-unbundled-member> ] [ { TABLE_member <port> <mode> <port-status> } ] [ <protocol> ] ]
```

### Syntax Description

show	Show running system information
port-channel	Show port-channel information
database	Show port-channel database
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port-channel table
<i>interface</i>	(Optional) Port channel
<i>mode</i>	(Optional) channel-group mode
<i>last-membership-update</i>	(Optional) Last membership update
<i>total-ports</i>	(Optional) Total number of member ports
<i>total-up-ports</i>	(Optional) Total number of UP member ports
<i>first_operational-port</i>	(Optional) First operational port
TABLE_member	(Optional) Member ports info
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status
<i>age-of-channel</i>	(Optional) Age of port channel
<i>time-since-last-bundle</i>	(Optional) Time since last port bundled
<i>last-bundled-member</i>	(Optional) Last bundled member port
<i>time-since-last-unbundle</i>	(Optional) Time since last port un-bundled
<i>last-unbundled-member</i>	(Optional) Last unbundled member port
<i>protocol</i>	(Optional) Port channel protocol

### Command Mode

show port-channel database

- /exec

# show port-channel fast-convergence

show port-channel fast-convergence [ \_\_readonly\_\_ { port-channel fast-convergence <fastconvergence> } ]

## Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
fast-convergence	Show port-channel fast-convergence status
__readonly__	(Optional)
<i>fastconvergence</i>	(Optional) port channel fast convergence enable/disable

## Command Mode

- /exec

# show port-channel load-balance

```
show port-channel load-balance { [ module <module> ] | { fex { all } } } [ __readonly__ [ <sys-cfg> ] + [ <sys-cfg-sel> ] [ { <module-cfg> } ] + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> [ <ipv6-val> ] [ <ipv4-encap> ] { TABLE_mod_configs [ <mod-number> ] <mod-non-ip-val> <mod-non-ip-sel> <mod-ipv4-val> <mod-ipv4-sel> [ <mod-ipv4-encap> ] } ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
load-balance	Show port-channel load balance
module	(Optional) slot
<i>module</i>	(Optional) Specify a module number
fex	FEX devices
all	Display all configured FEX port-channel LB
<u>__readonly__</u>	(Optional)
<i>sys-cfg</i>	(Optional) system wide load balance configuraton
<i>sys-cfg-sel</i>	(Optional) system config
<i>module-cfg</i>	(Optional) per module load balance configuraton
<i>non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>non-ip-sel</i>	(Optional) non ip select
<i>ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>ipv4-sel</i>	(Optional) ip select
<i>ipv6-val</i>	(Optional) load balance setting for ipv6 traffic
<i>ipv4-encap</i>	(Optional) encapsulation
TABLE_mod_configs	(Optional) module configurations
<i>mod-number</i>	(Optional) module number
<i>mod-non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>mod-non-ip-sel</i>	(Optional) non ip select
<i>mod-ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>mod-ipv4-sel</i>	(Optional) ip select

<i>mod-ipv4-encap</i>	(Optional) encapsulation
-----------------------	--------------------------

**Command Mode**

- /exec

# show port-channel load-balance forwarding-path1 interface src-interface

```
show port-channel load-balance forwarding-path1 interface <ch-id> src-interface <src-if> { vlan <vlan-id> |
src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6
<dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ether-type <ethertype> | ip-prot <prot> }
+ [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

## Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
forwarding-path1	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
vlan	VLAN - for dot1Q tagged packets at ingress
<i>vlan-id</i>	VLAN ID
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IP address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source Port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination Port
<i>l4-dst-port</i>	Destination L4 port



ether-type	Ethernet Type
<i>ethertype</i>	Ethernet Type
src-interface	Optional source interface (physical switch port only)
<i>src-if</i>	Interface name
ip-proto	IP v4/v6 Protocol
<i>prot</i>	IP Protocol
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) port

**Command Mode**

- /exec

## show port-channel load-balance forwarding-path interface

```
show port-channel load-balance forwarding-path { interface <ch-id> | hgig } { src-interface <src-if> | vlan
<vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> |
dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype> | protocol
<prot> | gtp-teid <gtp-teid> | ipv6-flow-label <ipv6-flow-label> } + [ module <module> | fex <fex-range> |
hgig-tgid <tgid> ] + [ source-interface <if-id> ] [ __readonly__ { loadbalance-algorithm <algorithm> } {
outgoing-port-id <port> } ]
```

### Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
forwarding-path	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
hgig	Higig hashing result (only with RTAG7)
vlan	VLAN of the ingress packet i.e. when available
<i>vlan-id</i>	
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source L4 port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination l4 port

<i>l4-dst-port</i>	Destination L4 port
ethertype	Ethertype of the packet stream
<i>ethertype</i>	
src-interface	Optional source interface (physical switch port only)
<i>src-if</i>	Interface name
source-interface	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>if-id</i>	(Optional) Interface name
protocol	Protocol
<i>prot</i>	
gtp-teid	gtp-teid
<i>gtp-teid</i>	gtp-teid
ipv6-flow-label	ipv6-flow-label
<i>ipv6-flow-label</i>	ipv6-flow-label
module	(Optional) Module #
<i>module</i>	(Optional)
fex	(Optional) FEX devices
<i>fex-range</i>	(Optional) FEX device range
hgig-tgid	(Optional) Hgig #
<i>tgid</i>	(Optional)
<u>__readonly__</u>	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) load balance algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) outgoing port-id

**Command Mode**

- /exec

# show port-channel load-balance hardware forwarding-path interface source

```
show port-channel load-balance hardware forwarding-path { interface <ch-id> | hgig } { source-interface <if-id> } { vlan <vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype> | protocol <prot> } + [ module <module> | fex <fex-range> | hgig-tgid <tgid> ] [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

## Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
hardware	ASIC hardware based information
forwarding-path	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
hgig	Higig hashing result (only with RTAG7)
source-interface	Source interface - Required paramter
<i>if-id</i>	Interface name
vlan	VLAN of the ingress packet i.e. when available
<i>vlan-id</i>	
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address

l4-src-port	Source L4 port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination l4 port
<i>l4-dst-port</i>	Destination L4 port
ethertype	Ethertype of the packet stream
<i>ethertype</i>	
protocol	Protocol
<i>prot</i>	
module	(Optional) Module #
<i>module</i>	(Optional)
fex	(Optional) FEX devices
<i>fex-range</i>	(Optional) FEX device range
hgig-tgid	(Optional) Hgig #
<i>tgid</i>	(Optional)
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) load balance algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) outgoing port-id

**Command Mode**

- /exec

## show port-channel rbh-distribution

```
show port-channel rbh-distribution [ interface <if0> ] [ __readonly__ TABLE_channel <chan-id> <port> {
<rbh> } + <num_of_buckets> ]
```

### Syntax Description

show	Show running system information
port-channel	Show port-channel information
rbh-distribution	Show RBH distribution for member ports
interface	(Optional) Specify a port-channel interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chan-id</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>num_of_buckets</i>	(Optional) Channel ID
<i>rbh</i>	(Optional) Channel ID

### Command Mode

- /exec

## show port-channel scale-fanout

```
show port-channel scale-fanout [ __readonly__ { port-channel high-density <scalefanout> } ]
```

### Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
scale-fanout	Enable/disable port-channel scale-fanout when ports span more than 16 ASIC units
__readonly__	(Optional)
high-density	(Optional) port channel high density
<i>scalefanout</i>	(Optional) port channel scale fanout enable/disable

### Command Mode

- /exec

# show port-channel summary

```
show port-channel [ extended-list ] summary [ interface <if0> | controller ] [ __readonly__ TABLE_channel
<group> <port-channel> <layer> <status> <type> <prtcl> [ { TABLE_member <port> <port-status> } ] ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
extended-list	(Optional) Show port-channels from extended range
summary	Show port-channel summary
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
controller	(Optional) Show controller configured port-channels
__readonly__	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>group</i>	(Optional) Channel group number
<i>port-channel</i>	(Optional) Port channel
<i>type</i>	(Optional) Channel type
<i>prtcl</i>	(Optional) Channel protocol
<i>status</i>	(Optional) Channel status
<i>layer</i>	(Optional) Channel layer info
TABLE_member	(Optional) Member table
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status

## Command Mode

- /exec



# show port-channel traffic

```
show port-channel traffic [ interface <if0> ] [ __readonly__ TABLE_channel <chanId> <port> <rx-ucst>
<tx-ucst> <rx-mcst> <tx-mcst> <rx-bcst> <tx-bcst> ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
traffic	Show port-channel traffic statistics
__readonly__	(Optional)
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chanId</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>rx-ucst</i>	(Optional) Received unicast
<i>tx-ucst</i>	(Optional) Transmitted unicast
<i>rx-mcst</i>	(Optional) Received multicast
<i>tx-mcst</i>	(Optional) Transmitted multicast
<i>rx-bcst</i>	(Optional) Received broadcast
<i>tx-bcst</i>	(Optional) Transmitted broadcast

## Command Mode

- /exec

# show port-channel usage

```
show port-channel usage [ __readonly__ <total-channel-number-used> { <used-range-low> [ <used-range-hi>
] } + { <unused-range-low> [ <unused-range-hi> ] } + ]
```

## Syntax Description

show	Show running system information
port-channel	Show port-channel information
usage	Show port-channel number usage
<i>__readonly__</i>	(Optional)
<i>total-channel-number-used</i>	(Optional) Total used number of port-channels
<i>used-range-low</i>	(Optional) Used range low end value
<i>used-range-hi</i>	(Optional) Used range high end value
<i>unused-range-low</i>	(Optional) Un-used range low end value
<i>unused-range-hi</i>	(Optional) Un-used range high end value

## Command Mode

- /exec

# show port-license

```
show port-license [ __readonly__ <consumed_port_licenses> [ TABLE_portlicense <interface> <cookie> <port_activation_license> ] ]
```

## Syntax Description

show	Show running system information
port-license	Show port license information
<i>__readonly__</i>	(Optional)
<i>consumed_port_licenses</i>	(Optional) Consumed port licenses
TABLE_portlicense	(Optional) port and licenses
<i>interface</i>	(Optional) interface name
<i>cookie</i>	(Optional) cookie
<i>port_activation_license</i>	(Optional) license state

## Command Mode

- /exec

# show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile_all <profile_name> [
<profile_id> ] <type> [ <desc> ] [ <status> ] [ <max_ports> ] [ <min_ports> ] [ <inherit> ] [ <profile_cfg> ]
+ [ <cmd_depth> ] [ <cmd_key> ] [ <parent_seqno> ] [ <cmd_seqno> ] [ <cmd_attr> ] [ <form_type> ] [
<cmd_mask> ] [ <shadow_cmd> ] [ <cmd_flags> ] [ <eval_cfg> ] + [ <intf> ] + [ <cap_l3> ] [ <cap_iscsi>
] [ <ctrl_sgid> ] [ <pkt_sgid> ] [ <sys_vlans> ] [ <portgrp> ] [ <pprole> ] [ <port_binding> ] ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile_all	(Optional)
<i>profile_name</i>	(Optional)
<i>profile_id</i>	(Optional)
<i>type</i>	(Optional)
<i>desc</i>	(Optional)
<i>status</i>	(Optional)
<i>max_ports</i>	(Optional)
<i>min_ports</i>	(Optional)
<i>inherit</i>	(Optional)
<i>profile_cfg</i>	(Optional)
<i>cmd_depth</i>	(Optional)
<i>cmd_key</i>	(Optional)
<i>parent_seqno</i>	(Optional)
<i>cmd_seqno</i>	(Optional)
<i>cmd_attr</i>	(Optional)
<i>form_type</i>	(Optional)
<i>cmd_mask</i>	(Optional)
<i>shadow_cmd</i>	(Optional)

<i>cmd_flags</i>	(Optional)
<i>eval_cfg</i>	(Optional)
<i>intf</i>	(Optional)
<i>cap_l3</i>	(Optional) L3 Profile
<i>cap_iscsi</i>	(Optional) iSCSI cap
<i>ctrl_sgid</i>	(Optional) Control Vlan Pinned Sgid
<i>pkt_sgid</i>	(Optional) Packet Vlan Pinned Sgid
<i>sys_vlans</i>	(Optional) System Vlans
<i>portgrp</i>	(Optional) VMware Portgroup
<i>pprole</i>	(Optional) Port-profile Role
<i>port_binding</i>	(Optional) Port-binding

**Command Mode**

- /exec

# show port-profile brief

```
show port-profile brief [ __readonly__ { TABLE_port_profile [ <profile_name> ] [ <type> ] [ <status> ] [
<profile_cfg_cnt> ] [ <eval_cfg_cnt> ] [ <intf_cnt> ] [ <inherit_cnt> ] [ <header_flag> ] } { TABLE_intf_count
[ <intf_type> ] [ <intf_count> ] [ <tot_header_flag> ] } ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
brief	Brief info about profiles
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
TABLE_port_profile	(Optional)
<i>type</i>	(Optional)
<i>status</i>	(Optional)
<i>profile_cfg_cnt</i>	(Optional)
<i>eval_cfg_cnt</i>	(Optional)
<i>intf_cnt</i>	(Optional)
<i>inherit_cnt</i>	(Optional)
<i>header_flag</i>	(Optional)
TABLE_intf_count	(Optional)
<i>intf_type</i>	(Optional)
<i>intf_count</i>	(Optional)
<i>tot_header_flag</i>	(Optional)

## Command Mode

- /exec

## show port-profile expand-interface

```
show port-profile expand-interface [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile
<profile_name> [ TABLE_interface <intf> [ <intf_cfg> ] + ] ]
```

### Syntax Description

show	Show running system information
port-profile	Show port-profile
expand-interface	Active profile config applied in a interface
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile	(Optional)
<i>profile_name</i>	(Optional)
TABLE_interface	(Optional)
<i>intf</i>	(Optional)
<i>intf_cfg</i>	(Optional)

### Command Mode

- /exec

## show port-profile sync-status

```
show port-profile sync-status [ interface <intfname> ] [ __readonly__ <intf> + [ <inherit> ] <status> + [ <sync_status> ] [ <cached_cmds> ] [ <errors> ] [ <recovery> ] ]
```

### Syntax Description

show	Show running system information
port-profile	Show port-profile
sync-status	Interfaces out-of-sync with port-profiles
interface	(Optional) Interface name
<i>intfname</i>	(Optional) Name of interface
<i>__readonly__</i>	(Optional)
<i>intf</i>	(Optional)
<i>status</i>	(Optional)
<i>inherit</i>	(Optional)
<i>sync_status</i>	(Optional)
<i>cached_cmds</i>	(Optional)
<i>errors</i>	(Optional)
<i>recovery</i>	(Optional)

### Command Mode

- /exec



# show port-profile usage

```
show port-profile usage [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile <profile_name>
[ TABLE_interface <interface> ] ]
```

## Syntax Description

show	Show running system information
port-profile	Show port-profile
usage	List of interfaces inherited a profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile	(Optional)
TABLE_interface	(Optional)
<i>profile_name</i>	(Optional)
<i>interface</i>	(Optional)

## Command Mode

- /exec

# show port-security

```
show port-security [ __readonly__ [ <total_addr> ] [ <max_sys_limit> ] [ { TABLE_eth_port_sec_interfaces
<secure_port> <port_state> <max_secure_addr> <security_violation> <security_action> <current_addr>
<num_val> <num_elems> <cmdid_show_index> } ] ]
```

## Syntax Description

port-security	Show secure port information
<i>__readonly__</i>	(Optional)
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
TABLE_eth_port_sec_interfaces	(Optional) Displays the secured interfaces
<i>secure_port</i>	(Optional) Interface Index
<i>port_state</i>	(Optional) Port security enabled or disabled
<i>max_secure_addr</i>	(Optional) Maximum number of secured MAC addresses
<i>security_violation</i>	(Optional) Number of security violations
<i>security_action</i>	(Optional) Security Action Shutdown/Restrict/Protect
<i>current_addr</i>	(Optional) Number of secured MAC addresses
<i>num_val</i>	(Optional) Number of Values
<i>num_elems</i>	(Optional) Number of Elements
<i>cmdid_show_index</i>	(Optional) Index for the Interfaces

## Command Mode

- /exec

## show port-security address

```
show port-security address [ __readonly__ [ <total_addr> ] [ <max_sys_limit> ] [ {
TABLE_eth_port_sec_mac_addrs <if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt>
<remote_aged> <num_elems> <cmd_addr_index> } ] ]
```

### Syntax Description

port-security	Show secure port information
address	Show secure address
<i>__readonly__</i>	(Optional)
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>mac_addr</i>	(Optional) mac address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address

### Command Mode

- /exec

## show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addr
<if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt> <remote_aged> <num_elems>
<cmd_addr_index> } [ <total_addr> ] [ <max_sys_limit> ] [ <first> ] ]
```

### Syntax Description

port-security	Show secure port information
address	Show secure address
interface	Show secure interface
<i>interface-id</i>	ethernet
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_mac_addr	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>mac_addr</i>	(Optional) mac address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>cmd_addr_index</i>	(Optional) Index for the interface address
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
<i>first</i>	(Optional) To identify the first entry

### Command Mode

- /exec

## show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <port_status> <config_port_security>
<oper_port_security> <violation_mode> <aging_time> <aging_type> <max_mac_addr> <total_sec_addrs>
<conf_num_addrs> <num_sticky_addrs> <trap_count> ]
```

### Syntax Description

<code>port-security</code>	Show secure port information
<code>interface</code>	Show secure interface
<i>interface-id</i>	ethernet
<code>__readonly__</code>	(Optional)
<i>port_status</i>	(Optional) Secure Up/Down
<i>config_port_security</i>	(Optional) Port Security configuration is Enabled/Disabled
<i>oper_port_security</i>	(Optional) Port Security is Operationally Enabled/Disabled
<i>violation_mode</i>	(Optional) Shutdown/Restrict/Protect
<i>aging_time</i>	(Optional) Aging time in minutes
<i>aging_type</i>	(Optional) Absolute/Inactivity
<i>max_mac_addr</i>	(Optional) Configured Maximum
<i>total_sec_addrs</i>	(Optional) Total number of secured MAC addresses
<i>conf_num_addrs</i>	(Optional) Number of configured MAC addresses
<i>num_sticky_addrs</i>	(Optional) Number of sticky MAC addresses
<i>trap_count</i>	(Optional) Trap Count

### Command Mode

- /exec

# show port-security state

show port-security state [ \_\_readonly\_\_ <status> ]

## Syntax Description

port-security	Port security related command
state	port security state
__readonly__	(Optional)
<i>status</i>	(Optional) show port-security

## Command Mode

- /exec

# show port led-status module

show port <port\_num> led-status module <module>

## Syntax Description

show	Show running system information
port	port
<i>port_num</i>	port number
led-status	led-status of the port
module	module
<i>module</i>	module number

## Command Mode

- /exec

# show port naming

show port naming

## Syntax Description

show	Show running system information
port	Show port information
naming	Show port naming information

## Command Mode

- /exec



## show postcard-telemetry exporter

```
show postcard-telemetry exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <seq_num> ]
```

### Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
exporter	Show POSTCARD Exporter Configuration
name	(Optional) Show a specific POSTCARD Exporter
<i>exportername</i>	(Optional) Specify an exporter
<i>__readonly__</i>	(Optional)
<i>exporter</i>	(Optional)
<i>description</i>	(Optional)
<i>dest</i>	(Optional)
<i>vrf</i>	(Optional)
<i>vrf_id</i>	(Optional)
<i>vrf_resolved</i>	(Optional)
<i>dest_udp</i>	(Optional)
<i>source_intf</i>	(Optional)
<i>source_ip</i>	(Optional)
<i>seq_num</i>	(Optional)

### Command Mode

- /exec

# show postcard-telemetry flow-profile

```
show postcard-telemetry flow-profile [ name ] [ <flow-profilename> ] [ __readonly__ <flow-profile>
<description> <age> <latency> ]
```

## Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
flow-profile	Show POSTCARD flow Profile Configuration
name	(Optional) Show a specific POSTCARD flow Profile
<i>flow-profilename</i>	(Optional) Specify an flow Profile
<i>__readonly__</i>	(Optional)
<i>flow-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>age</i>	(Optional)
<i>latency</i>	(Optional)

## Command Mode

- /exec

# show postcard-telemetry monitor

```
show postcard-telemetry monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor>
<use_count> <description> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist> ]
```

## Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
monitor	Show Monitor Configuration
name	(Optional) Show a specific POSTCARD Monitor
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>event</i>	(Optional)
<i>exporter</i>	(Optional)
<i>bucket_id</i>	(Optional)
<i>src_addr</i>	(Optional)
<i>dest_addr</i>	(Optional)
<i>watchlist</i>	(Optional)

## Command Mode

- /exec

## show postcard-telemetry queue-profile

```
show postcard-telemetry queue-profile [ name ] [ <queue-profilename> ] [ __readonly__ <queue-profile>
<description> <depth> <latency> ]
```

### Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
queue-profile	Show POSTCARD Queue Profile Configuration
name	(Optional) Show a specific POSTCARD Queue Profile
<i>queue-profilename</i>	(Optional) Specify an Queue Profile
<i>__readonly__</i>	(Optional)
<i>queue-profile</i>	(Optional)
<i>description</i>	(Optional)
<i>depth</i>	(Optional)
<i>latency</i>	(Optional)

### Command Mode

- /exec

# show postcard-telemetry sessions

show postcard-telemetry sessions [ <monitorname> ] [ \_\_readonly\_\_ <monitor> ]

## Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
sessions	Show Session Configuration
<i>monitorname</i>	(Optional) Specify a monitor
<i>__readonly__</i>	(Optional)
<i>monitor</i>	(Optional)

## Command Mode

- /exec

# show postcard-telemetry watchlist

```
show postcard-telemetry watchlist [ name ] [ { <watchlistname> } ] [ __readonly__ <watchlist> <use_count>
<description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip>
<ace_dip_len> ]
```

## Syntax Description

show	Show running system information
postcard-telemetry	Show POSTCARD information
watchlist	Show watchlist Configuration
name	(Optional) Show the configuration for a specific POSTCARD Record
<i>watchlistname</i>	(Optional) Specify a watchlist
<i>__readonly__</i>	(Optional)
<i>watchlist</i>	(Optional)
<i>use_count</i>	(Optional)
<i>description</i>	(Optional)
<i>num_aces</i>	(Optional)
<i>ace_seq_num</i>	(Optional)
<i>ace_action</i>	(Optional)
<i>ace_type</i>	(Optional)
<i>ace_sip</i>	(Optional)
<i>ace_sip_len</i>	(Optional)
<i>ace_dip</i>	(Optional)
<i>ace_dip_len</i>	(Optional)

## Command Mode

- /exec

# show power inline

```
show power inline <if0> [ __readonly__ { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr>
<del_pwr> <device> <class> <max> } ]
```

## Syntax Description

show	Show running system information
power	Power over Ethernet
<i>if0</i>	
<i>__readonly__</i>	(Optional)
TABLE_intf_info	(Optional) Interface information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>supp_pwr</i>	(Optional) Supplied power
<i>del_pwr</i>	(Optional) delivered power
<i>device</i>	(Optional) Device information
<i>class</i>	(Optional) POE Class
<i>max</i>	(Optional) Max power

## Command Mode

- /exec

# show power inline

```
show power inline [ __readonly__ { TABLE_fex_info <module_id> <avail_pwr> <used_pwr> <rem_pwr>
} { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr> <del_pwr> <device> <class> <max> } ]
```

## Syntax Description

show	Show running system information
power	Power over Ethernet
__readonly__	(Optional)
TABLE_fex_info	(Optional) FEX information
<i>module_id</i>	(Optional) FEX id
<i>avail_pwr</i>	(Optional) Available power
<i>used_pwr</i>	(Optional) Used power
<i>rem_pwr</i>	(Optional) Free power
TABLE_intf_info	(Optional) Interface information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>supp_pwr</i>	(Optional) Supplied power
<i>del_pwr</i>	(Optional) delivered power
<i>device</i>	(Optional) Device information
<i>class</i>	(Optional) POE Class
<i>max</i>	(Optional) Max power

## Command Mode

- /exec



## show power inline detail

```
show power inline <inf> detail [ __readonly__ { TABLE_intf_detail <intf> <power_mode> <oper_status>
<device_det> <dev_type> <ieee_class> <disc_mech> <police_action> <interface_pri> <power_admin_value>
<power_drawn_src> <power_avail_dev> <consump_at_port> <power_drawn_dev> <absent_count>
<over_curr_count> <short_curr_count> <inv_sign_count> <power_denied_count> <four_pair_support>
<spare_pair_support> } ]
```

### Syntax Description

show	Show running system information
power	Power over Ethernet
<i>inf</i>	
detail	PoE details
__readonly__	(Optional)
TABLE_intf_detail	(Optional) Interface Details
<i>intf</i>	(Optional) Interface
<i>power_mode</i>	(Optional) Inline Power Mode
<i>oper_status</i>	(Optional) Operational status
<i>device_det</i>	(Optional) Device Detected status
<i>dev_type</i>	(Optional) Device Type
<i>ieee_class</i>	(Optional) IEEE Class
<i>disc_mech</i>	(Optional) Discovery mechanism used/configured
<i>police_action</i>	(Optional) Policer action
<i>interface_pri</i>	(Optional) Interface Priority
<i>power_admin_value</i>	(Optional) Admin value
<i>power_drawn_src</i>	(Optional) Power drawn from the source
<i>power_avail_dev</i>	(Optional) Power available to the device
<i>consump_at_port</i>	(Optional) Measured at the port
<i>power_drawn_dev</i>	(Optional) Maximum Power drawn by the device since powered on
<i>absent_count</i>	(Optional) Absent Counter
<i>over_curr_count</i>	(Optional) Over Current Counter
<i>short_curr_count</i>	(Optional) Short Current Counter

<i>inv_sign_count</i>	(Optional) Invalid Signature Counter
<i>power_denied_count</i>	(Optional) Power Denied Counter
<i>four_pair_support</i>	(Optional) Four-Pair PoE Supported
<i>spare_pair_support</i>	(Optional) Spare Pair Power Enabled

**Command Mode**

- /exec

# show power inline police

```
show power inline police [ __readonly__ { TABLE_police <intf_name> <admin> <oper> <admin_police>
<oper_police> <cutoff_pwr> <oper_pwr> } ]
```

## Syntax Description

show	Show running system information
power	Power over Ethernet
police	Show per-port policing
<i>__readonly__</i>	(Optional)
<i>TABLE_police</i>	(Optional) Police information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>admin_police</i>	(Optional) Configured admin police
<i>oper_police</i>	(Optional) Current police
<i>cutoff_pwr</i>	(Optional) Cutoff power
<i>oper_pwr</i>	(Optional) Oper power

## Command Mode

- /exec

# show power inline priority

show power inline priority [ *\_\_readonly\_\_* { *TABLE\_priority* <intf\_name> <admin> <oper> <priority> } ]

## Syntax Description

show	Show running system information
power	Power over Ethernet
priority	Show per-port priority
<i>__readonly__</i>	(Optional)
<i>TABLE_priority</i>	(Optional) Port priority information
<i>intf_name</i>	(Optional) Interface name
<i>admin</i>	(Optional) Port mode
<i>oper</i>	(Optional) Oper mode
<i>priority</i>	(Optional) port priority

## Command Mode

- /exec

# show processes

```
show processes [ __readonly__ { [ TABLE_processes <pid> <state> <pc> <start_cnt> <tty> <p_type>
<process> ] } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
__readonly__	(Optional)
TABLE_processes	(Optional) all process information
<i>pid</i>	(Optional) process id
<i>state</i>	(Optional) process state
<i>pc</i>	(Optional) pc register
<i>start_cnt</i>	(Optional) TBD
<i>tty</i>	(Optional) TBD
<i>p_type</i>	(Optional) process type
<i>process</i>	(Optional) process name

## Command Mode

- /exec

# show processes cpu

```
show processes cpu [ sort ] [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked> <usecs>
<oneseq> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] [ <fivesec_percent> ] [
<fivesec_intr_percent> ] [ <onemin_percent> ] [ <fivemin_percent> ] } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
sort	(Optional) Show processes CPU Info (Sorted by Cpu Util with time base)
__readonly__	(Optional)
TABLE_process_cpu	(Optional) all process memory
<i>pid</i>	(Optional) process id
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) usecs
<i>oneseq</i>	(Optional) fivesec
<i>process</i>	(Optional) name of the process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle
<i>fivesec_percent</i>	(Optional) five seconds cpu percent
<i>fivesec_intr_percent</i>	(Optional) five seconds interrupt percent
<i>onemin_percent</i>	(Optional) one minute cpu percent
<i>fivemin_percent</i>	(Optional) five minute cpu percent

## Command Mode

- /exec

# show processes cpu history

show processes cpu history

## Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History

## Command Mode

- /exec

## show processes cpu history data

```
show processes cpu history data [ __readonly__ { [ TABLE_processes_cpu_history <cpu_avg_sec> ] } ]
```

### Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History
data	Display the CPU util as data, instead of graph
<code>__readonly__</code>	(Optional)
TABLE_processes_cpu_history	(Optional) 60 sec cpu history
<i>cpu_avg_sec</i>	(Optional) cpu avg for a sec

### Command Mode

- /exec



# show processes cpu module

```
show processes cpu module <i0> [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked>
<usecs> <oneseq> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] [ <fivesec_percent>
] [ <fivesec_intr_percent> ] [ <onemin_percent> ] [ <fivemin_percent> ] } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
module	processes CPU Info
<i>i0</i>	module number
<i>__readonly__</i>	(Optional)
<i>TABLE_process_cpu</i>	(Optional) all process memory
<i>pid</i>	(Optional) process id
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) usecs
<i>oneseq</i>	(Optional) oneseq
<i>process</i>	(Optional) name of the process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle
<i>fivesec_percent</i>	(Optional) five seconds cpu percent
<i>fivesec_intr_percent</i>	(Optional) five seconds interrupt percent
<i>onemin_percent</i>	(Optional) one minute cpu percent
<i>fivemin_percent</i>	(Optional) five minute cpu percent

## Command Mode

- /exec

# show processes log

```
show processes log [ __readonly__ { [ TABLE_processes_log <vdc> <process> <pid> <normal_exit> <stack>
<core> <create_time> ] } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
<i>__readonly__</i>	(Optional)
<i>TABLE_processes_log</i>	(Optional) all processes log
<i>vdc</i>	(Optional) vdc
<i>process</i>	(Optional) vdc process name
<i>pid</i>	(Optional) pid
<i>normal_exit</i>	(Optional) process exit
<i>stack</i>	(Optional) stack
<i>core</i>	(Optional) core
<i>create_time</i>	(Optional) log create time

## Command Mode

- /exec

# show processes log details

```
show processes log details [ __readonly__ { line_in_log_detail <line_in_file> } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
details	Show detail of all logs with stack
<i>__readonly__</i>	(Optional)
<i>line_in_log_detail</i>	(Optional)
<i>line_in_file</i>	(Optional) each line

## Command Mode

- /exec

# show processes log pid

```
show processes log pid <i0> [ __readonly__ { TABLE_line_in_log_pid <line_in_file> } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i0</i>	pid of the process
<code>__readonly__</code>	(Optional)
TABLE_line_in_log_pid	(Optional)
<i>line_in_file</i>	(Optional) each line

## Command Mode

- /exec

# show processes log vdc-all

```
show processes log vdc-all [ __readonly__ { [ TABLE_processes_log_vdc_all <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

## Syntax Description

TABLE_processes_log_vdc_all	(Optional) all processes log vdc all
show	Show running system information
processes	Show processes
log	Show information about process logs
vdc-all	Show information about process logs in all vdc's
__readonly__	(Optional)
vdc	(Optional) vdc process name
process	(Optional) vdc process name
pid	(Optional) process id
normal_exit	(Optional) process exit
stack	(Optional) stack
core	(Optional) core
create_time	(Optional) log create time

## Command Mode

- /exec

# show processes memory

```
show processes memory [ __readonly__ { TABLE_process_memory <mem_pid> <mem_alloc> <mem_limit>
<mem_used> <stack_base_ptr> <process> } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

## Command Mode

- /exec

# show processes memory physical

```
show processes memory physical [ __readonly__ { TABLE_process_physical_memory <processid> <virtual>
<physical> <rss> <processname> } ]
```

## Syntax Description

show	Show running system information
processes	Show processes
memory	Show processes Memory Info
physical	Show processes physical Memory
__readonly__	(Optional)
TABLE_process_physical_memory	(Optional) all process physical memory
<i>processid</i>	(Optional) process id
<i>virtual</i>	(Optional) virtual allocated memory
<i>physical</i>	(Optional) physical memory used
<i>rss</i>	(Optional) rss memory
<i>processname</i>	(Optional) name of the process

## Command Mode

- /exec

# show processes memory shared

```
show processes memory shared [ detail | dynamic ] [ __readonly__ TABLE_process_tag [ <process-tag-out>
] [ <process-memory-share-dynamic-component-str> ] [ <process-memory-share-dynamic-shared-memory-str>
] [ <process-memory-share-dynamic-current-size-str> ] [ <process-memory-share-dynamic-max-size-str> ]
] [ <process-memory-share-dynamic-used-str> ] [ <process-memory-share-component-str> ] [
<process-memory-share-shared-memory-str> ] [ <process-memory-share-size-str> ] [
<process-memory-share-used-str> ] [ <process-memory-share-available-str> ] [ <process-memory-share-ref-str>
] [ <process-memory-share-byte-set-address-str> ] [ <process-memory-share-byte-set-count-str> ] [
<process-memory-share-address-str> ] [ <process-memory-share-kbytes-1-str> ] [
<process-memory-share-kbytes-2-str> ] [ <process-memory-share-kbytes-3-str> ] [
<process-memory-share-count-str> ] [ { TABLE_SMMITEM <process-memory-share-smr-name> } ] [ {
TABLE_SHOWPROC <process-memory-share-table-showproc-key> [ { TABLE_SHOWONEDYNAMIC
[ <process-memory-share-component> ] [ <process-memory-share-shared-memory> ] [
<process-memory-share-current-size> ] [ <process-memory-share-max-size> ] [ <process-memory-share-used>
] ] ] [ { TABLE_ONEITEM [ <process-memory-share-proc-smr-name> ] [ <process-memory-share-smr-addr>
] [ <process-memory-share-smr-size> ] [ <process-memory-share-smr-star-char> ] [
<process-memory-share-smr-empty-char> ] [ <process-memory-share-smr-used> ] [
<process-memory-share-smr-avail> ] [ <process-memory-share-smr-ref-count> ] [
<process-memory-share-dynamic-smr-name> } ] ] [ { TABLE_ONEITEMDYNAMIC [
<process-memory-share-dynamic-smr-addr> ] [ <process-memory-share-dynamic-smr-size> ] [
<process-memory-share-dynamic-plus-char> ] [ <process-memory-share-max-mem-size-str> ] [
<process-memory-share-dynamic-smr-used> ] [ <process-memory-share-dynamic-smr-avail> ] [
<process-memory-share-dynamic-smr-ref-count> ] [ <process-memory-share-region-smr-name> } ] ] ] [
<process-memory-share-total-shm-size> ] [ <process-memory-share-total-shm-used> ] [
<process-memory-share-total-shm-avail> ] ] ]
```

## Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
shared	Display shared memory info
detail	(Optional) Display shared memory in bytes instead of default kbytes
dynamic	(Optional) Display details of dynamic shared memory segments
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>process-memory-share-dynamic-component-str</i>	(Optional)
<i>process-memory-share-dynamic-shared-memory-str</i>	(Optional)
<i>process-memory-share-dynamic-current-size-str</i>	(Optional)



<i>process-memory-share-dynamic-max-size-str</i>	(Optional)
<i>process-memory-share-dynamic-used-str</i>	(Optional)
<i>process-memory-share-component-str</i>	(Optional)
<i>process-memory-share-shared-memory-str</i>	(Optional)
<i>process-memory-share-size-str</i>	(Optional)
<i>process-memory-share-used-str</i>	(Optional)
<i>process-memory-share-available-str</i>	(Optional)
<i>process-memory-share-ref-str</i>	(Optional)
<i>process-memory-share-byte-set-address-str</i>	(Optional)
<i>process-memory-share-byte-set-count-str</i>	(Optional)
<i>process-memory-share-address-str</i>	(Optional)
<i>process-memory-share-kbytes-1-str</i>	(Optional)
<i>process-memory-share-kbytes-2-str</i>	(Optional)
<i>process-memory-share-kbytes-3-str</i>	(Optional)
<i>process-memory-share-count-str</i>	(Optional)
TABLE_SMMITEM	(Optional)
<i>process-memory-share-smr-name</i>	(Optional)
TABLE_SHOWPROC	(Optional)
<i>process-memory-share-table-showproc-key</i>	(Optional)
TABLE_SHOWONEDYNAMIC	(Optional)
<i>process-memory-share-component</i>	(Optional)
<i>process-memory-share-shared-memory</i>	(Optional)
<i>process-memory-share-current-size</i>	(Optional)
<i>process-memory-share-max-size</i>	(Optional)
<i>process-memory-share-used</i>	(Optional)
TABLE_ONEITEM	(Optional)
<i>process-memory-share-proc-smr-name</i>	(Optional)
<i>process-memory-share-smr-addr</i>	(Optional)
<i>process-memory-share-smr-size</i>	(Optional)

<i>process-memory-share-smr-star-char</i>	(Optional)
<i>process-memory-share-smr-empty-char</i>	(Optional)
<i>process-memory-share-smr-used</i>	(Optional)
<i>process-memory-share-smr-avail</i>	(Optional)
<i>process-memory-share-smr-ref-count</i>	(Optional)
TABLE_ONEITEMDYNAMIC	(Optional)
<i>process-memory-share-dynamic-smr-name</i>	(Optional)
<i>process-memory-share-dynamic-smr-addr</i>	(Optional)
<i>process-memory-share-dynamic-smr-size</i>	(Optional)
<i>process-memory-share-dynamic-plus-char</i>	(Optional)
<i>process-memory-share-max-mem-size-str</i>	(Optional)
<i>process-memory-share-dynamic-smr-used</i>	(Optional)
<i>process-memory-share-dynamic-smr-avail</i>	(Optional)
<i>process-memory-share-dynamic-smr-ref-count</i>	(Optional)
<i>process-memory-share-region-smr-name</i>	(Optional)
<i>process-memory-share-total-shm-size</i>	(Optional)
<i>process-memory-share-total-shm-used</i>	(Optional)
<i>process-memory-share-total-shm-avail</i>	(Optional)

**Command Mode**

- /exec

# show processes vdc

```
show processes vdc <e-vdc2> [ __readonly__ { TABLE_processes_vdc <pid> <state> <pc> <start_cnt> <tty>
<p_type> <process> } ]
```

## Syntax Description

<i>show</i>	Show running system information
<i>processes</i>	Show processes
<i>vdc</i>	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_processes_vdc</i>	(Optional) All process information
<i>pid</i>	(Optional) PID of process
<i>state</i>	(Optional) State of process
<i>pc</i>	(Optional) PC in which process exists
<i>start_cnt</i>	(Optional) TBD
<i>tty</i>	(Optional) TBD
<i>p_type</i>	(Optional) Type of Process
<i>process</i>	(Optional) Process Name

## Command Mode

- /exec

# show processes vdc cpu

```
show processes vdc <e-vdc2> cpu [ __readonly__ [ TABLE_process_vdc_cpu <pid> <runtime> <invoked>
<usecs> <onesec> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] [ <fivesec_percent>
] [ <fivesec_intr_percent> ] [ <onemin_percent> ] [ <fivemin_percent> ] ]
```

## Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
cpu	Show processes CPU Info
<i>__readonly__</i>	(Optional) Readonly table for cpu log
TABLE_process_vdc_cpu	(Optional) All cpu process logs of vdc
<i>pid</i>	(Optional) PID of process
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) uSecs
<i>onesec</i>	(Optional) fivesec
<i>process</i>	(Optional) Name of process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle
<i>fivesec_percent</i>	(Optional) five seconds cpu percent
<i>fivesec_intr_percent</i>	(Optional) five seconds interrupt percent
<i>onemin_percent</i>	(Optional) one minute cpu percent
<i>fivemin_percent</i>	(Optional) five minute cpu percent

## Command Mode

- /exec

## show processes vdc log

```
show processes vdc <e-vdc2> log [ __readonly__ { [ TABLE_processes_vdc_log <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

### Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
<i>__readonly__</i>	(Optional) Read only table
<i>TABLE_processes_vdc_log</i>	(Optional) Table for log of all VDC Processes
<i>pid</i>	(Optional) PID of process
<i>vdc</i>	(Optional) VDC Number
<i>process</i>	(Optional) Process name
<i>normal_exit</i>	(Optional) Normal Exit status
<i>stack</i>	(Optional) Stack
<i>core</i>	(Optional) Core
<i>create_time</i>	(Optional) Time stamp of log

### Command Mode

- /exec

# show processes vdc log details

show processes vdc <e-vdc2> log details

## Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
details	Show detail of all logs with stack

## Command Mode

- /exec

# show processes vdc log pid

show processes vdc <e-vdc2> log pid <i1>

## Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i1</i>	pid of the process

## Command Mode

- /exec

## show processes vdc memory

```
show processes vdc <e-vdc2> memory [ __readonly__ { [ TABLE_process_memory <mem_pid> <mem_alloc>
<mem_limit> <mem_used> <stack_base_ptr> <process> ] [ <sum_mem_malloced> ] } ]
```

### Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

### Command Mode

- /exec



# show pss debug

show pss debug

## Syntax Description

show	Show running system information
pss	display pss information
debug	display pss debug configuration

## Command Mode

- /exec

# show ptp brief

```
show ptp brief [ __readonly__ <gptp-flag> [ TABLE_ptp <ptp-ifindex> <state> [ <dot1as-capable> ] ]
<ptp-end> ]
```

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
brief	port states in brief
__readonly__	(Optional) Read Only
<i>gptp-flag</i>	(Optional) GPTP mode
TABLE_ptp	(Optional) ptp table
<i>ptp-ifindex</i>	(Optional) ptp ifindex
<i>state</i>	(Optional) BMC state
<i>dot1as-capable</i>	(Optional) Dot1AS capable
<i>ptp-end</i>	(Optional) End of table

## Command Mode

- /exec

## show ptp clock

```
show ptp clock [ __readonly__ <clock-id> <domain-id> <num-ports> <priority1> <priority2> <class>
<accuracy> <scaled-log-variance> <offset-from-master> <mean-path-delay-to-master> <steps-removed>
<device-type> <encap> <slave-clock-oper> <master-clock-oper> <src-ip> <src-ipv6> <slave-only> [
<correction-threshold> ] [ <mean-path-delay-threshold> ] [ <gmTimeBaseIndicator> ] [
<last_gm_phase_change> ] [ <master_cum_scaled_rate_offset> ] [ <scaled_last_gm_freq_change> ] [
<cum_scaled_rate_offset> ] <local-clock-time> [ <bs-status> ] <clock-state> [ <asymmetric-delay-direction>
] [ <asymmetric-delay-value> ] ]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock	Set local clock attributes
<i>__readonly__</i>	(Optional) Read only
<i>domain-id</i>	(Optional) Domain Id
<i>clock-id</i>	(Optional) Clock Id
<i>priority1</i>	(Optional) Priority 1
<i>priority2</i>	(Optional) Priority 2
<i>num-ports</i>	(Optional) Number of PTP ports
<i>class</i>	(Optional) Class
<i>accuracy</i>	(Optional) Clock accuracy
<i>scaled-log-variance</i>	(Optional) scaled log variance
<i>offset-from-master</i>	(Optional) Offset from master
<i>mean-path-delay-to-master</i>	(Optional) mean path delay to master
<i>steps-removed</i>	(Optional) Steps removed
<i>device-type</i>	(Optional) Device Type
<i>encap</i>	(Optional) Encapsulation
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source (in layer-3 encapsulation)
<i>slave-clock-oper</i>	(Optional) Slave clock operation
<i>master-clock-oper</i>	(Optional) Master clock operation
<i>slave-only</i>	(Optional) Slave-only mode
<i>correction-threshold</i>	(Optional) correction-threshold
<i>mean-path-delay-threshold</i>	(Optional) mean-path-delay threshold

<i>gmTimeBaseIndicator</i>	(Optional) time base indicator for current GM
<i>last_gm_phase_change</i>	(Optional) time difference of current and previous GM
<i>master_cum_scaled_rate_offset</i>	(Optional) cumulative scaled rate offset received from master
<i>scaled_last_gm_freq_change</i>	(Optional) scaled last GM frequency change
<i>cum_scaled_rate_offset</i>	(Optional) cumulative scaled rate offset
<i>local-clock-time</i>	(Optional) Local clock time
<i>bs-status</i>	(Optional) Broadsync status enable/disable
<i>clock-state</i>	(Optional) PTP clock state
<i>asymmetric-delay-direction</i>	(Optional) PTP asymmetric delay direction
<i>asymmetric-delay-value</i>	(Optional) PTP asymmetric delay compensation time(ns)

### Command Mode

- /exec

## show ptp clock foreign-masters record

```
show ptp clock foreign-masters record [ interface <if0> ] [ __readonly__ [ TABLE_ptp <interface-name>
<clock-id> <priority1> <priority2> <class> <accuracy> <scaled-log-variance> <steps-removed> <is-gm> ]
<ptp-end> ]
```

### Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>clock</code>	Set local clock attributes
<code>foreign-masters</code>	foreign-masters
<code>record</code>	record
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>interface-name</code>	(Optional) interface name
<code>clock-id</code>	(Optional) Clock Id
<code>priority1</code>	(Optional) Priority 1
<code>priority2</code>	(Optional) Priority 2
<code>class</code>	(Optional) Class
<code>accuracy</code>	(Optional) Clock accuracy
<code>scaled-log-variance</code>	(Optional) scaled log variance
<code>steps-removed</code>	(Optional) Steps removed
<code>is-gm</code>	(Optional) Is Grandmaster
<code>ptp-end</code>	(Optional) End of table

### Command Mode

- /exec

# show ptp corrections

```
show ptp corrections [ entries <val> ] [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time>
<correction-val> <mean-path-delay> ] <ptp-end> ]
```

## Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>__readonly__</code>	(Optional) Read Only
<code>corrections</code>	Display last few corrections
<code>entries</code>	(Optional) Latest entries to display
<code>val</code>	(Optional) Number of latest entries to display
<code>ptp-header</code>	(Optional) Start of table
<code>TABLE_ptp</code>	(Optional) ptp table
<code>intf-name</code>	(Optional) interface name
<code>sup-time</code>	(Optional) sup time
<code>correction-val</code>	(Optional) correction value
<code>ptp-end</code>	(Optional) End of table

## Command Mode

- /exec

## show ptp cost

```
show ptp cost [ interface <if0> ] [ __readonly__ [ TABLE_ptp <ptp-ifindex> <cost> ] <ptp-end> ]
```

### Syntax Description

<i>ptp</i>	Precision Time Protocol (IEEE 1588) Subsystem
<i>cost</i>	port costs
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_ptp</i>	(Optional) ptp table
<i>ptp-ifindex</i>	(Optional) ptp ifindex
<i>cost</i>	(Optional) cost
<i>ptp-end</i>	(Optional) End of table

### Command Mode

- /exec

## show ptp counters interface

```
show ptp counters { interface <if0> | all } [ { detail | ipv4 <ip> | ipv6 <ip6> } ] [ __readonly__ [ TABLE_ptp
<interface_name> [ <accepted-ip> ] <tx-announce-pkts> <rx-announce-pkts> <tx-sync-pkts> <rx-sync-pkts>
<tx-follow-up-pkts> <rx-follow-up-pkts> <tx-delay-req-pkts> <rx-delay-req-pkts> <tx-delay-resp-pkts>
<rx-delay-resp-pkts> <tx-pdelay-req-pkts> <rx-pdelay-req-pkts> <tx-pdelay-resp-pkts> <rx-pdelay-resp-pkts>
<tx-pdelay-follow-up-pkts> <rx-pdelay-follow-up-pkts> [ <tx-mgmt-pkts> ] [ <rx-mgmt-pkts> ] [ <tx-sig-pkts>
] [ <rx-sig-pkts> ] ] <ptp-end> ]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
counters	Display PTP packet counters
interface	Enter the port interface
all	Displays all information
<i>if0</i>	
detail	(Optional) Show detail
ipv4	(Optional) IPv4 address for the stat info
<i>ip</i>	(Optional) IPv4 address (A.B.C.D)
ipv6	(Optional) IPv6 address for the stat info
<i>ip6</i>	(Optional) IPv6 address (A:B::C:D)
TABLE_ptp	(Optional) ptp table
<i>interface_name</i>	(Optional) interface name
<i>accepted-ip</i>	(Optional) Accepted IP in unicast mode
<i>ptp-end</i>	(Optional) End of table

### Command Mode

- /exec



# show ptp delay summary

```
show ptp delay summary [ __readonly__ [ TABLE_ptp <intf-name-port> <device-type> <state> <link-delay>
] [ <ptp-end> ] [ <gtp-not-supported> ] ]
```

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
delay	delay
summary	summary
__readonly__	(Optional) Read only
TABLE_ptp	(Optional) ptp table
<i>intf-name-port</i>	(Optional) interface name and port
<i>device-type</i>	(Optional) Device Type
<i>state</i>	(Optional) BMC state
<i>link-delay</i>	(Optional) link delay
<i>ptp-end</i>	(Optional) End of table
<i>gtp-not-supported</i>	(Optional) GPTP not supported

## Command Mode

- /exec

## show ptp domain data

```
show ptp domain data [ __readonly__ [ TABLE_ptp <multidom_cap> <gm_cap> <gm_convergence_time>
<def_dom> <transition_priority1> <transition_priority2> [ TABLE_ptp_domain <domain_number>
<domain_priority> <ptp_clock_class_threshold> <ptp_clock_accuracy_threshold> [ TABLE_ptp_ifindex
<ptp-ifindex> ] ] ] <ptp-end> ]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp domain number
data	ptp domain data
__readonly__	(Optional) Read Only
TABLE_ptp	(Optional) ptp table
<i>multidom_cap</i>	(Optional) Multidomain state ENABLED/DISABLED
<i>gm_cap</i>	(Optional) GM state ENABLE/DISABLED
<i>gm_convergence_time</i>	(Optional) ptp grandmaster convergence time
<i>def_dom</i>	(Optional) ptp default domain
<i>transition_priority1</i>	(Optional) ptp multi-domain transition priority1
<i>transition_priority2</i>	(Optional) ptp multi-domain transition priority2
TABLE_ptp_domain	(Optional)
<i>domain_number</i>	(Optional) ptp domain number
<i>domain_priority</i>	(Optional) ptp domain priority
<i>ptp_clock_class_threshold</i>	(Optional) ptp domain class
<i>ptp_clock_accuracy_threshold</i>	(Optional) ptp domain accuracy
TABLE_ptp_ifindex	(Optional)
<i>ptp-ifindex</i>	(Optional) ptp ifindex
<i>ptp-end</i>	(Optional) End of table

### Command Mode

- /exec

# show ptp interface domain

```
show ptp interface domain [ __readonly__ [ TABLE_ptp <ptp-ifindex> <interface-domain> ] <ptp-end> ]
```

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
interface	port
domain	ptp port domain
__readonly__	(Optional) Read Only
TABLE_ptp	(Optional) ptp table
<i>ptp-ifindex</i>	(Optional) ptp ifindex
<i>interface-domain</i>	(Optional) ptp port domain
<i>ptp-end</i>	(Optional) End of table

## Command Mode

- /exec

# show ptp packet-trace

```
show ptp packet-trace [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time> <pkt_dir>
<pkt_type> <pkt_info> ] <ptp-end> ]
```

## Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
packet-trace	Display last few pkt traces
<i>ptp-header</i>	(Optional) Start of table
TABLE_ptp	(Optional) ptp table
<i>intf-name</i>	(Optional) interface name
<i>sup-time</i>	(Optional) sup time
<i>pkt_dir</i>	(Optional) pkt_dir
<i>pkt_type</i>	(Optional) pkt_type
<i>pkt_info</i>	(Optional) pkt_info
<i>ptp-end</i>	(Optional) End of table

## Command Mode

- /exec

## show ptp parent

```
show ptp parent [ __readonly__ <clock-id> <port-num> <obs-parent-offset> <obs-parent-clk-phase-chg> [
<parent-ip> ] <gm-id> <gm-class> <gm-accuracy> <gm-scaled-log-variance> <gm-priority1> <gm-priority2>
[ TABLE-path-trace <path-trace-index> <path-trace-clock-id> ] ]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
parent	parent clock
__readonly__	(Optional) Read only
<i>clock-id</i>	(Optional) Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>obs-parent-offset</i>	(Optional) observed parent offset
<i>obs-parent-clk-phase-chg</i>	(Optional) observed parent clock phase change
<i>parent-ip</i>	(Optional) Parent clock IP
<i>gm-id</i>	(Optional) Grandmaster Id
<i>gm-class</i>	(Optional) Class
<i>gm-accuracy</i>	(Optional) Clock accuracy
<i>gm-scaled-log-variance</i>	(Optional) scaled log variance
<i>gm-priority1</i>	(Optional) GM Priority 1
<i>gm-priority2</i>	(Optional) GM Priority 2
TABLE-path-trace	(Optional) ptp path trace table
<i>path-trace-index</i>	(Optional) Clock Identity index
<i>path-trace-clock-id</i>	(Optional) Clock Identity in path trace

### Command Mode

- /exec

## show ptp port interface

```
show ptp port interface <if0> [ __readonly__ [ TABLE_ptp <intf-name> <clock-id> <port-num> <version>
[ <transport-mode> ] [ <accepted-ip> ] <state> <vlan> <delay-req-intv> <ann-rx-tout> <peer-mean-path-delay>
<ann-intv> <sync-intv> <delay-mechanism> [ <peer-delay-req-intv> ] [ <device-type> ] [ <encap> ] [
<prop-delay-thresh> ] [ <neighbor-rate-ratio> ] <cost> <int-domain-id> ] <ptp-end> ]
```

### Syntax Description

<i>ptp</i>	Precision Time Protocol (IEEE 1588) Subsystem
<i>port</i>	port
<i>interface</i>	Enter the port interface
<i>if0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_ptp</i>	(Optional) ptp table
<i>intf-name</i>	(Optional) interface name
<i>clock-id</i>	(Optional) Port ID: Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>version</i>	(Optional) version
<i>transport-mode</i>	(Optional) Transport mode
<i>accepted-ip</i>	(Optional) Accepted IPs
<i>state</i>	(Optional) BMC state
<i>vlan</i>	(Optional) Vlan
<i>delay-req-intv</i>	(Optional) log mean delay req interval
<i>ann-rx-tout</i>	(Optional) announce receipt timeout
<i>peer-mean-path-delay</i>	(Optional) peer mean path delay
<i>ann-intv</i>	(Optional) announce interval
<i>sync-intv</i>	(Optional) sync interval
<i>delay-mechanism</i>	(Optional) delay mechanism
<i>peer-delay-req-intv</i>	(Optional) peer delay req interval
<i>device-type</i>	(Optional) Device Type
<i>encap</i>	(Optional) Encapsulation

<i>prop-delay-thresh</i>	(Optional) propagation delay threshold
<i>neighbor-rate-ratio</i>	(Optional) Neighbor rate-ratio
<i>cost</i>	(Optional) Cost
<i>int-domain-id</i>	(Optional) domain id
<i>ptp-end</i>	(Optional) End of Table

**Command Mode**

- /exec

## show ptp time-property

```
show ptp time-property [ __readonly__ <current-utc-offset-valid> <current-utc-offset> <leap-59> <leap-61>
<time-traceable> <freq-traceable> <ptp-timescale> <time-source> ]
```

### Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
time-property	time property
__readonly__	(Optional) Read only
<i>current-utc-offset-valid</i>	(Optional) current_utc_offset_valid
<i>current-utc-offset</i>	(Optional) current_utc_offset
<i>leap-59</i>	(Optional) leap-59
<i>leap-61</i>	(Optional) leap-61
<i>time-traceable</i>	(Optional) time-traceable
<i>freq-traceable</i>	(Optional) freq-traceable
<i>ptp-timescale</i>	(Optional) ptp-timescale
<i>time-source</i>	(Optional) time-source

### Command Mode

- /exec



# show ptp unicast-negotiation

```
show ptp unicast-negotiation [ interface <if0> ] [ __readonly__ [ TABLE_ptp <interface-name> <ip-addr>
<status> <clock-id> ] <ptp-end> ]
```

## Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>unicast-negotiation</code>	unicast-negotiation
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>interface-name</code>	(Optional) Interface name
<code>ip-addr</code>	(Optional) IP address
<code>status</code>	(Optional) Status
<code>clock-id</code>	(Optional) Clock Id
<code>ptp-end</code>	(Optional) End of table

## Command Mode

- /exec

show ptp unicast-negotiation