



## S Show Commands

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# show san-port-channel compatibility-parameters

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

## Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
compatibility-parameters	Show san-port-channel compatibility-parameters
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_compatibility_params</i>	(Optional) Table with compatibility params
<i>parameter</i>	(Optional) Compatibility parameter
<i>description</i>	(Optional) Parameter description

## Command Mode

- /exec

# show san-port-channel consistency

```
show san-port-channel consistency [ __readonly__ [ <msg> ] [ { [ <error_msg> ] [ <consistency_state> ] [
<module> ] [ { TABLE_inconsistent_database [ <database> ] [ { [ <total_port_channels> ] [ {
TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ {
TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> } ] } ] } ] } ] }
```

## Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
consistency	Show san-port-channel distributed database consistency
<i>__readonly__</i>	(Optional) Read Only
<i>msg</i>	(Optional) Message string
<i>error_msg</i>	(Optional) Prints consistency errors, if any
<i>consistency_state</i>	(Optional) Consistency state
<i>module</i>	(Optional) Module no
TABLE_inconsistent_database	(Optional) Table with details of inconsistent dbs
<i>database</i>	(Optional) Inconsistent database
TABLE_san_port_channel_database	(Optional) san-po Table
<i>total_port_channels</i>	(Optional) Total port channels
<i>interface</i>	(Optional) san-port-channel interface
<i>first_operational_port</i>	(Optional) First oper port in san-po
<i>total_ports</i>	(Optional) Total number of ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>db_error_str</i>	(Optional) prints cmd errors, if any

## Command Mode

- /exec



## show san-port-channel consistency detail

```
show san-port-channel consistency detail [ __readonly__ [ <sup_total_port_channels> ] [ { [ <sup_db_error_str> ] [ { TABLE_sup_san_port_channel_database <sup_interface> [ <sup_total_ports> ] [ <sup_first_operational_port> ] [ { TABLE_sup_san_port_channel_member <sup_port> <sup_state> } ] } ] } ] [ <msg> ] [ { [ <error_msg> ] [ <db_index> ] [ <module> ] [ { [ <total_port_channels> ] [ { TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ { TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> ] } ] } ] } ] [ <consistency_state> ] ]
```

### Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
consistency	Show san-port-channel distributed database consistency
detail	Show san-port-channel distributed databases of all modules
__readonly__	(Optional) Read Only
sup_total_port_channels	(Optional) Authoritative po db - Total POs
TABLE_sup_san_port_channel_database	(Optional) Table with details of auth po db
sup_interface	(Optional) san-port-channel interface
sup_first_operational_port	(Optional) First oper port in san-po
sup_total_ports	(Optional) Total number of ports in the san-po
TABLE_sup_san_port_channel_member	(Optional) san-po member Table
sup_port	(Optional) san-po member port
sup_state	(Optional) san-po member port state
sup_db_error_str	(Optional) prints cmd errors, if any
msg	(Optional) Msg string
error_msg	(Optional) Prints errors, if any
db_index	(Optional) Database index
module	(Optional) Module no
total_port_channels	(Optional) Authoritative po db - Total POs
TABLE_san_port_channel_database	(Optional) Table with details of auth po db
interface	(Optional) san-port-channel interface
first_operational_port	(Optional) First oper port in san-po

<i>total_ports</i>	(Optional) Total number of ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>db_error_str</i>	(Optional) prints cmd errors, if any
<i>consistency_state</i>	(Optional) Consistency state

**Command Mode**

- /exec

## show san-port-channel database

```
show san-port-channel database [ interface <ifid> | all ] [ __readonly__ [ <error_str> ] [ {
TABLE_san_port_channel_database <interface> <admin_chan_mode> <oper_chan_mode>
<last_membership_update> [ <last_membership_update_fail_reason> ] [ <pcm_interface_flag> ] [
<vlan_interfaces> ] [ <first_operational_port> ] [ <total_ports> ] [ <total_oper_ports> ] [ {
TABLE_san_port_channel_member <port> <state> } } ] [ <cmd_error_str> ] ]
```

### Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
database	Show san-port-channel database
interface	(Optional) Specify a port-channel
<i>ifid</i>	(Optional)
all	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
<i>__readonly__</i>	(Optional) Read Only
<i>error_str</i>	(Optional) Prints errors,if any
TABLE_san_port_channel_database	(Optional) san-port-channel database Table
<i>interface</i>	(Optional) san-po Interface
<i>admin_chan_mode</i>	(Optional) san-po administrative channel mode
<i>oper_chan_mode</i>	(Optional) san-po operational channel mode
<i>last_membership_update</i>	(Optional) Last membership update status
<i>last_membership_update_fail_reason</i>	(Optional) Membership update status casue
<i>pcm_interface_flag</i>	(Optional) san-po interface flag
<i>vlan_interfaces</i>	(Optional) san-po vlan interfaces
<i>first_operational_port</i>	(Optional) First oper port in san-po
<i>total_ports</i>	(Optional) Total number of ports in the san-po
<i>total_oper_ports</i>	(Optional) Total oper ports in the san-po
TABLE_san_port_channel_member	(Optional) san-po member Table
<i>port</i>	(Optional) san-po member port
<i>state</i>	(Optional) san-po member port state
<i>cmd_error_str</i>	(Optional) prints cmd errors,if any

**Command Mode**

- /exec

## show san-port-channel summary

```
show san-port-channel summary [ __readonly__ [ { TABLE_san_port_channel_summary <interface>
<total_ports> <total_oper_ports> <first_operational_port> } ] [ <cmd_error_str> ] ]
```

### Syntax Description

<code>show</code>	Show running system information
<code>san-port-channel</code>	Show san-port-channel information
<code>summary</code>	Show san-port-channel summary
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_san_port_channel_summary</code>	(Optional) san-port-channel Summary Table
<code>interface</code>	(Optional) san-po Interface
<code>total_ports</code>	(Optional) Total number of ports in the san-po
<code>total_oper_ports</code>	(Optional) Total oper ports in the san-po
<code>first_operational_port</code>	(Optional) First oper port in san-po
<code>cmd_error_str</code>	(Optional) Prints cmd error,if any

### Command Mode

- /exec

## show san-port-channel usage

```
show san-port-channel usage [ __readonly__ [ <total_channel_numbers_used> { <used_range> } + {
<unused_range> } + ] [ <error_str> ] ]
```

### Syntax Description

show	Show running system information
san-port-channel	Show san-port-channel information
usage	Show san-port-channel usages
<i>__readonly__</i>	(Optional) Read Only
<i>total_channel_numbers_used</i>	(Optional) Total used number of port-channels
<i>used_range</i>	(Optional) Used range
<i>unused_range</i>	(Optional) Un-used range
<i>error_str</i>	(Optional) Prints error if any

### Command Mode

- /exec

## show scheduler config

```
show scheduler config [ __readonly__ [ <terminal> ] [ <feature> ] [ <logfilesize> ] [ <emailfrom> ] [
<emailreplyto> ] [ <smtpserver> ] [ <port> ] [ <usevrf> ] [ { TABLE_userconfig <username> [ <password>
} ] ] [ { TABLE_jobconfig <jobdata> } ] [ { TABLE_scheduleconfig <schedulename> [ <scheduletype> ] [
{ TABLE_jobs <status> } ] [ <email> } ] ] ]
```

### Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
config	Display scheduler config
<i>__readonly__</i>	(Optional)
<i>terminal</i>	(Optional) logfile terminal
<i>feature</i>	(Optional) name service
<i>logfilesize</i>	(Optional) logfilesize
<i>emailfrom</i>	(Optional) emailfrom
<i>emailreplyto</i>	(Optional) emailreplyto
<i>smtpserver</i>	(Optional) smtpserver
<i>port</i>	(Optional) port
<i>usevrf</i>	(Optional) usevrf
TABLE_userconfig	(Optional) userconfig
<i>username</i>	(Optional) username
<i>password</i>	(Optional) password
TABLE_jobconfig	(Optional) job configs
<i>jobdata</i>	(Optional) jobdata
TABLE_scheduleconfig	(Optional) schedule configs
<i>schedulename</i>	(Optional) schedulename
<i>scheduletype</i>	(Optional) scheduletype
TABLE_jobs	(Optional) jobs
<i>status</i>	(Optional) status
<i>email</i>	(Optional) email

**Command Mode**

- /exec



# show scheduler job

```
show scheduler job [ name <s0> ] [ __readonly__ [ { TABLE_schedulerjobs <jobname> [ <jobdata> ] } ] ]
```

## Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
job	Display job information
name	(Optional) Specify the name of job
s0	(Optional) Specify the job name
__readonly__	(Optional)
TABLE_schedulerjobs	(Optional) schedulerjobs
jobname	(Optional) job name
jobdata	(Optional) job data

## Command Mode

- /exec

# show scheduler logfile

```
show scheduler logfile [ __readonly__ [ { TABLE_joblog <jobname> [ <jobstatus> ] [ <schedulename> ] [ <scheduleusername> ] [ <completiontime> ] [ <joboutput> ] } ] ]
```

## Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
logfile	Display scheduler job output log
<i>__readonly__</i>	(Optional)
<i>TABLE_joblog</i>	(Optional) jobs log
<i>jobname</i>	(Optional) job name
<i>jobstatus</i>	(Optional) job status
<i>schedulename</i>	(Optional) schedulename
<i>scheduleusername</i>	(Optional) scheduleusername
<i>completiontime</i>	(Optional) completiontime
<i>joboutput</i>	(Optional) joboutput

## Command Mode

- /exec

# show scheduler schedule

```
show scheduler schedule [ name <s0> ] [ __readonly__ [ { TABLE_schedules <schedulename> [
<scheduleusername> ] [ <scheduletype> ] [ <starttime> ] [ <lastexecetime> ] [ <lastcompletiontime> ] [
<execcount> ] [ <jobcount> ] [ { TABLE_jobs <jobname> [ <execstatus> ] } } ] ] ]
```

## Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
schedule	Display schedule information
name	(Optional) Specify the name of schedule
<i>s0</i>	(Optional) Specify the schedule name
<i>__readonly__</i>	(Optional)
TABLE_schedules	(Optional) schedules
<i>schedulename</i>	(Optional) Schedule name
<i>scheduleusername</i>	(Optional) schedule username
<i>scheduletype</i>	(Optional) scheduletype
<i>starttime</i>	(Optional) starttime
<i>lastexecetime</i>	(Optional) last exec time
<i>lastcompletiontime</i>	(Optional) lastcompletiontime
<i>execcount</i>	(Optional) execcount
<i>jobcount</i>	(Optional) jobcount
TABLE_jobs	(Optional) jobs
<i>jobname</i>	(Optional) jobname
<i>execstatus</i>	(Optional) execstatus

## Command Mode

- /exec

# show segment-routing

```
show segment-routing [ detail ] [ __readonly__ <srvname> <state> <process_id> [ <srgb_min_label>
<srgb_max_label> <srgb_alloc_status> [ <oper_srgb_min_label> <oper_srgb_max_label> ] <cleanup_intvl>
<retry_intvl> [ <num_retries> ] [ <srgb_alloc_hdl> ] [ <cleanup_timer_state> <retry_timer_state> ] ] [
<ulib_reg_status> [ <ulib_pib_hdl> ] ] ]
```

## Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
detail	(Optional) Show detailed information
__readonly__	(Optional)
<i>srvname</i>	(Optional) Service name
<i>state</i>	(Optional) Process state
<i>process_id</i>	(Optional) Process id
<i>srgb_min_label</i>	(Optional) Configured SRGB min label
<i>srgb_max_label</i>	(Optional) Configured SRGB max label
<i>srgb_alloc_status</i>	(Optional) SRGB allocation status
<i>oper_srgb_min_label</i>	(Optional) Operational SRGB min label
<i>oper_srgb_max_label</i>	(Optional) Operational SRGB max label
<i>cleanup_intvl</i>	(Optional) SRGB cleanup interval
<i>retry_intvl</i>	(Optional) SRGB alloc retry interval
<i>num_retries</i>	(Optional) SRGB alloc retries done
<i>srgb_alloc_hdl</i>	(Optional) SRGB alloc handle
<i>cleanup_timer_state</i>	(Optional) SRGB cleanup timer state
<i>retry_timer_state</i>	(Optional) SRGB retry timer state
<i>ulib_reg_status</i>	(Optional) ULIB registration done
<i>ulib_pib_hdl</i>	(Optional) ULIB PIB handle

## Command Mode

- /exec

## show segment-routing clients

```
show segment-routing clients [ __readonly__ [ { TABLE_client <client_pib_name> <client_pib_index>
<client_uuid> <client_pid> <client_sap> [ { TABLE_tib <vrf_name> <tib_name> [ <pfxsid_cleanup_status>
] } ] } ] <total_clients> ]
```

### Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
clients	Show client info
<i>__readonly__</i>	(Optional)
<i>TABLE_client</i>	(Optional)
<i>client_pib_name</i>	(Optional) Client name
<i>client_pib_index</i>	(Optional) Client pib index
<i>client_uuid</i>	(Optional) Client UUID
<i>client_pid</i>	(Optional) Client PID
<i>client_sap</i>	(Optional) Client SAP
<i>TABLE_tib</i>	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>tib_name</i>	(Optional) Table name
<i>pfxsid_cleanup_status</i>	(Optional) Prefixsid Cleanup Pending?
<i>total_clients</i>	(Optional) Total number of clients

### Command Mode

- /exec

## show segment-routing ipv4 connected-prefix-sid-map

```
show segment-routing ipv4 connected-prefix-sid-map [ __readonly__ [ { TABLE_tib <vrf_name> <tib_name>
[ { TABLE_pfxsid <prefix> <index> <absolute> <range> <valid> } ] } ] ] ]
```

### Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
ipv4	Show info for IPv4 address-family
connected-prefix-sid-map	Show prefix-sid mapping
<i>__readonly__</i>	(Optional)
<i>TABLE_tib</i>	(Optional)
<i>vrf_name</i>	(Optional) Vrf name
<i>tib_name</i>	(Optional) Table name
<i>TABLE_pfxsid</i>	(Optional)
<i>prefix</i>	(Optional) Prefix
<i>index</i>	(Optional) Segment ID
<i>absolute</i>	(Optional) Segment ID is absolute?
<i>range</i>	(Optional) Range of Segment IDs from index
<i>valid</i>	(Optional) Segment ID is valid?

### Command Mode

- /exec

## show segment-routing mpls

```
show segment-routing mpls [ detail ] [ __readonly__ <srvname> <state> <process_id> [ <srgb_min_label>
<srgb_max_label> <srgb_alloc_status> [ <oper_srgb_min_label> <oper_srgb_max_label> ] <cleanup_intvl>
<retry_intvl> [ <num_retries> ] [ <srgb_alloc_hdl> ] [ <cleanup_timer_state> <retry_timer_state> ] ] [
<ulib_reg_status> [ <ulib_pib_hdl> ] ] ]
```

### Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
mpls	Show segment-routing mpls info
detail	(Optional) Show detailed information
__readonly__	(Optional)
<i>srvname</i>	(Optional) Service name
<i>state</i>	(Optional) Process state
<i>process_id</i>	(Optional) Process id
<i>srgb_min_label</i>	(Optional) Configured SRGB min label
<i>srgb_max_label</i>	(Optional) Configured SRGB max label
<i>srgb_alloc_status</i>	(Optional) SRGB allocation status
<i>oper_srgb_min_label</i>	(Optional) Operational SRGB min label
<i>oper_srgb_max_label</i>	(Optional) Operational SRGB max label
<i>cleanup_intvl</i>	(Optional) SRGB cleanup interval
<i>retry_intvl</i>	(Optional) SRGB alloc retry interval
<i>num_retries</i>	(Optional) SRGB alloc retries done
<i>srgb_alloc_hdl</i>	(Optional) SRGB alloc handle
<i>cleanup_timer_state</i>	(Optional) SRGB cleanup timer state
<i>retry_timer_state</i>	(Optional) SRGB retry timer state
<i>ulib_reg_status</i>	(Optional) ULIB registration done
<i>ulib_pib_hdl</i>	(Optional) ULIB PIB handle

### Command Mode

- /exec

# show segment-routing mpls clients

```
show segment-routing mpls clients [ __readonly__ [ { TABLE_client <client_pib_name> <client_pib_index>
<client_uuid> <client_pid> <client_sap> [ { TABLE_tib <vrf_name> <tib_name> [ <pxsid_cleanup_status>
] } ] } ] <total_clients> ]
```

## Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
mpls	Show segment-routing mpls info
clients	Show client info
<i>__readonly__</i>	(Optional)
TABLE_client	(Optional)
<i>client_pib_name</i>	(Optional) Client name
<i>client_pib_index</i>	(Optional) Client pib index
<i>client_uuid</i>	(Optional) Client UUID
<i>client_pid</i>	(Optional) Client PID
<i>client_sap</i>	(Optional) Client SAP
TABLE_tib	(Optional)
<i>vrf_name</i>	(Optional) VRF name
<i>tib_name</i>	(Optional) Table name
<i>pxsid_cleanup_status</i>	(Optional) Prefixsid Cleanup Pending?
<i>total_clients</i>	(Optional) Total number of clients

## Command Mode

- /exec



# show segment-routing mpls ipv4 connected-prefix-sid-map

```
show segment-routing mpls ipv4 connected-prefix-sid-map [ __readonly__ [ { TABLE_tib <vrf_name>
<tib_name> [ { TABLE_pfxsid <prefix> <index> <absolute> <range> <valid> } ] } ] ] ]
```

## Syntax Description

show	Show running system information
segment-routing	Show segment-routing status info
mpls	Show segment-routing mpls info
ipv4	Show info for IPv4 address-family
connected-prefix-sid-map	Show prefix-sid mapping
<i>__readonly__</i>	(Optional)
<i>TABLE_tib</i>	(Optional)
<i>vrf_name</i>	(Optional) Vrf name
<i>tib_name</i>	(Optional) Table name
<i>TABLE_pfxsid</i>	(Optional)
<i>prefix</i>	(Optional) Prefix
<i>index</i>	(Optional) Segment ID
<i>absolute</i>	(Optional) Segment ID is absolute?
<i>range</i>	(Optional) Range of Segment IDs from index
<i>valid</i>	(Optional) Segment ID is valid?

## Command Mode

- /exec

# show sflow

```
show sflow [ __readonly__ <sampling-rate> <max-sampled-size> <counter-poll-interval> <max-datagram-size>
<collector-vrf> <collector-ip> [ <source-ip> ] <collector-port> <agent-ip> [ <data-source-interface> + ] ]
```

## Syntax Description

show	Show running system information
sflow	Display sFlow global configuration
<i>__readonly__</i>	(Optional) Read only
<i>sampling-rate</i>	(Optional) Sampling Rate
<i>max-sampled-size</i>	(Optional) Max Sampled Size
<i>counter-poll-interval</i>	(Optional) Counter Poll Interval
<i>max-datagram-size</i>	(Optional) Max Datagram Size
<i>collector-vrf</i>	(Optional) Collector VRF
<i>collector-ip</i>	(Optional) Collector IP
<i>source-ip</i>	(Optional) Source IP
<i>collector-port</i>	(Optional) Collector Port
<i>agent-ip</i>	(Optional) Agent IP
<i>data-source-interface</i>	(Optional) Data Source Interface

## Command Mode

- /exec

## show sflow statistics

```
show sflow statistics [ __readonly__ <total-packets> <total-samples> <processed-samples> <dropped-samples>
[ <rate-limiter-drops> ] [ <dropped-sflow-samples> ] <sent-datagrams> <dropped-datagrams> ]
```

### Syntax Description

show	Show running system information
sflow	Display sFlow global configuration
statistics	Display sFlow statistics
<i>__readonly__</i>	(Optional) Read only
<i>total-packets</i>	(Optional) Total Packets
<i>total-samples</i>	(Optional) Total Samples
<i>processed-samples</i>	(Optional) Processed Samples
<i>dropped-samples</i>	(Optional) Dropped Samples
<i>rate-limiter-drops</i>	(Optional) Rate-Limiter Drops
<i>dropped-sflow-samples</i>	(Optional) Dropped sflow Samples
<i>sent-datagrams</i>	(Optional) Sent Datagrams
<i>dropped-datagrams</i>	(Optional) Dropped Datagrams

### Command Mode

- /exec

# show snapshots

show snapshots [ \_\_readonly\_\_ TABLE\_snapshot <snap\_name> <snap\_ctime> <description> ]

## Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
__readonly__	(Optional)
TABLE_snapshot	(Optional)
<i>snap_name</i>	(Optional) snapshot name
<i>snap_ctime</i>	(Optional) snapshot create time
<i>description</i>	(Optional) snapshot description

## Command Mode

- /exec

## show snapshots compare

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> [ __readonly__ TABLE_feature
<feat_name> [ <feat_state1> <feat_state2> ] [ TABLE_element <elemkey1> <elemval1> [ <elemkey2>
<elemval2> ] [ <elemkey3> <elemval3> ] [ <elemkey4> <elemval4> ] [ <elemstate1> <elemstate2> ] [
TABLE_value <tag> <val1> <val2> ] [ TABLE_subrow <subrowkey> <subrowval> [ <substate1> <substate2>
] [ TABLE_subvalue <tag> <val1> <val2> ] ] ] ]
```

### Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
<i>__readonly__</i>	(Optional)
TABLE_feature	(Optional)
<i>feat_name</i>	(Optional) feature name
<i>feat_state1</i>	(Optional) feature state in snapshot1
<i>feat_state2</i>	(Optional) feature state in snapshot2
TABLE_element	(Optional)
<i>elemkey1</i>	(Optional) element key1
<i>elemval1</i>	(Optional) element value1
<i>elemkey2</i>	(Optional) element key2
<i>elemval2</i>	(Optional) element value2
<i>elemkey3</i>	(Optional) element key3
<i>elemval3</i>	(Optional) element value3
<i>elemkey4</i>	(Optional) element key4
<i>elemval4</i>	(Optional) element value4
<i>elemstate1</i>	(Optional) element state in snapshot 1
<i>elemstate2</i>	(Optional) element state in snapshot 2
TABLE_value	(Optional)
<i>tag</i>	(Optional) element tag

<i>val1</i>	(Optional) element value for tag in snapshot1
<i>val2</i>	(Optional) element value for tag in snapshot2
TABLE_subrow	(Optional)
<i>subrowkey</i>	(Optional) subrow key
<i>subrowval</i>	(Optional) subrow value
<i>substate1</i>	(Optional) subrow state in snapshot 1
<i>substate2</i>	(Optional) subrow state in snapshot 2
TABLE_subvalue	(Optional)
<i>tag</i>	(Optional) subrow tag
<i>val1</i>	(Optional) subrow value for tag in snapshot1
<i>val2</i>	(Optional) subrow value for tag in snapshot2

**Command Mode**

- /exec

## show snapshots compare ipv4routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv4routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

### Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
ipv4routes	Compare ipv4 route information
<i>__readonly__</i>	(Optional)
TABLE_summary	(Optional)
<i>item_desc</i>	(Optional) item description
<i>summary_val1</i>	(Optional) summary value in snapshot1
<i>summary_val2</i>	(Optional) summary value in snapshot2
<i>changed</i>	(Optional) changed flag
TABLE_prefix	(Optional)
<i>prefix</i>	(Optional) route prefix
<i>missing_snapshot</i>	(Optional) missing in snapshot name

### Command Mode

- /exec

## show snapshots compare ipv6routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv6routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

### Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
ipv6routes	Compare ipv6 route information
<i>__readonly__</i>	(Optional)
TABLE_summary	(Optional)
<i>item_desc</i>	(Optional) item description
<i>summary_val1</i>	(Optional) summary value in snapshot1
<i>summary_val2</i>	(Optional) summary value in snapshot2
<i>changed</i>	(Optional) changed flag
TABLE_prefix	(Optional)
<i>prefix</i>	(Optional) route prefix
<i>missing_snapshot</i>	(Optional) missing in snapshot name

### Command Mode

- /exec



## show snapshots compare summary

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> summary [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] ]
```

### Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
summary	Compare summary information
<i>__readonly__</i>	(Optional)
<i>TABLE_summary</i>	(Optional)
<i>item_desc</i>	(Optional) item description
<i>summary_val1</i>	(Optional) summary value in snapshot1
<i>summary_val2</i>	(Optional) summary value in snapshot2
<i>changed</i>	(Optional) changed flag

### Command Mode

- /exec

# show snapshots dump

show snapshots dump <snapshot-name> [ \_\_readonly\_\_ TABLE\_snapshot <file\_name> <snap\_name> ]

## Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
dump	Dump contents of snapshot
<i>snapshot-name</i>	Name of a snapshot
__readonly__	(Optional)
TABLE_snapshot	(Optional)
<i>file_name</i>	(Optional) snapshot XML file name
<i>snap_name</i>	(Optional) snapshot name

## Command Mode

- /exec

# show snapshots dump

```
show snapshots dump <snapshot-name> <section-name> [ __readonly__ TABLE_snapshot <file_name>
<snap_name> ]
```

## Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
dump	Dump contents of snapshot
<i>snapshot-name</i>	Name of a snapshot
<i>section-name</i>	Name of snapshot section
<code>__readonly__</code>	(Optional)
TABLE_snapshot	(Optional)
<i>file_name</i>	(Optional) snapshot XML file name
<i>snap_name</i>	(Optional) snapshot name

## Command Mode

- /exec

# show snapshots sections

show snapshots sections [ *\_\_readonly\_\_* *TABLE\_snapsection* <sectname> <sectcmd> <sectrow> <sectkey1> <sectkey2> ]

## Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
sections	User-specified snapshot sections
<i>__readonly__</i>	(Optional)
<i>TABLE_snapsection</i>	(Optional)
<i>sectname</i>	(Optional) snapshot section name
<i>sectcmd</i>	(Optional) snapshot section show command
<i>sectrow</i>	(Optional) snapshot section row id
<i>sectkey1</i>	(Optional) snapshot section key1
<i>sectkey2</i>	(Optional) snapshot section key2

## Command Mode

- /exec

# show snmp

```
show snmp [ __readonly__ <sys_contact> <sys_location> <snmp_input_packets> <bad_snmp_version>
<unknown_community_name> <illegal_community_name> <encoding_Err> <req_var_nums> <alt_var_nums>
<get_req_in> <getnext_req_in> <set_req_in> <noname_pdu_in> <badval_pdu_in> <ro_pdu_in>
<genral_err_in> <get_resp_in> <unknown_ctx> <snmp_output_packets> <trap_pdu> <toobig_err>
<noname_pdu_out> <badval_pdu_out> <genral_err_out> <get_req_out> <getnext_req_out> <set_req_out>
<get_resp_out> <silent_drops> [ <max_pkt_size> ] [ { TABLE_snmp_community <community_name>
<grouporaccess> <context> <aclfilter> } ] [ { TABLE_snmp_users <user> <auth> <priv> [ { TABLE_groups
<group> } ] [ <acl_filter> ] [ <engineID> } ] ] <tcp_auth_status> [ <port_mon_status> [ <policy_name>
<pol_admin_status> <plo_oper_status> <pol_port_type> [ TABLE_policies <counter> <threshold> <interval>
<rising_threshold> <rising_event> <falling_threshold> <falling_event> <pmon_config> ] ] ] [ <protocol_status>
] [ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf> <topology> [ <vlan> | <MST> } ]
] ]
```

## Syntax Description

show	Show running system information
snmp	show snmp information
<i>__readonly__</i>	(Optional) Read Only
TABLE_snmp_community	(Optional) Table that displays the community information
TABLE_snmp_users	(Optional) Table that displays the user information
TABLE_groups	(Optional) Table that displays the group information
TABLE_policies	(Optional) Table that displays the policy information
TABLE_snmp_contexts	(Optional) Table that displays the context information
<i>sys_contact</i>	(Optional) System Contact
<i>sys_location</i>	(Optional) System Location
<i>snmp_input_packets</i>	(Optional) SNMP input packets
<i>bad_snmp_version</i>	(Optional) bad snmp version in Input SNMP packets
<i>unknown_community_name</i>	(Optional) unknown community name in Input SNMP packets
<i>illegal_community_name</i>	(Optional) Illegal community name in Input SNMP packets
<i>encoding_Err</i>	(Optional) Encoding Errors in Input SNMP packets
<i>req_var_nums</i>	(Optional) number of requested variables
<i>alt_var_nums</i>	(Optional) number of altered variable
<i>get_req_in</i>	(Optional) GET request in Input SNMP packets
<i>getnext_req_in</i>	(Optional) GET-NEXT request in Input SNMP packets

<i>set_req_in</i>	(Optional) SET request in Input SNMP packets
<i>noname_pdu_in</i>	(Optional) NONAME PDU in Input SNMP packets
<i>badval_pdu_in</i>	(Optional) Bad value PDU in Input SNMP packets
<i>ro_pdu_in</i>	(Optional) Read only PDU in Input SNMP packets
<i>genral_err_in</i>	(Optional) Genral Error in Input SNMP packets
<i>get_resp_in</i>	(Optional) Get Response PDU in Input SNMP packets
<i>unknown_ctx</i>	(Optional) Unknown context Name in Input SNMP packets
<i>snmp_output_packets</i>	(Optional) SNMP Output Packets
<i>trap_pdu</i>	(Optional) Trap PDU in Output SNMP Packets
<i>toobig_err</i>	(Optional) Too Big errors in Output SNMP Packets
<i>noname_pdu_out</i>	(Optional)
<i>badval_pdu_out</i>	(Optional) NoName PDU in Output SNMP Packets
<i>genral_err_out</i>	(Optional) Genral Error in Output SNMP Packets
<i>get_req_out</i>	(Optional) GET request in Output SNMP Packets
<i>getnext_req_out</i>	(Optional) GET-NEXTrequest in Output SNMP Packets
<i>set_req_out</i>	(Optional) SET request in Output SNMP packets
<i>get_resp_out</i>	(Optional) Get Response PDU in Output SNMP Packets
<i>silent_drops</i>	(Optional) Silent Drop packets
<i>max_pkt_size</i>	(Optional) Maximum packet size
<i>community_name</i>	(Optional) community name
<i>grouporaccess</i>	(Optional) Group name
<i>context</i>	(Optional) context Name
<i>aclfilter</i>	(Optional) Acl filter name
<i>user</i>	(Optional) User name
<i>auth</i>	(Optional) Auth type
<i>priv</i>	(Optional) Priv Type
<i>group</i>	(Optional) Group name
<i>acl_filter</i>	(Optional) acl filter
<i>engineID</i>	(Optional) engine id for the user

<i>tcp_auth_status</i>	(Optional) TCP authentication status
<i>port_mon_status</i>	(Optional) Port monitor status
<i>policy_name</i>	(Optional) policy name
<i>pol_admin_status</i>	(Optional) Policy Admin status
<i>plo_oper_status</i>	(Optional) Police oper status
<i>pol_port_type</i>	(Optional) policy port type
<i>counter</i>	(Optional) counters
<i>threshold</i>	(Optional) Threshold
<i>interval</i>	(Optional) Interval
<i>rising_threshold</i>	(Optional) Rising threshold
<i>rising_event</i>	(Optional) Rising Event
<i>falling_threshold</i>	(Optional) Falling threshold
<i>falling_event</i>	(Optional) Falling Event
<i>pmon_config</i>	(Optional) PMON configured
<i>protocol_status</i>	(Optional) Protocol Enable status
<i>context_name</i>	(Optional) context name
<i>proto_instanceid</i>	(Optional) Protocol instance ID
<i>vrf</i>	(Optional) VRF Name
<i>topology</i>	(Optional) Topology
<i>vlan</i>	(Optional) VLAN name
<i>MST</i>	(Optional) MST name

**Command Mode**

- /exec

# show snmp community

```
show snmp community [ __readonly__ { TABLE_snmp_community <community_name> <grouporaccess>
<context> <aclfilter> } ]
```

## Syntax Description

show	Show running system information
snmp	show snmp information
community	show snmp community strings
__readonly__	(Optional) Read Only
TABLE_snmp_community	(Optional) contains all snmp community names
<i>community_name</i>	(Optional) community name
<i>grouporaccess</i>	(Optional) group or access name
<i>context</i>	(Optional) context name
<i>aclfilter</i>	(Optional) acl filter name

## Command Mode

- /exec



## show snmp context

```
show snmp context [ __readonly__ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf>
<topology> [ <vlan> | <MST> ] } ]
```

### Syntax Description

show	Show running system information
snmp	show snmp information
context	show snmp context mapping entries
__readonly__	(Optional)
TABLE_snmp_contexts	(Optional) All SNMP Contexts Entries
<i>context_name</i>	(Optional) SNMP context Name
<i>proto_instanceid</i>	(Optional) Name of the protocol instance
<i>vrf</i>	(Optional) VRF name
<i>topology</i>	(Optional) Name of the Topology
<i>vlan</i>	(Optional) VLAN Name
<i>MST</i>	(Optional)

### Command Mode

- /exec

# show snmp engineID

show snmp engineID [ \_\_readonly\_\_ <engineIDHex> <engineIDDec> ]

## Syntax Description

show	Show running system information
snmp	show snmp information
engineID	show snmp engineID
__readonly__	(Optional)
<i>engineIDHex</i>	(Optional) SNMP engineID in HEX
<i>engineIDDec</i>	(Optional) SNMP engineID in Decimal

## Command Mode

- /exec

## show snmp group

```
show snmp group [ __readonly__ { TABLE_role <role_name> <role_description> [ <attribute_scope> ] [
<permit_vsan> ] [ <permit_vlan> ] [ <permit_vlan_id> ] [ <permit_interface> ] [ <permit_interface_slot> ]
[ <permit_vrf> ] [ TABLE_vrf<permit_vrf_name> ] [ { TABLE_rule [ <rule_num> ] [ <rule_action> ] {
<rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] } } ]
```

### Syntax Description

show	Show running system information
snmp	show snmp information
group	show snmp group
__readonly__	(Optional) Read Only
TABLE_role	(Optional) Table displays role
<i>role_name</i>	(Optional) Role Name
<i>role_description</i>	(Optional) Role Description
<i>attribute_scope</i>	(Optional) Role scope
<i>permit_vsan</i>	(Optional) permitted vsan
<i>permit_vlan</i>	(Optional)
<i>permit_vlan_id</i>	(Optional)
<i>permit_interface</i>	(Optional)
<i>permit_interface_slot</i>	(Optional)
<i>permit_vrf</i>	(Optional)
TABLE_rule	(Optional)
<i>rule_num</i>	(Optional)
<i>rule_action</i>	(Optional)
<i>rule_permission</i>	(Optional)
<i>rule_permission_mds</i>	(Optional)
<i>rule_featuretype</i>	(Optional)
<i>rule_entity</i>	(Optional)

### Command Mode

- /exec

# show snmp host

```
show snmp host [ __readonly__ { TABLE_host <host><port><version><level><type><secname> [ [ <vrf>
] [ TABLE_vrf_filters <vrf_filter> ] [ <src_intf> ] ] } ]
```

## Syntax Description

show	Show running system information
snmp	show snmp information
host	show snmp hosts
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_host</i>	(Optional) displays the list of hosts configured for snmp requests
<i>TABLE_vrf_filters</i>	(Optional) displays the host vrf filters
<i>vrf</i>	(Optional) VRF Name
<i>vrf_filter</i>	(Optional) vrf filters
<i>src_intf</i>	(Optional) source interface

## Command Mode

- /exec

## show snmp nms-statistics

```
show snmp nms-statistics [ __readonly__ <header> [ <nms_stats> ] ]
```

### Syntax Description

show	Show running system information
snmp	Show snmp information
nms-statistics	Show SNMP NMS statistics
__readonly__	(Optional) Read Only
<i>header</i>	(Optional) NMS Statistics header
<i>nms_stats</i>	(Optional) NMS Statistics

### Command Mode

- /exec

# show snmp oid-statistics

```
show snmp oid-statistics [ last-access ] [ __readonly__ <header> { TABLE_snmp_gen <oid_stats> |
TABLE_snmp_la <oid_last_access_stats> } ]
```

## Syntax Description

show	Show running system information
snmp	Show snmp information
oid-statistics	Show SNMP oid statistics
last-access	(Optional) Show SNMP oid statistics of last-access
__readonly__	(Optional) Read Only
<i>header</i>	(Optional) OID Statistics header
TABLE_snmp_gen	(Optional) contains all snmp oid statistics
<i>oid_stats</i>	(Optional) OID Statistics
TABLE_snmp_la	(Optional) contains all snmp oid last access statistics
<i>oid_last_access_stats</i>	(Optional) OID Last Access Statistics

## Command Mode

- /exec

## show snmp sessions

show snmp sessions [ \_\_readonly\_\_ { TABLE\_session <dest> } ]

### Syntax Description

show	Show running system information
snmp	show snmp information
sessions	show snmp sessions
__readonly__	(Optional) Read Only
TABLE_session	(Optional) table displays destination
<i>dest</i>	(Optional) destination

### Command Mode

- /exec

# show snmp source-interface

```
show snmp source-interface [ __readonly__ { <trap_srcintf> <informs_srcintf> } ]
```

## Syntax Description

show	Show running system information
snmp	show snmp information
source-interface	show source-interface through which notifications are sent
__readonly__	(Optional) Read Only
<i>trap_srcintf</i>	(Optional) Displays the source interface for traps
<i>informs_srcintf</i>	(Optional) Displays the source interface for informs

## Command Mode

- /exec



# show snmp trap

```
show snmp trap [ __readonly__ { TABLE_snmp_trap <trap_type><description><isEnabled> } ]
```

## Syntax Description

show	Show running system information
snmp	show snmp information
trap	show snmp traps
__readonly__	(Optional) Read Only
TABLE_snmp_trap	(Optional) All snmp traps configured

## Command Mode

- /exec

# show snmp user

```
show snmp user [ <s0> [ engineID <s1> ] ] [ __readonly__ [ { TABLE_snmp_users <user> <auth> <priv> [ <group> ] + [ <acl_filter> ] [ <engineID> } ] ] ]
```

## Syntax Description

show	Show running system information
snmp	show snmp information
user	show SNMPv3 users
<i>s0</i>	(Optional) Name of the user
engineID	(Optional) engineID
<i>s1</i>	(Optional) Target's SNMP engineID(colon separated) for SNMPv3 inform
__readonly__	(Optional) Read Only
TABLE_snmp_users	(Optional) table displays the snmp users
<i>user</i>	(Optional) user name
<i>auth</i>	(Optional) auth type
<i>priv</i>	(Optional) priv type
<i>group</i>	(Optional) group belongs to
<i>acl_filter</i>	(Optional) acl filter
<i>engineID</i>	(Optional) engineID for specific user

## Command Mode

- /exec



tcp	(Optional) Display TCP clients
udp	(Optional) Display UDP clients
raw	(Optional) Display RAW clients
detail	(Optional) Display socket details
kstack-ns-all	(Optional) Show kernel clients for all namespaces
__readonly__	(Optional)
TABLE_total_clients	(Optional) Total no of client sockets
socket-type	(Optional) Sockets type
total-clients	(Optional) total clients
no-total-clients	(Optional) number of total clients
TABLE_cl_sk	(Optional) Display Client sockets
prefix	(Optional) Prefix to the sockets
client-name	(Optional) Display socket client info
pid	(Optional) Display client process <pid>
No-of-clients	(Optional) Number of socket clients
fast-tcp-mts-ctrl-q	(Optional) Fast tcp mts control queue
cancel-requests	(Optional) cancel requests
cancel-unblocks	(Optional) cancel unblocks
cancel-misses	(Optional) cancel misses
select-drops	(Optional) select drops
select-wakes	(Optional) select wakes
TABLE_det	(Optional) Display Socket client Details
fd	(Optional) Client socket fd
client-id	(Optional) Client socket id
mts-sap	(Optional) socket mts addr sap
TABLE_st	(Optional) Sock detail Ctrl statistics
soc-calls	(Optional) sockets calls
bind-calls	(Optional) socket bind calls
listen-calls	(Optional) socket listen calls

<i>accept-calls</i>	(Optional) socket accept calls
<i>acc-dispat-err</i>	(Optional) socket accept dispatch error
<i>connect-calls</i>	(Optional) socket connect calls
<i>connec-dispatch</i>	(Optional) socket dispatch calls
<i>recvmsg-dispatch</i>	(Optional) receive msg dispatch
<i>recv-dis-nblock</i>	(Optional) receive dispatch nonblock
<i>recvmsg-call</i>	(Optional) receive message call
<i>brecv-dispatch</i>	(Optional) broadcast receive dispatch
<i>fsendmsg-calls</i>	(Optional) forward send message dispatch
<i>sendmsg-dispatch</i>	(Optional) send message dispatch
<i>sendmsg-calls</i>	(Optional) send message calls
<i>msendmsg-calls</i>	(Optional) multicast send message calls
<i>select-calls</i>	(Optional) select calls
<i>select-dispatch</i>	(Optional) select dispatch
<i>select-need-work</i>	(Optional) select need work
<i>sh-calls</i>	(Optional) show calls
<i>close-calls</i>	(Optional) close calls
<i>fcntl-calls</i>	(Optional) fcntl calls
<i>ioctl-calls</i>	(Optional) ioctl calls
<i>setsock-calls</i>	(Optional) setsock calls
<i>getsock-calls</i>	(Optional) getsock calls
<i>getsockname-calls</i>	(Optional) get socket name calls
<i>getpeer-calls</i>	(Optional) get peer calls
<i>fork-calls</i>	(Optional) fork calls
<i>execve-calls</i>	(Optional) execve calls
<i>dup-calls</i>	(Optional) duplicate calls
<i>can-calls</i>	(Optional) cancel calls
<i>can-miss</i>	(Optional) cancel miss
<i>can-unblk-sele</i>	(Optional) cancel unblock select

<i>soc-ha-calls</i>	(Optional) socket ha calls
<i>pfork-client</i>	(Optional) pfork client
<i>read-fd</i>	(Optional) socket read fd
<i>write-fd</i>	(Optional) socket write fd
<i>read-fd-set</i>	(Optional) socket read fd set
<i>write-fd-set</i>	(Optional) socket write fd set
<i>fast-tcp-send-req</i>	(Optional) socket fast tcp send request
<i>fast-tcp-send-suc</i>	(Optional) socket fast tcp send success
<i>fast-tcp-ack</i>	(Optional) socket fast tcp ack
TABLE_sterr	(Optional) Client Socket Error Statistics
<i>sock-err</i>	(Optional) socket error
<i>sock-nodev-err</i>	(Optional) socket nodev error
<i>bind-err</i>	(Optional) socket bind error
<i>lis-err</i>	(Optional) socket listen error
<i>accept-err</i>	(Optional) socket accept error
<i>connect-err</i>	(Optional) socket connect error
<i>recvmsg-err</i>	(Optional) socket receive message error
<i>brcvmsg-err</i>	(Optional) socket broadcast receive message error
<i>fsendmsg-err</i>	(Optional) socket forward send message error
<i>sendmsg-err</i>	(Optional) socket send message error
<i>msndmsg-err</i>	(Optional) socket multicast send message error
<i>select-err</i>	(Optional) socket select error
<i>sel-nomem-err</i>	(Optional) socket select no member error
<i>shut-err</i>	(Optional) socket shutdown error
<i>close-err</i>	(Optional) socket close error
<i>fcntl-err</i>	(Optional) socket fcntl error
<i>ioctl-err</i>	(Optional) socket ioctl error
<i>setsoc-err</i>	(Optional) set socket error
<i>getsoc-err</i>	(Optional) get socket error

<i>getsocname-err</i>	(Optional) get socket name error
<i>getpeername-err</i>	(Optional) get peer name error
<i>fork-err</i>	(Optional) socket fork error
<i>execve-err</i>	(Optional) socket execve error
<i>dup-err</i>	(Optional) socket duplicate error
<i>psoc-vrf-err</i>	(Optional) psocket vrf error
<i>psoc-nosoc-err</i>	(Optional) psocket nosoc error
<i>psoc-sock-null-err</i>	(Optional) psocket socket null error
<i>psoc-socre-err</i>	(Optional) psocket socre error
<i>pbind-nsock-err</i>	(Optional) pbind nsock error
<i>pbd-getsocaddr</i>	(Optional) pbd getsocaddr
<i>pbind-sobind-err</i>	(Optional) pbind sobind error
<i>plisten-nsoc-err</i>	(Optional) plisten nsoc error
<i>plis-solis-err</i>	(Optional) plisten socket listen error
<i>pacc-nsoc-err</i>	(Optional) paccept new socket error
<i>pacc-no-nsoc-err</i>	(Optional) paccept no new socket error
<i>pacc-sock-null-err</i>	(Optional) paccept socket null error
<i>pacc-copy-err</i>	(Optional) paccept copy error
<i>pacc-no-acc-err</i>	(Optional) paccept no accept error
<i>pacc-woublo-err</i>	(Optional) paccept would block error
<i>pacc-connabo-err</i>	(Optional) paccept connect abort error
<i>pacc-cond-wait-err</i>	(Optional) paccept condition wait error
<i>pacc-so-err-err</i>	(Optional) paccept socket error
<i>pacc-err-err</i>	(Optional) paccept error
<i>pcon-no-soc-err</i>	(Optional) pconnect no socket error
<i>pcon-ealready-err</i>	(Optional) pconnect ready error
<i>pconn-getsock</i>	(Optional) pconnect get socket
<i>pconn-socon-err</i>	(Optional) pconnect socket on error
<i>pconn-einpro-err</i>	(Optional) pconnect einprogress error

<i>pconn-con-wait-err</i>	(Optional) pconnect condition wait error
<i>psend-no-soc-err</i>	(Optional) psend no socket error
<i>psend-inval-iov</i>	(Optional) psend invalidate iov
<i>psend-getsoc-err</i>	(Optional) psend getsocket error
<i>psend-msg-ctrl-err</i>	(Optional) psend message control error
<i>psend-sockarg-err</i>	(Optional) psend socket argument error
<i>psend-pru-sosend</i>	(Optional) psend pru socket send
<i>precv-nosock-err</i>	(Optional) preceive no socket error
<i>precv-inval-iovlen</i>	(Optional) preceive invalidate iovlen
<i>precv-pru-sorecv</i>	(Optional) preceive pru so receive
<i>precv-cp-msg-err</i>	(Optional) preceive copy message error
<i>precv-cp-msg-nlen</i>	(Optional) preceive copy message new length
<i>precv-cp-data-err</i>	(Optional) preceive copy data error
<i>pbrecv-rcvmsg-err</i>	(Optional) preceive receive message error
<i>pshut-no-soc-err</i>	(Optional) pshutdown no socket error
<i>psetsoc-val-err</i>	(Optional) pset socket value error
<i>psetsoc-inv-val</i>	(Optional) pset socket invalidate error
<i>psetsoc-no-soc-err</i>	(Optional) pset socket no socket error
<i>psetsoc-sosetopt</i>	(Optional) pset socket set opt
<i>pgetsoc-no-socerr</i>	(Optional) pget socket no socket error
<i>pgetsoc-cp-err</i>	(Optional) pget socket copy error
<i>pgetsoc-val-err</i>	(Optional) pget socket validate error
<i>pgetsoc-sogt-err</i>	(Optional) pget socket sogt error
<i>pgetsoc-no-soc-err</i>	(Optional) pget socket no socket error
<i>pgetsoc-cp-err</i>	(Optional) pget socket copy error
<i>pgetsoc-pru-soc-err</i>	(Optional) pget socket pru socket error
<i>pgetsoc-cpout-err</i>	(Optional) pget socket copy out error
<i>pgtprne-no-soc-err</i>	(Optional) pget peer name no socket error
<i>pgtprne-enot-err</i>	(Optional) pget peer name enot connect error



<i>pgtprne-cp-err</i>	(Optional) pget peer name copy error
<i>pgtprne-pru-pradd</i>	(Optional) pget peer name pru peer address
<i>pgtprne-cpout-err</i>	(Optional) pget peer name copy out error
<i>pclose-no-soc-err</i>	(Optional) pclose no socket error
<i>pclose-socnull-err</i>	(Optional) pclose socket null error
<i>pclose-p-cls2-err</i>	(Optional) pclose p close2 error
<i>pfcntl-no-soc-err</i>	(Optional) pfcntl no socket error
<i>pfcntl-soc-null</i>	(Optional) pfcntl socket null
<i>pfcntl-enotsup</i>	(Optional) pfcntl enotsupport errors
<i>pfcntl-einval-err</i>	(Optional) pfcntl invalidate error
<i>pioctl-no-soc-err</i>	(Optional) pioctl no socket error
<i>pioctl-enotsup</i>	(Optional) pioctl enotsup
<i>pioctl-pru-cntl</i>	(Optional) pioctl pru cntl
<i>pfork-enomem-err</i>	(Optional) pfork eno-memory error
<i>pdup-no-soc-err</i>	(Optional) pudp no socket error
<i>pdup-soc-null-err</i>	(Optional) pudp socket null error
<i>ha-nomem-err</i>	(Optional) ha no memory error
<i>ha-tlv-err</i>	(Optional) ha tlv error
<i>ha-soc-arg-err</i>	(Optional) ha socket argument error
<i>ha-cli-tlv-err</i>	(Optional) ha cli tlv error
<i>ha-pss-upd-err</i>	(Optional) ha pss udp error
<i>ha-no-soc-err</i>	(Optional) ha no socket error
<i>ha-soc-tlv-err</i>	(Optional) ha socket tlv error
<i>ha-soc-pss-upd</i>	(Optional) ha socket pss udp
<i>ha-inpcb-tlv</i>	(Optional) ha inpcb tlv value
<i>ha-inpcb-pssky</i>	(Optional) ha inpcb pssky value
<i>ha-ip-mopt-tlv</i>	(Optional) ha ip mopt tlv value
<i>ha-ip-mopt-pss</i>	(Optional) ha ip mopt pss value
<i>ha-ip6-mopt-tlv</i>	(Optional) ha ip6 mopt tlv value

<i>ha-ip6-mopt-pss</i>	(Optional) ha ip6 mopt pss value
<i>ha-tcpb-tlv</i>	(Optional) ha socket update tcpb to tlv error
<i>ha-tcpb-pss</i>	(Optional) ha socket update tcpb psskey update error
<i>ft-tcp-wblock</i>	(Optional) fast tcp send would block error
<i>ft-send-p-sndmsg</i>	(Optional) fast tcp send p_sendmsg errors
<i>ft-ack-rcv-no-soc</i>	(Optional) fast ack receive no socket
<i>lxc-tgid-err</i>	(Optional) Containers tgid err
TABLE_sp_cl	(Optional) Sock specific Ctrl statistics
<i>can-requests</i>	(Optional) socket control cancel request
<i>can-unblocks</i>	(Optional) socket cancel unblocks
<i>can-misses</i>	(Optional) socket cancel misses
<i>sel-drops</i>	(Optional) select drops
<i>sel-wakes</i>	(Optional) select wakes

#### Command Mode

- /exec

## show sockets connection

```
show sockets connection [ pid <pid> | tcp | udp | raw ] [ local { <srcIP> | <srcIP6> } ] [ foreign { <dstIP> | <dstIP6> } ] [ detail ] [ keydetails ] [ __readonly__ ] [ { TABLE_sockets <protocol> [ <total-conn-count> ] [ { TABLE_conn <afi> [ <laddr> ] [ <lport> ] [ <faddr> ] [ <fport> ] [ <prot> ] [ <type> ] [ <ttl> ] [ <tos> ] [ <options> ] [ <state> ] [ <rcv-count> ] [ <rcv-hiwat> ] [ <rcv-lowat> ] [ <rcv-flags> ] [ <snd-count> ] [ <snd-hiwat> ] [ <snd-lowat> ] [ <snd-flags> ] [ <iss> ] [ <snd-una> ] [ <snd-nxt> ] [ <snd_wnd> ] [ <irs> ] [ <rcv-nxt> ] [ <rcv-wnd> ] [ <snd-cwnd> ] [ <ooo_pkt_rcv> ] [ <ooo_pkt_drpd> ] [ <ooo_pkt_rqc> ] [ <rtt> ] [ <rttvar> ] [ <krtd> ] [ <rttmin> ] [ <mss> ] [ <dur> ] [ <tcp-state> ] [ <flags> ] [ <md5-cnt> ] [ <md5-host> ] [ <md5-err> ] [ <tcp-count> ] [ <udp-count> ] [ <raw-count> ] [ <vrf-name> ] [ <intf> } ] } ] ]
```

### Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
connection	Display connection information
pid	(Optional) Display specific client process connection status
<i>pid</i>	(Optional) Display client process connection status <pid>
tcp	(Optional) Display all TCP connections
udp	(Optional) Display all UDP connections
raw	(Optional) Display all raw connections
local	(Optional) Display all TCP connections with specified local address
<i>srcIP</i>	(Optional) Display all TCP connections with specified local address
foreign	(Optional) Display all TCP connections with specified foreign address
<i>dstIP</i>	(Optional) Display all TCP connections with specified foreign address
detail	(Optional) Display detailed connection information
keydetails	THIS KEYWORD OR VARIABLE IS NOT SUPPORTED
__readonly__	(Optional)
TABLE_sockets	(Optional) sockets table
<i>protocol</i>	(Optional) socket protocol
<i>total-conn-count</i>	(Optional) socket connection table
TABLE_conn	(Optional)
<i>afi</i>	(Optional) socket family

<i>prot</i>	(Optional) socket protocol
<i>tcp-state</i>	(Optional) socket tcp state
<i>rcv-count</i>	(Optional) socket connection receive count
<i>laddr</i>	(Optional) socket connection laddr
<i>lport</i>	(Optional) socket connection lport
<i>faddr</i>	(Optional) socket connection faddr
<i>fport</i>	(Optional) socket connection fport
<i>intf</i>	(Optional) socket connection interface
<i>vrf-name</i>	(Optional) socket vrf name
<i>snd-count</i>	(Optional) socket connection send count
<i>type</i>	(Optional) socket connection type
<i>ttl</i>	(Optional) socket connection ttl
<i>tos</i>	(Optional) socket connection tos
<i>options</i>	(Optional) socket connection option
<i>state</i>	(Optional) socket connection state
<i>iss</i>	(Optional) socket connection iss
<i>snd-una</i>	(Optional) socket connection send unavailable
<i>snd-nxt</i>	(Optional) socket connection send next
<i>snd_wnd</i>	(Optional) socket connection send window
<i>irs</i>	(Optional) socket connection irs
<i>rcv-nxt</i>	(Optional) socket connection receive next
<i>rcv-wnd</i>	(Optional) socket connection receive window
<i>snd-cwnd</i>	(Optional) socket connection close sent window
<i>ooo_pkt_rcv</i>	(Optional) socket connection out-of-order packet received
<i>ooo_pkt_drp</i>	(Optional) socket connection out-of-order packet dropped
<i>ooo_pkt_rqc</i>	(Optional) socket connection out-of-order reassembly queue count
<i>srtt</i>	(Optional) socket connection srtt
<i>rtt</i>	(Optional) socket connection rtt
<i>rttvar</i>	(Optional) socket connection rttvar

<i>krtt</i>	(Optional) socket connection krtt
<i>rttmin</i>	(Optional) socket connection rtt mintues
<i>mss</i>	(Optional) socket connection mss
<i>dur</i>	(Optional) socket connection duration
<i>flags</i>	(Optional) socket connection flags
<i>md5-cnt</i>	(Optional) socket connection md5 count
<i>md5-host</i>	(Optional) socket connection md5 host
<i>md5-err</i>	(Optional) socket connection md5 error
<i>rcv-hiwat</i>	(Optional) socket connection receive hiwat
<i>rcv-lowat</i>	(Optional) socket connection receive lowat
<i>rcv-flags</i>	(Optional) socket connection receive flags
<i>snd-hiwat</i>	(Optional) socket connection send hiwat
<i>snd-lowat</i>	(Optional) socket connection send lowat
<i>snd-flags</i>	(Optional) socket connection send flags
<i>tcp-count</i>	(Optional) socket connection tcp count
<i>udp-count</i>	(Optional) socket connection udp count
<i>raw-count</i>	(Optional) socket connection raw count

**Command Mode**

- /exec

## show sockets local-port-range

```
show sockets local-port-range [ __readonly__ <kstack_local_port_range_start> <kstack_local_port_range_end>
<netstack_local_port_range_start> <netstack_local_port_range_end> <nat_local_port_range_start>
<nat_local_port_range_end> ]
```

### Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
local-port-range	Display local port range
<i>__readonly__</i>	(Optional)
<i>kstack_local_port_range_start</i>	(Optional) Kstack local port range start
<i>kstack_local_port_range_end</i>	(Optional) Kstack local port range end
<i>netstack_local_port_range_start</i>	(Optional) Netstack local port range start
<i>netstack_local_port_range_end</i>	(Optional) Netstack local port range end
<i>nat_local_port_range_start</i>	(Optional) Nat local port range start
<i>nat_local_port_range_end</i>	(Optional) Nat local port range end

### Command Mode

- /exec

# show sockets ns-port-kiosk

```
show sockets ns-port-kiosk [ __readonly__ [ TABLE_port_kiosk { <client-process-id> <client-name> } [
TABLE_port_state_pro_name { <entry-counter> [ <listening-port> ] [ <fwd-port> ] [ <tcp-state> ] [ <mts-sap>
] [ <protocol-name> } ] ] ] ]
```

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
ns-port-kiosk	Display port kiosk for netstack socket clients
<i>__readonly__</i>	(Optional)
TABLE_port_kiosk	(Optional) Sockets ns port kiosk information
<i>client-process-id</i>	(Optional) Client Process ID
<i>client-name</i>	(Optional) Client Name
TABLE_port_state_pro_name	(Optional) Sockets ns port state protocol information
<i>entry-counter</i>	(Optional) Table Entry Counter
<i>listening-port</i>	(Optional) Listening Port
<i>fwd-port</i>	(Optional) FWD Port
<i>tcp-state</i>	(Optional) TCP State
<i>mts-sap</i>	(Optional) MTS SAP
<i>protocol-name</i>	(Optional) Protocol Name

## Command Mode

- /exec

## show sockets statistics

```

show sockets statistics [ all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum ] [ __readonly__
[ { TABLE_stat [ <rx-total> ] [ <rx-bad-csum> ] [ <rx-bad-offset> ] [ <rx-too-short> ] [ <rx-bad-md5> ] [
<rx-inseq-pack> ] [ <rx-inseq-bytes> ] [ <rx-dup-pack> ] [ <rx-dup-bytes> ] [ <rx-partdup-pack> ] [
<rx-partdup-bytes> ] [ <rx-oo-pack> ] [ <rx-oo-bytes> ] [ <rx-oo-drop-cnt> ] [ <rx-afterwin-pack> ] [
<rx-afterwin-bytes> ] [ <rx-afterclose-pack> ] [ <rx-winprobe-pack> ] [ <rx-winupdate-pack> ] [
<rx-dupack-pack> ] [ <rx-dupack-unsent-pack> ] [ <rx-ack-pack> ] [ <rx-ack-bytes> ] [ <rx-rcv-memdrop>
] [ <rx-dig-mssing> ] [ <rx-dig-unexpected> ] [ <rx-dig-notused> ] [ <rx-dig-valid> ] [ <rx-dig-invalid> ] [
<rx-get-passwd-fail> ] [ <rx-md5-mbuf-exded> ] [ <rx-uspec-src-recv> ] [ <rx-pkt-too-short> ] [ <rx-sin-finest>
] [ <rx-black-hole-syn> ] [ <rx-black-hole> ] [ <rx-drop-no-inpcb> ] [ <rx-drop-notcpcb> ] [
<rx-drp-sock-closed> ] [ <rx-syn-with-rst> ] [ <rx-syn-drop> ] [ <rx-bandlim> ] [ <rx-forged-pkt> ] [
<rx-drp-mbcast> ] [ <rx-drp-syn-add> ] [ <rx-drp-syn-recvd> ] [ <rx-drp-cc-sent> ] [ <rx-drp-rst-ccsent> ] [
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```

### Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
statistics	Display sockets statistics
all	(Optional) Display TCP/UDP/RAW v4/v6 protocols statistics
tcp	(Optional) Display TCP v4 protocol statistics
tcp6	(Optional) Display TCP v6 protocol statistics
tcpsum	(Optional) Display sum of TCP v4 and TCP v6 protocols statistics
udp	(Optional) Display UDP v4 protocol statistics
udp6	(Optional) Display UDP v6 protocol statistics
udpsum	(Optional) Display sum of UDP v4 and UDP v6 protocols statistics
raw	(Optional) Display RAW v4 protocol statistics
raw6	(Optional) Display RAW v6 protocol statistics
rawsum	(Optional) Display sum of RAW v4 and RAW v6 protocols statistics
__readonly__	(Optional)
TABLE_stat	(Optional) sockets statistics table
<i>rx-total</i>	(Optional) total packets received
<i>rx-bad-csum</i>	(Optional) packets received with ccksum errs
<i>rx-bad-offset</i>	(Optional) packets received with bad offset
<i>rx-too-short</i>	(Optional) packets received too short
<i>rx-bad-md5</i>	(Optional) Recieved bad digest
<i>rx-inseq-pack</i>	(Optional) packets received in sequence
<i>rx-inseq-bytes</i>	(Optional) bytes received in sequence
<i>rx-dup-pack</i>	(Optional) duplicate-only packets received
<i>rx-dup-bytes</i>	(Optional) duplicate-only bytes received
<i>rx-partdup-pack</i>	(Optional) packets with some duplicate data

<i>rx-partdup-bytes</i>	(Optional) dup. bytes in part-dup. packets
<i>rx-oo-pack</i>	(Optional) out-of-order packets received
<i>rx-oo-bytes</i>	(Optional) out-of-order bytes received
<i>rx-oo-drop-cnt</i>	(Optional) out-of-order drop count
<i>rx-afterwin-pack</i>	(Optional) packets with data after window
<i>rx-afterwin-bytes</i>	(Optional) bytes rcvd after window
<i>rx-afterclose-pack</i>	(Optional) packets rcvd after close
<i>rx-winprobe-pack</i>	(Optional) rcvd window probe packets
<i>rx-winupdate-pack</i>	(Optional) rcvd window update packets
<i>rx-dupack-pack</i>	(Optional) rcvd duplicate acks
<i>rx-dupack-unsent-pack</i>	(Optional) rcvd acks for unsent data
<i>rx-ack-pack</i>	(Optional) rcvd ack packets
<i>rx-ack-bytes</i>	(Optional) bytes acked by rcvd acks
<i>rx-rcv-memdrop</i>	(Optional) packets dropped for lack of memory
<i>rx-dig-mssing</i>	(Optional) digest missing
<i>rx-dig-unexpected</i>	(Optional) digest unexpected
<i>rx-dig-notused</i>	(Optional) digest not used
<i>rx-dig-valid</i>	(Optional) digest valid
<i>rx-dig-invalid</i>	(Optional) digest invalid
<i>rx-get-passwd-fail</i>	(Optional) get pass failed for RST
<i>rx-md5-mbuf-exded</i>	(Optional) md5 passwd exceeds mbuf
<i>rx-uspec-src-recv</i>	(Optional) Dropped Unspecified src pkt recieved
<i>rx-pkt-too-short</i>	(Optional) Dropped Packet too short
<i>rx-sin-finest</i>	(Optional) Dropped packet set with SYN/FIN
<i>rx-black-hole-syn</i>	(Optional) Dropped black hole SYN
<i>rx-black-hole</i>	(Optional) Dropped black hole
<i>rx-drop-no-inpcb</i>	(Optional) Dropped no inpcb
<i>rx-drop-notpcb</i>	(Optional) Dropped no tcpcb
<i>rx-drp-sock-closed</i>	(Optional) Dropped socket closed

<i>rx-syn-with-rst</i>	(Optional) Dropped SYN with reset
<i>rx-syn-drop</i>	(Optional) Dropped SYN
<i>rx-bandlim</i>	(Optional) Dropped Bandlim rst open port
<i>rx-forged-pkt</i>	(Optional) Dropped Same src/dst
<i>rx-drp-mbcast</i>	(Optional) Dropped Broadcast/Multicast
<i>rx-drp-syn-add</i>	(Optional) Dropped Adding SYN failed
<i>rx-drp-syn-recvd</i>	(Optional) ACK recvd not for our SYN
<i>rx-drp-cc-sent</i>	(Optional) Dropped cc sent
<i>rx-drp-rst-ccsent</i>	(Optional) Dropped cc sent with reset
<i>rx-frecv-enqueue</i>	(Optional) Fast recv packets enqueued
<i>rx-frecv-enqueue-fail</i>	(Optional) Fast recv enqueue failed
<i>rx-ftcp-cant-rcv-more</i>	(Optional) Fast TCP can not recv more
<i>rx-ftcp-data-ack-toapp-fail</i>	(Optional) Fast TCP data ACK to app failed
<i>rx-ftcp-data-ack-toapp</i>	(Optional) Fast TCP data ACK to app
<i>tx-total</i>	(Optional) total packets sent
<i>tx-urg</i>	(Optional) packets sent with URG only
<i>tx-ctrl</i>	(Optional) control (SYN FIN RST) packets sent
<i>tx-data-pack</i>	(Optional) data packets sent
<i>tx-data-bytes</i>	(Optional) data bytes sent
<i>tx-reasm-pack</i>	(Optional) data packets retransmitted
<i>tx-reasm-bytes</i>	(Optional) data bytes retransmitted
<i>tx-ackonly-pack</i>	(Optional) ack-only packets sent
<i>tx-winprobe-pack</i>	(Optional) window probes sent
<i>tx-winupdate-bytes</i>	(Optional) window update-only packets sent
<i>tx-encrypt</i>	(Optional) Encrypted packets sent
<i>tx-unencrypt</i>	(Optional) Unencrypted packets sent
<i>tx-md5rst</i>	(Optional) No of encrypted RST packets
<i>tx-conn-init</i>	(Optional) connections initiated
<i>tx-conn-accepted</i>	(Optional) connections accepted

<i>tx-conn-estd</i>	(Optional) connections established
<i>closed</i>	(Optional) conn. closed (includes drops)
<i>dropped</i>	(Optional) connections dropped
<i>emb-dropped</i>	(Optional) embryonic connections dropped
<i>tx-rxmt-timeout</i>	(Optional) total rxmt timeout
<i>tx-rxmt-timeout-dropped</i>	(Optional) connections dropped in rxmt timeout
<i>tx-ka-timeout</i>	(Optional) keepalive timeouts
<i>tx-ka-probe</i>	(Optional) keepalive probes sent
<i>tx-ka-drop</i>	(Optional) connections dropped in keepalive
<i>gen-seg-timed</i>	(Optional) segs where we tried to get rtt
<i>gen-rtt-updated</i>	(Optional) times we succeeded to get rtt
<i>gen-delack</i>	(Optional) delayed acks sent
<i>gen-persist-timeout</i>	(Optional) persist timeouts
<i>gen-paws-drop</i>	(Optional) segments dropped due to PAWS
<i>gen-predack</i>	(Optional) hdr predict ok for acks
<i>gen-preddat</i>	(Optional) hdr predict ok for data pkts
<i>gen-pcb-cachemiss</i>	(Optional) PCB cache miss
<i>gen-cache-drtt</i>	(Optional) times cached RTT in route updated
<i>gen-cache-drttvar</i>	(Optional) times cached rttvar updated
<i>gen-cached-ssthresh</i>	(Optional) times cached ssthresh updated
<i>gen-usedrtt</i>	(Optional) times RTT initialized from route
<i>gen-usedrttvar</i>	(Optional) times RTTVAR initialized from rt
<i>gen-usedssthresh</i>	(Optional) times ssthresh initialized from rt
<i>gen-persistdrop</i>	(Optional) timeout in persist state
<i>gen-badsyn</i>	(Optional) bogus SYN, e.g. premature ACK
<i>gen-mturesent</i>	(Optional) resends due to MTU discovery
<i>gen-list-endrop</i>	(Optional) listen queue overflows
<i>gen-rpm-bind-synsock</i>	(Optional) rpm bind in synsock
<i>gen-rpm-bindsynadd</i>	(Optional) rpm bind in synadd

<i>gen-rpm-bindlookup</i>	(Optional) rpm bind in lookup
<i>gen-rpm-bindsetsock</i>	(Optional) rpm bind in setsock
<i>gen-rpm-unbind-getpass</i>	(Optional) rpm unbind get pass
<i>gen-rpm-unbinduser1</i>	(Optional) rpm unbind by user
<i>gen-rpm-unbinduser2</i>	(Optional) rpm unbind by user1
<i>gen-rpm-unbindrollover</i>	(Optional) rpm unbind during rollover
<i>gen-rpm-unbind-synfree</i>	(Optional) rpm unbind in syn free
<i>gen-rpm-unbind-tpfree</i>	(Optional) rpm unbind in tp free
<i>syn-sc-added</i>	(Optional) entry added to syncache
<i>syn-retransmitted</i>	(Optional) syncache entry was retransmitted
<i>syn-dupsyn</i>	(Optional) duplicate SYN packet
<i>syn-dropped</i>	(Optional) could not reply to packet
<i>syn-completed</i>	(Optional) successful extraction of entry
<i>syn-bucket-overflow</i>	(Optional) syncache per-bucket limit hit
<i>syn-cache-overflow</i>	(Optional) syncache cache limit hit
<i>syn-sc-reset</i>	(Optional) RST removed entry from syncache
<i>syn-sc-stale</i>	(Optional) timed out or listen socket gone
<i>syn-sc-aborted</i>	(Optional) syncache entry aborted
<i>syn-sc-badack</i>	(Optional) removed due to bad ACK
<i>syn-sc-unreach</i>	(Optional) ICMP unreachable received
<i>syn-sc-zonefail</i>	(Optional) zalloc() failed
<i>syn-sc-sendcookie</i>	(Optional) SYN cookie sent
<i>syn-sc-recvcookie</i>	(Optional) SYN cookie received
<i>syn-sc-crosshits</i>	(Optional) crosshits on the SC blocks
<i>syn-sc-supsyncrosshits</i>	(Optional) crosshits dup SYN on SC block
<i>syn-sc-removecrosshits</i>	(Optional) crosshits on SC blocks to remove
<i>udp-rx-version</i>	(Optional) udp sockets version
<i>udp-rx-total</i>	(Optional) total udp packets
<i>udp-rx-bad-csum</i>	(Optional) udp checksum error

<i>udp-rx-no-csum</i>	(Optional) udp no checksum
<i>udp-rx-too-short</i>	(Optional) udp packets drops
<i>udp-rx-bad-len</i>	(Optional) udp bad length
<i>udp-rx-no-port</i>	(Optional) udp no port
<i>udp-rx-no-port-bcast</i>	(Optional) udp no port broadcast
<i>udp-rx-no-port-mcast</i>	(Optional) udp no port multicast
<i>udp-rx-full-socket-drop</i>	(Optional) udp dropped full socket
<i>udp-tx-total</i>	(Optional) udp total packets
<i>raw-rx-version</i>	(Optional) raw sockets version
<i>raw-rx-rcvd</i>	(Optional) raw sockets connection received
<i>raw-rx-no-port</i>	(Optional) raw socket no port
<i>raw-rx-full-socket-drop</i>	(Optional) raw socket full sockets drop
<i>raw-tx-sent</i>	(Optional) raw socket connection sent
<i>inpcb-tot-alloc</i>	(Optional) inpcb allocation
<i>inpcb-tot-bind</i>	(Optional) inpcb bind
<i>inpcb-tot-laddr</i>	(Optional) inpcb laddr
<i>inpcb-tot-connect</i>	(Optional) inpcb connect
<i>inpcb-tot-disconnect</i>	(Optional) inpcb disconnect
<i>inpcb-tot-detach</i>	(Optional) inpcb detach
<i>inpcb-tot-detach-noinc</i>	(Optional) inpcb detaach no increment
<i>inpcb-tot-detach-rort</i>	(Optional) inpcb detach no return
<i>inpcb-tot-rtfree</i>	(Optional) inpcb rt free
<i>inpcb-tot-setsock-addr</i>	(Optional) inpcb set socket address
<i>inpcb-tot-setpeeraddr</i>	(Optional) inpcb set peer address
<i>inpcb-tot-notify</i>	(Optional) inpcb notify
<i>inpcb-tot-lookup-npacl-deny</i>	(Optional) inpcb lookup hash npacl deny
<i>inpcb-tot-lookup-npacl-allow</i>	(Optional) inpcb lookup npacl allow
<i>inpcb-tot-inshash-ipv4</i>	(Optional) inpcb inshash ipv4
<i>inpcb-tot-inshash-ipv6</i>	(Optional) inpcb inshash ipv6

<i>inpcb-tot-brehash-ipv4</i>	(Optional) inpcb brehash ipv4
<i>inpcb-tot-brehash-ipv6</i>	(Optional) inpcb brehash ipv6
<i>inpcb-tot-bremhash</i>	(Optional) inpcb brehash
<i>inpcb-err-allocnomem</i>	(Optional) inpcb allocation no memory error
<i>inpcb-err-bindeinavl</i>	(Optional) inpcb bind inval error
<i>inpcb-err-eaddrinuse</i>	(Optional) inpcb eaddr in use error
<i>inpcb-err-eagain</i>	(Optional) inpcb eagain error
<i>inpcb-err-eagain2</i>	(Optional) inpcb eagain2 error
<i>inpcb-err-eaddrnotavail</i>	(Optional) inpcb eaddr not availableerror
<i>inpcb-err-eafnosupport</i>	(Optional) inpcb eaf no support error
<i>inpcb-err-enomem</i>	(Optional) inpcb no-memory error
<i>inpcb-err-ehostunreach</i>	(Optional) inpcb ehost unreachable error
<i>inpcb-err-laddr-enixio</i>	(Optional) inpcb laddr enxio error
<i>inpcb-err-laddr-ehostunreach2</i>	(Optional) inpcb laddr ehost unreachable2 error
<i>inpcb-err-connectladdr</i>	(Optional) inpcb connect laddr error
<i>inpcb-err-connect-eaddrinuse</i>	(Optional) inpcb connect eaddress in use error
<i>inpcb-err-connbind</i>	(Optional) inpcb connect bind error
<i>inpcb-err-sockaddrenomem</i>	(Optional) inpcb socket address no memory error
<i>inpcb-err-sockadreconnreset</i>	(Optional) inpcb socket address econnect reset error
<i>inpcb-err-peeraddr-enomem</i>	(Optional) inpcb peer address no memory error
<i>inpcb-err-econnrest</i>	(Optional) inpcb connection rest error
<i>inpcb-err-respond-enobufs</i>	(Optional) inpcb respond no buffer error
<i>inpcb-err-binshash-enobufs</i>	(Optional) inpcb binshash no buffer error
<i>in6pcb-tot-setport</i>	(Optional) in6pcb set port error
<i>in6pcb-tot-bind</i>	(Optional) in6pcb bind
<i>in6pcb-tot-laddr</i>	(Optional) in6pcb laddr
<i>in6pcb-tot-connect</i>	(Optional) in6pcb connect
<i>in6pcb-tot-disconnect</i>	(Optional) in6pcb disconnect
<i>in6pcb-tot-detach</i>	(Optional) in6pcb detach

<i>in6pcb-tot-sockaddr</i>	(Optional) in6pcb socket address
<i>in6pcb-tot-peeraddr</i>	(Optional) in6pcb peer address
<i>in6pcb-tot-notify</i>	(Optional) in6pcb notify
<i>in6pcb-tot-lookuplocal</i>	(Optional) in6pcb lookup local
<i>in6pcb-tot-hashnpacl-deny</i>	(Optional) in6pcb hash npacl deny
<i>in6pcb-err-setporteagain</i>	(Optional) in6pcb set port again error
<i>in6pcb-err-setporteagain2</i>	(Optional) in6pcb set port again2 error
<i>in6pcb-err-seteagain3</i>	(Optional) in6pcb set port again3 error
<i>in6pcb-bind-eafnosupport</i>	(Optional) in6pcb bind eaf no support error
<i>in6pcb-err-bindeaddrinuse</i>	(Optional) in6pcb bind address in use error
<i>in6pcb-err-bindeaddrinuse2</i>	(Optional) in6pcb bind address in use2 error
<i>in6pcb-err-bindeaddrinuse3</i>	(Optional) in6pcb bind address in use3 error
<i>in6pcb-err-bindeaddrinuse4</i>	(Optional) in6pcb bind address in use4 error
<i>in6pcb-err-bindsetport</i>	(Optional) in6pcb bind setport error
<i>in6pcb-err-bindeagain</i>	(Optional) in6pcb bind again error
<i>in6pcb-err-laddr-eafnosupport</i>	(Optional) in6pcb laddr eaf no support error
<i>in6pcb-err-eaddrnotavail</i>	(Optional) in6pcb address not available error
<i>in6pcb-err-laddr-enomem</i>	(Optional) in6pcb laddr no memory error
<i>in6pcb-err-laddr-ehostreach</i>	(Optional) in6pcb laddr host reach error
<i>in6pcb-err-laddr-ehostunreach2</i>	(Optional) in6pcb laddr host reach2 error
<i>in6pcb-err-laddr-ehostunreach3</i>	(Optional) in6pcb laddr host reach3 error
<i>in6pcb-err-laddr-ehostunreach4</i>	(Optional) in6pcb laddr host reach4 error
<i>in6pcb-err-laddr-enixio</i>	(Optional) in6pcb laddr enxio error
<i>in6pcb-err-connladdr</i>	(Optional) in6pcb connect laddr error
<i>in6pcb-err-conneaddrinuse</i>	(Optional) in6pcb connect eaddress in use error
<i>in6pcb-err-connbind</i>	(Optional) in6pcb connect bind error
<i>in6pcb-err-sockaddr-enomem</i>	(Optional) in6pcb socket address no memory error
<i>in6pcb-err-v4maps-enomem</i>	(Optional) in6pcb v4maps no memory error
<i>in6pcb-err-setsock-noinp</i>	(Optional) in6pcb set socket noinp error



<i>in6pcb-err-setpeer-noinp</i>	(Optional) in6pcb set peer noinp error
<i>in6pcb-err-sockaddr-noinp</i>	(Optional) in6pcb socket address noinp error
<i>in6pcb-err-peeraddr-noinp</i>	(Optional) in6pcb peer address noinp error
<i>in6pcb-err-notify-einavl</i>	(Optional) in6pcb notify ingress available error
<i>in6pcb-err-ctloutput-nosoopt</i>	(Optional) in6pcb control output no socket opt error

**Command Mode**

- /exec

# show sockets tcp keychain binding

```
show sockets tcp keychain binding [ __readonly__ { TABLE_keychain <keychain> <handle> <ref_count>
} ]
```

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
tcp	TCP information
keychain	Keychain information
binding	Binding information regarding RPM
<i>__readonly__</i>	(Optional)
<i>TABLE_keychain</i>	(Optional) all sockets tcp keychains
<i>keychain</i>	(Optional) xml keychain information
<i>handle</i>	(Optional) xml handle information
<i>ref_count</i>	(Optional) xml refcount information

## Command Mode

- /exec

# show software authenticity file

```
show software authenticity { file <uri0> | running } [ __readonly__ [ TABLE_filekey <image> <image_type>
<signer_cname> [ <signer_org_unit> ] <signer_org_name> <cert_serial_num> <hash_algo> <signature_algo>
[ <key_version> ] [ <verifier_name> <verifier_version> ] ] ]
```

## Syntax Description

show	show information
software	signifies information about current software
authenticity	signifies image signature
file	show verification information of a file
<i>uri0</i>	file to be verified
running	Show running image information
<i>__readonly__</i>	(Optional)
TABLE_filekey	(Optional) file signer information
<i>image</i>	(Optional) Image
<i>image_type</i>	(Optional) Image type
<i>signer_cname</i>	(Optional) Signer Common Name
<i>signer_org_unit</i>	(Optional) Signer Organization Unit
<i>signer_org_name</i>	(Optional) Signer Organization Name
<i>cert_serial_num</i>	(Optional) Certificate Serial Number
<i>hash_algo</i>	(Optional) Hash Algorithm Used
<i>signature_algo</i>	(Optional) Signature Algorithm Used
<i>key_version</i>	(Optional) key version used to sign this file
<i>verifier_name</i>	(Optional) verifier Image
<i>verifier_version</i>	(Optional) Verifier version

## Command Mode

- /exec

# show software authenticity keys

```
show software authenticity keys [ __readonly__ [ TABLE_sh_keys <key_num> <key_type> <pub_key_algo>
<modulus> <exponent> <key_version> [ <product_name> ] ] ]
```

## Syntax Description

show	show information
software	signifies information about current software
authenticity	signifies image signature
keys	show installed verification keys
__readonly__	(Optional)
TABLE_sh_keys	(Optional) table of device keys
<i>key_num</i>	(Optional) Key number
<i>key_type</i>	(Optional) Type of key record
<i>pub_key_algo</i>	(Optional) Public key algorithm
<i>modulus</i>	(Optional) Key Modulus
<i>exponent</i>	(Optional) Key exponent
<i>key_version</i>	(Optional) Key version
<i>product_name</i>	(Optional) Product name

## Command Mode

- /exec

## show spanning-tree

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] [ __readonly__ TABLE_tree <tree_id>
<tree_tree_type> <tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdus_in>
<bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prest> ] ] } | { show spanning-tree [ vlan <vlan-id> |
bridge-domain <bd-id> ] { <verbosity> | active } + [ __readonly__ TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdus_in>
<bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prest> ] ] }
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
<i>verbosity</i>	verbosity
active	Report on active interfaces only
<u>__readonly__</u>	(Optional) Read Only

TABLE_tree	(Optional)
<i>tree_id</i>	(Optional) Tree Id
<i>tree_tree_type</i>	(Optional) Tree Type
<i>tree_protocol</i>	(Optional) Tree Protocol
<i>port_count</i>	(Optional) Number of Ports in Tree
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_active</i>	(Optional) Spanning Tree State
<i>root_path_cost</i>	(Optional) Root Path Cost
<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>topology_change</i>	(Optional) Topology Change flag is set ?
<i>topology_change_detected</i>	(Optional) Topology Change detected flag is set ?
<i>topology_change_count</i>	(Optional) Topology Change Count
<i>topology_change_time_since_last</i>	(Optional) Time since last TC
<i>tc_initiator_if_index</i>	(Optional) Topology Change initiator port
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>hold_time</i>	(Optional) Configured Hold Time
<i>hello_timer</i>	(Optional) Hello Timer Value
<i>topology_change_timer</i>	(Optional) Topology Change Timer Value
<i>tcn_timer</i>	(Optional) TCN Timer Value

<i>aging_timer</i>	(Optional) Ageing Timer Value
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>vpc</i>	(Optional) STP Port memembr of MCT/VPC PO
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_protocol</i>	(Optional) Tree Protocol
<i>port_tree_type</i>	(Optional) Tree Type
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port

<i>bpdus_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>boundary</i>	(Optional) Is port boundary ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

### Command Mode

- /exec



# show spanning-tree blockedports

```
{ show spanning-tree [ vlan <vlan-id> ] blockedports [ __readonly__ [ TABLE_tree [ <port_info_tree_id> ]
[ TABLE_port [ <if_index> ] ] ] [ <tree_type> ] [ <num_ports> ] ] }
```

## Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
__readonly__	(Optional)
TABLE_tree	(Optional)
<i>port_info_tree_id</i>	(Optional) Tree name
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Port name
<i>tree_type</i>	(Optional) Tree Type
<i>num_ports</i>	(Optional) Number of Ports
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
blockedports	Show blocked ports

## Command Mode

- /exec

# show spanning-tree bridge

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ priority [ system-id ] ] [ __readonly__
{ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <bridge_mac> <bridge_priority>
<bridge_forward_delay> <bridge_max_age> <bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] bridge [ { detail | brief } ] [ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { address
| forward-time | hello-time | id | max-age | protocol } ] [ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] }
```

## Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
bridge	Status and configuration of this bridge
address	(Optional) Mac address of this bridge
forward-time	(Optional) Forward delay interval
hello-time	(Optional) Hello time
id	(Optional) Spanning tree bridge identifier
max-age	(Optional) Max age
protocol	(Optional) Spanning tree protocol
brief	(Optional) Brief summary of the status and configuration output
detail	(Optional) Detailed of the status and configuration
priority	(Optional) Bridge priority of this bridge
system-id	(Optional) Spanning tree priority with system id extension
__readonly__	(Optional) Read Only
TABLE_tree	(Optional)
<i>tree_id</i>	(Optional) Tree Id

<i>tree_tree_type</i>	(Optional) Tree Type
<i>tree_protocol</i>	(Optional) Tree Protocol
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time

**Command Mode**

- /exec

## show spanning-tree inconsistentports

```
{ show spanning-tree [ vlan <vlan-id> ] inconsistentports [ __readonly__ [ TABLE_tree <port_info_tree_id>
<if_index> <inconsistency> ] [ <tree_type> ] [ <num_ports> ] ] }
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
inconsistentports	Show inconsistent ports
<i>__readonly__</i>	(Optional)
TABLE_tree	(Optional)
<i>port_info_tree_id</i>	(Optional) Tree name
<i>if_index</i>	(Optional) Port name
<i>inconsistency</i>	(Optional) Inconsistency type
<i>tree_type</i>	(Optional) Tree Type
<i>num_ports</i>	(Optional) Number of Ports

### Command Mode

- /exec

# show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> ] interface <interface-id> { cost | inconsistency | edge | priority | rootcost
| state } [ __readonly__ [ TABLE_vlan_interface_info <tree_name> [ <cost> ] [ <edge> ] [ <inconsistency>
] [ <priority> ] [ <rootcost> ] [ <state> ] ] ] }
```

## Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	
cost	Port path cost
inconsistency	Port inconsistency state
edge	Edge Port configuration
priority	Port priority
rootcost	Path cost to root
state	Port spanning tree state
<i>__readonly__</i>	(Optional)
TABLE_vlan_interface_info	(Optional)
<i>tree_name</i>	(Optional) Spanning tree name
<i>cost</i>	(Optional) Path cost
<i>edge</i>	(Optional) Portfast enabled or not
<i>inconsistency</i>	(Optional) Port inconsistency
<i>priority</i>	(Optional) Port Priority
<i>rootcost</i>	(Optional) Designated Cost
<i>state</i>	(Optional) Port state

## Command Mode

- /exec

## show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> [ __readonly__ {
TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role> <port_priority> <port_number>
<port_protocol> <port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority>
<designated_cost> <designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> <oper_networkport> <forward_delay_timer> <hold_timer> <message_age>
<peer> <dispute> <pvstsim_inc_timer> [ <boundary> ] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd>
] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { <verbosity>
| active } + [ __readonly__ { TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role>
<port_priority> <port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdus_in>
<bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> <oper_networkport>
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ] }
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	
<i>verbosity</i>	verbosity
active	Report on active instances only
<i>__readonly__</i>	(Optional) Read Only
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>vpc</i>	(Optional) STP Port memembr of MCT/VPC PO
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>state</i>	(Optional) STP Port State

<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_protocol</i>	(Optional) Tree Protocol
<i>port_tree_type</i>	(Optional) Tree Type
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?

<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>boundary</i>	(Optional) Is port boundary ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

**Command Mode**

- /exec



## show spanning-tree issu-impact

```
show spanning-tree issu-impact [ __readonly__ [ TABLE_topology <tc_detected> <tc_name> <no_of_tc>
<time> <tc_string> ] [ TABLE_BA_ports <port_name> ] [ <criteria1> ] [ <criteria2> ] [
TABLE_non_edge_ports <port> <vlan> <role> <sts> <tree> <instance> ] [ <criteria3> ] ]
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
issu-impact	Show whether STP meets ISSU criteria
<i>__readonly__</i>	(Optional)
<i>TABLE_topology</i>	(Optional)
<i>tc_detected</i>	(Optional)
<i>tc_name</i>	(Optional)
<i>no_of_tc</i>	(Optional)
<i>time</i>	(Optional)
<i>tc_string</i>	(Optional)
<i>TABLE_BA_ports</i>	(Optional)
<i>port_name</i>	(Optional)
<i>TABLE_non_edge_ports</i>	(Optional)
<i>port</i>	(Optional)
<i>vlan</i>	(Optional)
<i>role</i>	(Optional)
<i>sts</i>	(Optional)
<i>tree</i>	(Optional)
<i>instance</i>	(Optional)
<i>criteria1</i>	(Optional)
<i>criteria2</i>	(Optional)
<i>criteria3</i>	(Optional)

### Command Mode

- /exec

## show spanning-tree mst

```
{ show spanning-tree mst [ <mst-id> ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol>
<port_count> <bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority>
<stp_active> <root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number>
<topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> <ist-master-id-mac> <ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops>
<txholdcount> <tree-vlan-map> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdus_in>
<bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary>
[ <simulate_pvst_cfg> ] <simulate_pvst> <prestd> [ <designated_ist_master> ] [
<designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ] } | { show spanning-tree mst
[ <mst-id> ] detail [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <port_count>
<bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority> <stp_active>
<root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number> <topology_change>
<topology_change_detected> <topology_change_count> <topology_change_time_since_last>
<tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age> <bridge_hello_time> <max_age>
<hello_time> <forward_delay> <hold_time> <hello_timer> <topology_change_timer> <tcn_timer>
<aging_timer> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <ist-master-id-mac>
<ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops> <txholdcount> <tree-vlan-map> TABLE_port
<if_index> <port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol>
<port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost>
<designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ] <forward_delay_timer> <hold_timer>
<message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst>
<prestd> [ <designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [
<vlan-map> ] ] }
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
detail	Detailed information
__readonly__	(Optional) Read Only
TABLE_tree	(Optional)

<i>tree_id</i>	(Optional) Tree Id
<i>tree_tree_type</i>	(Optional) Tree Type
<i>tree_protocol</i>	(Optional) Tree Protocol
<i>port_count</i>	(Optional) Number of Ports in Tree
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_active</i>	(Optional) Spanning Tree State
<i>root_path_cost</i>	(Optional) Root Path Cost
<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>topology_change</i>	(Optional) Topology Change flag is set ?
<i>topology_change_detected</i>	(Optional) Topology Change detected flag is set ?
<i>topology_change_count</i>	(Optional) Topology Change Count
<i>topology_change_time_since_last</i>	(Optional) Time since last TC
<i>tc_initiator_if_index</i>	(Optional) Topology Change initiator port
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>hold_time</i>	(Optional) Configured Hold Time
<i>hello_timer</i>	(Optional) Hello Timer Value
<i>topology_change_timer</i>	(Optional) Topology Change Timer Value
<i>tcn_timer</i>	(Optional) TCN Timer Value
<i>aging_timer</i>	(Optional) Ageing Timer Value

<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>ist-master-id-mac</i>	(Optional) IST Master ID MAC address
<i>ist-master-prio</i>	(Optional) IST Master ID priority
<i>ist-path-cost</i>	(Optional) IST path cost
<i>remaining-hops</i>	(Optional) Remaining hops
<i>max-hops</i>	(Optional) Max Hops
<i>txholdcount</i>	(Optional) TX Hold count
<i>tree-vlan-map</i>	(Optional) Bitmap of vlans mapped to tree
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id

<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdu_in</i>	(Optional) BPDUs received on this stp port
<i>bpdu_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer
<i>peer</i>	(Optional) STP protocol of the peer
<i>boundary</i>	(Optional) Is port boundary ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>dispute</i>	(Optional) Is port Disputed ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>designated_ist_master</i>	(Optional) Ist master mac
<i>designated_ist_master_priority</i>	(Optional) Ist master priority
<i>designated_ist_cost</i>	(Optional) Ist master path cost

<i>vlan-map</i>	(Optional) Bitmap of vlans mapped to port
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

**Command Mode**

- /exec

## show spanning-tree mst configuration

```
{ show spanning-tree mst configuration [ __readonly__ <stp-mode> <name> <rev-id> {
TABLE_instance_to_vlan_map <mst_id> <vlan_bit_map> } [ <pvlan-sync> ] ] }
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
configuration	MST current region configuration
__readonly__	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>name</i>	(Optional) Configuration name
<i>rev-id</i>	(Optional) Configuration revision number
TABLE_instance_to_vlan_map	(Optional) Instance to vlan mapping Info
<i>mst_id</i>	(Optional) MST Instance ID
<i>vlan_bit_map</i>	(Optional) VLAN Bitmap
<i>pvlan-sync</i>	(Optional) pvlan synchronization

### Command Mode

- /exec

## show spanning-tree mst configuration digest

```
{ show spanning-tree mst configuration digest [ __readonly__ <stp-mode> <name> <rev-id> <digest>
<prestd-digest> [ <pvlan-sync> ] ] }
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
configuration	MST current region configuration
digest	Display MST configuration digest
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>name</i>	(Optional) Configuration name
<i>rev-id</i>	(Optional) Configuration revision number
<i>digest</i>	(Optional) MST region configuration digest
<i>prestd-digest</i>	(Optional) MST region configuration pre-std digest
<i>pvlan-sync</i>	(Optional) pvlan synchronization

### Command Mode

- /exec



## show spanning-tree mst interface

```
{ show spanning-tree mst [ <mst-id> ] interface <interface-id> [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [
<oper_networkport> ] <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> [
<pvstsim_inc_timer> ] <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst> <prestd> [
<designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ]
} | { show spanning-tree mst [ <mst-id> ] interface <interface-id> detail [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [
<oper_networkport> ] <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> [
<pvstsim_inc_timer> ] <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst> <prestd> [
<designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ]
}
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
mst	Multiple spanning trees
<i>mst-id</i>	(Optional) MST instance range, example: 0-3,5,7-9
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	Specify an interface as a target for the command
detail	Detailed information
__readonly__	(Optional) Read Only
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number

<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>bpdus_in</i>	(Optional) BPDUs received on this stp port
<i>bpdus_out</i>	(Optional) BPDUs send on this stp port
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>link_type</i>	(Optional) Link type configured on this port
<i>port_guard</i>	(Optional) Port Guard mode of port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_portfast</i>	(Optional) Is portfast enabled ?
<i>oper_p2p</i>	(Optional) Is port P2P ?
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>oper_bpduguard</i>	(Optional) Is bpduguard enabled ?
<i>oper_bpdufilter</i>	(Optional) Is bpdufilter enabled ?
<i>int_bpdufilter</i>	(Optional) Is internal bpdufilter enabled ?
<i>forward_delay_timer</i>	(Optional) Forward Delay timer
<i>hold_timer</i>	(Optional) Hold Timer
<i>message_age</i>	(Optional) Message age timer

<i>peer</i>	(Optional) STP protocol of the peer
<i>boundary</i>	(Optional) Is port boundary ?
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>dispute</i>	(Optional) Is port Disputed ?
<i>prestd</i>	(Optional) Is port Pre STD MST ?
<i>designated_ist_master</i>	(Optional) Ist master mac
<i>designated_ist_master_priority</i>	(Optional) Ist master priority
<i>designated_ist_cost</i>	(Optional) Ist master path cost
<i>vlan-map</i>	(Optional) Bitmap of vlans mapped to port
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer
<i>simulate_pvst_cfg</i>	(Optional) PVST Simulation configured on port

**Command Mode**

- /exec

# show spanning-tree pathcost method

```
{ show spanning-tree pathcost method [ __readonly__ <stp-pathcost-method> [ <stp-operpathcost-method> ] ] }
```

## Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
pathcost	Show Spanning pathcost options
method	Default pathcost calculation method
<code>__readonly__</code>	(Optional)
<i>stp-pathcost-method</i>	(Optional) STP Pathcost Method
<i>stp-operpathcost-method</i>	(Optional) STP Pathcost Method

## Command Mode

- /exec

## show spanning-tree root

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ priority [ system-id ] ] [ __readonly__
TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { address | cost | forward-time | hello-time | id | max-age | port } ] [
__readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { detail | brief } ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <tree_designated_root> <tree_designated_root_priority> <root_path_cost>
<root_port_if_index> <root_port_priority> <root_port_number> <max_age> <hello_time> <forward_delay>
] } }
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
root	Status and configuration of the root bridge
address	(Optional) Mac address of this bridge
cost	(Optional) Path cost from this bridge to the root
forward-time	(Optional) Forward delay interval
hello-time	(Optional) Hello time
id	(Optional) Spanning tree bridge identifier
max-age	(Optional) Max age
port	(Optional) Root port
brief	(Optional) Brief summary of interface information
detail	(Optional) Detailed information
priority	(Optional) Bridge priority of this bridge
system-id	(Optional) Spanning tree priority with system id extension
__readonly__	(Optional) Read Only

TABLE_tree	(Optional)
<i>tree_id</i>	(Optional) Tree Id
<i>tree_tree_type</i>	(Optional) Tree Type
<i>tree_protocol</i>	(Optional) Tree Protocol
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>root_path_cost</i>	(Optional) Root Path Cost
<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay

**Command Mode**

- /exec

## show spanning-tree summary

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] summary [ __readonly__ <stp-mode> [
<stp_tree_root_info> <tree_type> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> ] + [ <stp_root_bmp_info> <stp_root_tree_type> <tree_root_bmp>
<stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> [ <stp_l2gstp_bmp> ] ] <stp_global_info> <pcost_method>
<oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter> <oper_loopguard> <bridge_assurance>
<networkport_default> <simulate_pvst> <max-hops> <peer_switch_cfg> <oper_peer_switch>
<stp_l2gstp_domain_id> <stp_lite> [ TABLE tree <stp_tree_summary> <summary_tree_type> <disabled>
<blocking> <listening> <learning> <forwarding> <invalid> <port_count> ] [ <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ] ]
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
vlan	(Optional) VLAN Switch Spanning Trees
bridge-domain	(Optional) Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	(Optional) vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
summary	Summary of port states
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>stp_tree_root_info</i>	(Optional) STP Tree Root info marker
<i>tree_type</i>	(Optional) Tree Type
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_root_bmp_info</i>	(Optional) STP root bitmap info marker
<i>stp_root_tree_type</i>	(Optional) Tree Type
<i>tree_root_bmp</i>	(Optional) STP tree root bmp
<i>stp_l2gstp_bmp_info</i>	(Optional) L2 Gateway STP bitmap marker
<i>stp_l2gstp_tree_type</i>	(Optional) Tree Type

<i>stp_l2gstp_bmp</i>	(Optional) L2 Gateway STP bitmap
<i>stp_global_info</i>	(Optional) STP global info marker
<i>pcost_method</i>	(Optional) STP pathcost method
<i>oper_pcost_method</i>	(Optional) STP oper pathcost method
<i>port_fast</i>	(Optional) Port Fast configured on port
<i>bpdu_guard</i>	(Optional) Bpdu Guard mode configured
<i>bpdu_filter</i>	(Optional) Bpdu Filter mode configured
<i>oper_loopguard</i>	(Optional) Is loopguard enabled ?
<i>bridge_assurance</i>	(Optional) Bridge Assurance
<i>networkport_default</i>	(Optional) Network Port default
<i>simulate_pvst</i>	(Optional) Is port is pvst simulate mode ?
<i>max-hops</i>	(Optional) Max Hops
<i>peer_switch_cfg</i>	(Optional) peer switch configuration status
<i>oper_peer_switch</i>	(Optional) peer switch operational status
<i>stp_l2gstp_domain_id</i>	(Optional) L2 Gateway STP Domain ID
<i>stp_lite</i>	(Optional) STP-Lite
TABLE_tree	(Optional)
<i>stp_tree_summary</i>	(Optional) STP Tree Summary
<i>summary_tree_type</i>	(Optional) Tree Type
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>port_count</i>	(Optional) Number of Ports in Tree
<i>stp_summary_totals</i>	(Optional) Total num STP trees
<i>total_tree_type</i>	(Optional) Tree Type
<i>disabled</i>	(Optional) Number of ports Disabled



<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>port_count</i>	(Optional) Number of Ports in Tree

**Command Mode**

- /exec

## show spanning-tree summary totals

```
show spanning-tree summary totals [ __readonly__ <stp-mode> <stp_tree_root_info> <tree_type>
<bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority> <stp_root_bmp_info>
<stp_root_tree_type> <tree_root_bmp> <stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> <stp_l2gstp_bmp>
<stp_global_info> <pcost_method> <oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter>
<oper_loopguard> <bridge_assurance> <networkport_default> <simulate_pvst> <max-hops>
<peer_switch_cfg> <oper_peer_switch> <stp_l2gstp_domain_id> <stp_lite> <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ]
```

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
summary	Summary of port states
totals	Only show totals
<i>__readonly__</i>	(Optional) Read Only
<i>stp-mode</i>	(Optional) Spanning Tree operating mode
<i>stp_tree_root_info</i>	(Optional) STP Tree Root info marker
<i>tree_type</i>	(Optional) Tree Type
<i>bridge_mac</i>	(Optional) Bridge Mac
<i>bridge_priority</i>	(Optional) Bridge Priority
<i>tree_designated_root</i>	(Optional) Designated Root Mac
<i>tree_designated_root_priority</i>	(Optional) Designated Root Priority
<i>stp_root_bmp_info</i>	(Optional) STP root bitmap info marker
<i>stp_root_tree_type</i>	(Optional) Tree Type
<i>tree_root_bmp</i>	(Optional) STP tree root bmp
<i>stp_l2gstp_bmp_info</i>	(Optional) L2 Gateway STP bitmap marker
<i>stp_l2gstp_tree_type</i>	(Optional) Tree Type
<i>stp_l2gstp_bmp</i>	(Optional) L2 Gateway STP bitmap
<i>stp_global_info</i>	(Optional) STP global info marker
<i>pcost_method</i>	(Optional) STP pathcost method
<i>oper_pcost_method</i>	(Optional) STP oper pathcost method
<i>port_fast</i>	(Optional) Port Fast configured on port

<i>bpdguard</i>	(Optional) Bpdu Guard mode configured
<i>bpdfilter</i>	(Optional) Bpdu Filter mode configured
<i>operloopguard</i>	(Optional) Is loopguard enabled ?
<i>bridgeassurance</i>	(Optional) Bridge Assurance
<i>networkportdefault</i>	(Optional) Network Port default
<i>simulatepvst</i>	(Optional) Is port is pvst simulate mode ?
<i>maxhops</i>	(Optional) Max Hops
<i>peerswitchcfg</i>	(Optional) peer switch configuration status
<i>operpeerswitch</i>	(Optional) peer switch operational status
<i>stp_l2gstp_domain_id</i>	(Optional) L2 Gateway STP Domain ID
<i>stp_lite</i>	(Optional) STP-Lite
<i>stp_summary_totals</i>	(Optional) Total num STP trees
<i>total_tree_type</i>	(Optional) Tree Type
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>port_count</i>	(Optional) Number of Ports in Tree

### Command Mode

- /exec

# show sprom

```
show sprom { backplane <i0> | module <module> <i1> | xbar <santa-cruz-range> <i2> | powersupply <i3>
| fan <i4> | sup | stby-sup | all | all2 | backplane2 | module2 <module2> | powersupply2 <i5> | sup2 } [
__readonly__ [ cmn_block { <blk_sig_cb> <blk_ver_cb> <blk_length_cb> <blk_checksum_cb> <eeprom_size>
<blk_count> <fru_major_type> <fru_minor_type> <oem_string> <prd_num> <serial_num> <part_num>
<part_rev> <mfg_dev> <hw_rev> <mfg_bits> <eng_use> <snmp_oid> <power_consump> <rma_code>
<clei_code> <vid> } ] [ sup_specific_block { <blk_sig_ssb> <blk_ver_ssb> <blk_length_ssb>
<blk_checksum_ssb> <feature_bits> <hw_changes_bits> <card_index> <mac_addresses> <no_of_macs>
<no_of_epld> [ TABLE_epld_ssb <epld_name_ssb> <epld_ver_ssb> ] <port_type_num> { TABLE_sensor_ssb
<sensor_num_ssb> <maj_thres_ssb> <min_thres_ssb> } <max_connector_power> <cooling_req> <amb_temp>
} ] [ lc_specific_block { <blk_sig_lc> <blk_ver_lc> <blk_length_lc> <blk_checksum_lc> <feature_bits>
<hw_changes_bits> <card_index> <mac_addresses> <no_of_macs> <no_of_epld> [ TABLE_epld_lc
<epld_name_lc> <epld_ver_lc> ] <port_type_num> { TABLE_sensor_lc <sensor_num_lc> <maj_thres_lc>
<min_thres_lc> } <max_connector_power> <cooling_req> <amb_temp> } ] [ ps_specific_block {
<blk_sig_psb> <blk_ver_psb> <blk_length_psb> <blk_checksum_psb> <feature_bits> <current_110v>
<current_220v> <stackmib_oid> } ] [ fan_specific_block { <blk_sig_fsb> <blk_ver_fsb> <blk_length_fsb>
<blk_checksum_fsb> <feature_bits> <hw_change_bits> <stackmib_oid> <cooling_capacity> <amb_temp>
} ] [ ch_specific_block { <blk_sig_csb> <blk_ver_csb> <blk_length_csb> <blk_checksum_csb> <feature_bits>
<hw_changes_bits> <stackmib_oid> <mac_addresses> <no_of_macs> <oem_enterprise> <oem_mib_offset>
<max_connector_power> } ] [ temp_sensor_block { <blk_sig_tsb> <blk_ver_tsb> <blk_length_tsb>
<blk_checksum_tsb> <no_of_sensors> { TABLE_sensor_tsb <sensor_num_tsb> <maj_thres_tsb>
<min_thres_tsb> } } ] [ wwn_specific_block { <blk_sig_wwnb> <blk_ver_wwnb> <blk_length_wwnb>
<blk_checksum_wwnb> { TABLE_wwn_usage_wsb <wwn_usage_bits> } } ] [ lic_specific_block {
<blk_sig_licb> <blk_ver_licb> <blk_length_licb> <blk_checksum_licb> { TABLE_lic_usage_lsb
<lic_usage_bits> } } ] [ second_serial_block { <blk_sig_sn2b> <blk_ver_sn2b> <blk_length_sn2b>
<blk_checksum_sn2b> <serial_num_sn2b> } ] [ psu_common_block { <format_version> <internal_info_offset>
<chassis_info_offset> <board_info_offset> <product_info_offset> <multirecord_info_offset> <checksum>
} ] [ psu_board_info_block { <format_version> <length> <language_code> <mfg_date> <mfg_type>
<mfg_info> <name_type> <product_name> <snum_type> <snum> <part_type> <partnum> <fruid_type>
<fruid> <bom_hw_pid_info> <partnum_rev> <fab_revision> <vid> <clei_len> <clei> <eof_marker> <csum>
} ] [ psu_product_info_block { <format_version> <length> <language_code> <mfg_type> <mfg_info>
<name_type> <product_name> <part_type> <partnum> <product_ver_type> <sw_certification> <snum_type>
<snum> <asset_type> <asset_string> <fruid_type> <fruid> <partnumrev> <vid> <eof_marker> <csum> } ]
[ psu_record_info_block { <record_type> <record_info> <record_len> <record_csum> <header_csum>
<record_identifier> <format_ver> <standby_pwr_budget> <psu_class> <psu_watts> } ] ]
```

## Syntax Description

show	Show running system information
sprom	show SPROM contents
backplane	show backplane clock module sprom contents
<i>i0</i>	please enter instance of backplane sprom
module	show linecard module sprom contents
<i>module</i>	please enter module number
<i>i1</i>	please enter instance of module sprom

xbar	show xbar fabric sprom contents
<i>santa-cruz-range</i>	please enter the xbar number
<i>i2</i>	please enter sprom instance number
powersupply	show powersupply sprom contents
<i>i3</i>	please enter powersupply number
fan	show fan module sprom contents
<i>i4</i>	please enter fan number
sup	show supervisor sprom contents
stby-sup	show standby supervisor sprom contents
all	show all sproms contents
all2	All sprom contents
backplane2	Backplane sprom contents
module2	Linecard sprom contents
<i>module2</i>	Linecard module number
powersupply2	Powersupply sprom contents
<i>i5</i>	Powersupply module number
sup2	Supervisor sprom contents
<i>__readonly__</i>	(Optional)
<i>cmn_block</i>	(Optional)
<i>blk_sig_cb</i>	(Optional)
<i>blk_ver_cb</i>	(Optional)
<i>blk_length_cb</i>	(Optional)
<i>blk_checksum_cb</i>	(Optional)
<i>eeeprom_size</i>	(Optional)
<i>blk_count</i>	(Optional)
<i>fru_major_type</i>	(Optional)
<i>fru_minor_type</i>	(Optional)
<i>oem_string</i>	(Optional)
<i>prd_num</i>	(Optional)

<i>serial_num</i>	(Optional)
<i>part_num</i>	(Optional)
<i>part_rev</i>	(Optional)
<i>mfg_dev</i>	(Optional)
<i>hw_rev</i>	(Optional)
<i>mfg_bits</i>	(Optional)
<i>eng_use</i>	(Optional)
<i>snmp_oid</i>	(Optional)
<i>power_consump</i>	(Optional)
<i>rma_code</i>	(Optional)
<i>clei_code</i>	(Optional)
<i>vid</i>	(Optional)
<i>ch_specific_block</i>	(Optional)
<i>blk_sig_csb</i>	(Optional)
<i>blk_ver_csb</i>	(Optional)
<i>blk_length_csb</i>	(Optional)
<i>blk_checksum_csb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)
<i>oem_enterprise</i>	(Optional)
<i>oem_mib_offset</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>sup_specific_block</i>	(Optional)
<i>blk_sig_ssb</i>	(Optional)
<i>blk_ver_ssb</i>	(Optional)
<i>blk_length_ssb</i>	(Optional)

<i>blk_checksum_ssb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>card_index</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)
<i>no_of_epld</i>	(Optional)
TABLE_epld_ssb	(Optional)
<i>epld_name_ssb</i>	(Optional)
<i>epld_ver_ssb</i>	(Optional)
<i>port_type_num</i>	(Optional)
TABLE_sensor_ssb	(Optional)
<i>sensor_num_ssb</i>	(Optional)
<i>maj_thres_ssb</i>	(Optional)
<i>min_thres_ssb</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</i>	(Optional)
lc_specific_block	(Optional)
<i>blk_sig_lc</i>	(Optional)
<i>blk_ver_lc</i>	(Optional)
<i>blk_length_lc</i>	(Optional)
<i>blk_checksum_lc</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>card_index</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)
<i>no_of_epld</i>	(Optional)

TABLE_epld_lc	(Optional)
<i>epld_name_lc</i>	(Optional)
<i>epld_ver_lc</i>	(Optional)
<i>port_type_num</i>	(Optional)
TABLE_sensor_lc	(Optional)
<i>sensor_num_lc</i>	(Optional)
<i>maj_thres_lc</i>	(Optional)
<i>min_thres_lc</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</i>	(Optional)
ps_specific_block	(Optional)
<i>blk_sig_psb</i>	(Optional)
<i>blk_ver_psb</i>	(Optional)
<i>blk_length_psb</i>	(Optional)
<i>blk_checksum_psb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>current_110v</i>	(Optional)
<i>current_220v</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
fan_specific_block	(Optional)
<i>blk_sig_fsb</i>	(Optional)
<i>blk_ver_fsb</i>	(Optional)
<i>blk_length_fsb</i>	(Optional)
<i>blk_checksum_fsb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_change_bits</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
<i>cooling_capacity</i>	(Optional)



<i>amb_temp</i>	(Optional)
temp_sensor_block	(Optional)
<i>blk_sig_tsb</i>	(Optional)
<i>blk_ver_tsb</i>	(Optional)
<i>blk_length_tsb</i>	(Optional)
<i>blk_checksum_tsb</i>	(Optional)
<i>no_of_sensors</i>	(Optional)
TABLE_sensor_tsb	(Optional)
<i>sensor_num_tsb</i>	(Optional)
<i>maj_thres_tsb</i>	(Optional)
<i>min_thres_tsb</i>	(Optional)
wwn_specific_block	(Optional)
<i>blk_sig_wwnb</i>	(Optional)
<i>blk_ver_wwnb</i>	(Optional)
<i>blk_length_wwnb</i>	(Optional)
<i>blk_checksum_wwnb</i>	(Optional)
TABLE_wwn_usage_wsb	(Optional)
<i>wwn_usage_bits</i>	(Optional)
lic_specific_block	(Optional)
<i>blk_sig_licb</i>	(Optional)
<i>blk_ver_licb</i>	(Optional)
<i>blk_length_licb</i>	(Optional)
<i>blk_checksum_licb</i>	(Optional)
TABLE_lic_usage_lsb	(Optional)
<i>lic_usage_bits</i>	(Optional)
second_serial_block	(Optional)
<i>blk_sig_sn2b</i>	(Optional)
<i>blk_ver_sn2b</i>	(Optional)
<i>blk_length_sn2b</i>	(Optional)

<i>blk_checksum_sn2b</i>	(Optional)
<i>serial_num_sn2b</i>	(Optional)
<i>psu_common_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>internal_info_offset</i>	(Optional)
<i>chassis_info_offset</i>	(Optional)
<i>board_info_offset</i>	(Optional)
<i>product_info_offset</i>	(Optional)
<i>multirecord_info_offset</i>	(Optional)
<i>checksum</i>	(Optional)
<i>psu_board_info_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>length</i>	(Optional)
<i>language_code</i>	(Optional)
<i>mfg_date</i>	(Optional)
<i>mfg_type</i>	(Optional)
<i>mfg_info</i>	(Optional)
<i>name_type</i>	(Optional)
<i>product_name</i>	(Optional)
<i>snum_type</i>	(Optional)
<i>snum</i>	(Optional)
<i>part_type</i>	(Optional)
<i>partnum</i>	(Optional)
<i>fruid_type</i>	(Optional)
<i>fruid</i>	(Optional)
<i>bom_hw_pid_info</i>	(Optional)
<i>partnum_rev</i>	(Optional)
<i>fab_revision</i>	(Optional)
<i>vid</i>	(Optional)

<i>clei_len</i>	(Optional)
<i>clei</i>	(Optional)
<i>eof_marker</i>	(Optional)
<i>csum</i>	(Optional)
<i>psu_product_info_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>length</i>	(Optional)
<i>language_code</i>	(Optional)
<i>mfg_type</i>	(Optional)
<i>mfg_info</i>	(Optional)
<i>name_type</i>	(Optional)
<i>product_name</i>	(Optional)
<i>part_type</i>	(Optional)
<i>partnum</i>	(Optional)
<i>product_ver_type</i>	(Optional)
<i>sw_certification</i>	(Optional)
<i>snum_type</i>	(Optional)
<i>snum</i>	(Optional)
<i>asset_type</i>	(Optional)
<i>asset_string</i>	(Optional)
<i>fruid_type</i>	(Optional)
<i>fruid</i>	(Optional)
<i>partnumrev</i>	(Optional)
<i>vid</i>	(Optional)
<i>eof_marker</i>	(Optional)
<i>csum</i>	(Optional)
<i>psu_record_info_block</i>	(Optional)
<i>record_type</i>	(Optional)
<i>record_info</i>	(Optional)

<i>record_len</i>	(Optional)
<i>record_csum</i>	(Optional)
<i>header_csum</i>	(Optional)
<i>record_identifier</i>	(Optional)
<i>format_ver</i>	(Optional)
<i>standby_pwr_budget</i>	(Optional)
<i>psu_class</i>	(Optional)
<i>psu_watts</i>	(Optional)

**Command Mode**

- /exec

# show srte pce ipv4 peer

```
show srte pce ipv4 peer [ <pce_address> ] [ __readonly__ [ TABLE_peer <pce_address> <pcc_address>
<precedence> <state> ] ]
```

## Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
pce	Show PCC related information
ipv4	Show ipv4 pcc information
peer	Show PCE peers
<i>pce_address</i>	(Optional) PCE address of the peer
<i>__readonly__</i>	(Optional)
TABLE_peer	(Optional) Table with a list of peers
<i>pce_address</i>	(Optional) Address of the PCE
<i>pcc_address</i>	(Optional) Address of the PCC
<i>precedence</i>	(Optional) Configured precedence of the PCE
<i>state</i>	(Optional) State of the PCE connection

## Command Mode

- /exec

## show srte policy

```
show srte policy [ { <policy_name_val> } | { color <color_val> endpoint { <end_point_val> | <ipv6-addr>
} } | { policy-id <policy_id_val> } ] [ holddown ] [ detail ] [ __readonly__ [ TABLE_policy <policy_name>
[ <source> ] <end_point> <state> <col> { <binding_label> | <binding_sid> } <policy_id> [ <policy_owner>
] [ <flags> ] [ <holddown_time> ] [ TABLE_pref <pref> [ TABLE_paths { <exp_path_name> |
<deleg_pce_addr> } [ TABLE_index <index> <label> ] [ <proactive_monitoring_session_id> ] [
<proactive_monitoring_session_state> ] ] ] ] ]
```

### Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
policy	Show existing policies
color	(Optional) Show policies with the color
endpoint	(Optional) Show Policies with the destination
<i>end_point_val</i>	(Optional) Endpoint for the policy
<i>policy_name_val</i>	(Optional) Policy name of the policy
<i>color_val</i>	(Optional) Color of the policy
<i>policy_id_val</i>	(Optional) Policy_id of the policy
policy-id	(Optional) Show Policy for the policy-id
holddown	(Optional) Show Policies that are in holddown
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_policy	(Optional) Table with a list of policies
<i>policy_name</i>	(Optional) Unique name for the policy
<i>end_point</i>	(Optional) Endpoint for the policy
<i>source</i>	(Optional) Source address of the policy
<i>state</i>	(Optional) State of the policy
<i>col</i>	(Optional) Color of the policy
<i>binding_label</i>	(Optional) Binding label of the policy
<i>binding_sid</i>	(Optional) Binding sid of the policy
<i>policy_id</i>	(Optional) Policy ID

<i>policy_owner</i>	(Optional) Policy Owners
<i>flags</i>	(Optional) Policy Flags
<i>holddown_time</i>	(Optional) Time when the policy was put in holddown
TABLE_pref	(Optional) Table with a list of candidate path based on pref
<i>pref</i>	(Optional) Preference for candidate paths
TABLE_paths	(Optional) Table with a list of exp path for pref
<i>exp_path_name</i>	(Optional) Name of the explicit-path
<i>deleg_pce_addr</i>	(Optional) Delegated PCE Address
TABLE_index	(Optional) Table with a list of index for the exp path
<i>index</i>	(Optional) Index for the explicit path
<i>label</i>	(Optional) Label for the explicit path
<i>proactive_monitoring_session_id</i>	(Optional) Proactive monitoring session ID
<i>proactive_monitoring_session_state</i>	(Optional) Proactive monitoring session state

**Command Mode**

- /exec

# show srte policy fh

```
show srte policy fh [ __readonly__ [ TABLE_fh [ { <label> | <srv6sid> | <ipv4endpt> } <type> <state> ] [
TABLE_index [ <index> <ip_addr> <mask_len> ] ] ] ]
```

## Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
policy	Show existing policies
fh	Show existing policies firsthop state
__readonly__	(Optional)
TABLE_fh	(Optional) Table with a list of first hops
<i>label</i>	(Optional) First hop label
<i>srv6sid</i>	(Optional) First hop SRv6 SID
<i>ipv4endpt</i>	(Optional) First hop IPv4 ENDPT
<i>type</i>	(Optional) First hop type
<i>state</i>	(Optional) First hop state
TABLE_index	(Optional) Table with index for the first hop
<i>index</i>	(Optional) Index for the first hop
<i>ip_addr</i>	(Optional) Monitored address
<i>mask_len</i>	(Optional) Mask length

## Command Mode

- /exec





## show srte policy summary

```
show srte policy summary [ __readonly__ <total_policies> <adminup_policies> <admindown_policies>
<operup_policies> <operdown_policies> <total_candipath> <active_candipath> <inactive_candipath>
<total_fh> <label_fh> <ip_fh> <ipv6_fh> <label_fh_up> <label_fh_down> <ip_fh_up> <ip_fh_down>
<ipv6_fh_up> <ipv6_fh_down> ]
```

### Syntax Description

show	Show running system information
srte	Show Segment-Routing Traffic Eng commands
policy	Show existing policies
summary	Show policy summary info
<i>__readonly__</i>	(Optional)
<i>total_policies</i>	(Optional) Count of total srte policies
<i>adminup_policies</i>	(Optional) Count of total admin up srte policies
<i>admindown_policies</i>	(Optional) Count of total admin down srte policies
<i>operup_policies</i>	(Optional) Count of total operational up srte policies
<i>operdown_policies</i>	(Optional) Count of total operational dpwn srte policies
<i>total_candipath</i>	(Optional) Count of total srte candidate paths
<i>active_candipath</i>	(Optional) Count of total active srte candidate paths
<i>inactive_candipath</i>	(Optional) Count of total inactive srte candidate paths
<i>total_fh</i>	(Optional) Count of total srte first hops
<i>label_fh</i>	(Optional) Count of total srte label first hops
<i>ip_fh</i>	(Optional) Count of total srte ip first hop
<i>ipv6_fh</i>	(Optional) Count of total srte ipv6 first hop
<i>label_fh_up</i>	(Optional) Count of total up srte label first hops
<i>label_fh_down</i>	(Optional) Count of total down srte label first hops
<i>ip_fh_up</i>	(Optional) Count of total up srte ip first hop
<i>ip_fh_down</i>	(Optional) Count of total down srte ip first hop
<i>ipv6_fh_up</i>	(Optional) Count of total up srte ipv6 first hop
<i>ipv6_fh_down</i>	(Optional) Count of total down srte ipv6 first hop

### Command Mode

- /exec

## show srv6 clients

```
show srv6 clients [ __readonly__ TABLE_client <name> <id> <state> <createtime> <modifytime> <pid>
<epid> <notifysid> <mtsqh> <mtssap> [ TABLE_msgs_rcvd <Register> <State_Change> <SID_add>
<SID_del> ] [ TABLE_msgs_sent <Locator_add> <Locator_del> <Loc_Down_Pending> <Locator_Down>
<Sid_add_ack> <Sid_del_ack> <Sid_add> <Sid_del> <Encap_add> <Encap_del> ] ]
```

### Syntax Description

show	Show running system information
srv6	srv6
clients	Sid Manager Client
<i>__readonly__</i>	(Optional)
<i>TABLE_client</i>	(Optional) all clients
<i>name</i>	(Optional)
<i>id</i>	(Optional)
<i>state</i>	(Optional)
<i>createtime</i>	(Optional)
<i>modifytime</i>	(Optional)
<i>pid</i>	(Optional)
<i>epid</i>	(Optional)
<i>notifysid</i>	(Optional)
<i>mtsqh</i>	(Optional)
<i>mtssap</i>	(Optional)
<i>TABLE_msgs_rcvd</i>	(Optional)
<i>Register</i>	(Optional)
<i>State_Change</i>	(Optional)
<i>SID_add</i>	(Optional)
<i>SID_del</i>	(Optional)
<i>TABLE_msgs_sent</i>	(Optional)
<i>Locator_add</i>	(Optional)
<i>Locator_del</i>	(Optional)

<i>Loc_Down_Pending</i>	(Optional)
<i>Locator_Down</i>	(Optional)
<i>Sid_add_ack</i>	(Optional)
<i>Sid_del_ack</i>	(Optional)
<i>Sid_add</i>	(Optional)
<i>Sid_del</i>	(Optional)
<i>Encap_add</i>	(Optional)
<i>Encap_del</i>	(Optional)

**Command Mode**

- /exec

# show srv6 locator

```
show srv6 locator [ detail ] [ __readonly__ [ TABLE_locator <locname> <locid> <locprefix> <locstate> [
sid-count ] [ loc-created ] [ loc-modified ] [ mod-reason ] ] ]
```

## Syntax Description

show	Show running system information
srv6	srv6
locator	Locator DB
detail	(Optional) Locator details
__readonly__	(Optional)
TABLE_locator	(Optional) all locators
<i>locname</i>	(Optional)
<i>locprefix</i>	(Optional)
<i>locid</i>	(Optional)
<i>locstate</i>	(Optional)
<i>sid-count</i>	(Optional)
<i>loc-created</i>	(Optional)
<i>loc-modified</i>	(Optional)
<i>mod-reason</i>	(Optional)

## Command Mode

- /exec

## show srv6 manager

```
show srv6 manager [ __readonly__ { parameters <enabled> [ src_address <configured> ] } { summary
<nblocator> <nblocup> <nbsid> } { capabilities { { end-functions [ TABLE_endfunct <efunct-name> ] } {
transit-functions [ TABLE_tfunct <tfunct-name> ] } { security [ TABLE_secrule <sec-rule> ] } [ max-sid
<max-sid-count> ] [ sid-holdtime-sec <sid-hold> ] } } ]
```

### Syntax Description

show	Show running system information
srv6	srv6
manager	Manager
__readonly__	(Optional)
parameters	(Optional) SRv6 parameters
<i>enabled</i>	(Optional) Operational status of SRv6
src_address	(Optional) Source address
summary	(Optional) SRv6 summary
<i>nblocator</i>	(Optional) Number of locators
<i>nblocup</i>	(Optional) Number of locator in UP state
<i>nbsid</i>	(Optional) Number of SID
capabilities	(Optional) Platform capabilities
end-functions	(Optional) End functions
TABLE_endfunct	(Optional) All end functions
<i>efunct-name</i>	(Optional)
transit-functions	(Optional) Transit functions
TABLE_tfunct	(Optional) All transit function
<i>tfunct-name</i>	(Optional)
security	(Optional) Security
TABLE_secrule	(Optional) All security rules
<i>sec-rule</i>	(Optional)
max-sid	(Optional) Maximum number of sid
<i>max-sid-count</i>	(Optional)

sid-holdtime-sec	(Optional) Time we wait before reusing a function id
<i>sid-hold</i>	(Optional)

**Command Mode**

- /exec



## show srv6 sid

```
show srv6 sid [ <ipv6-addr> ] [ detail ] [ __readonly__ [ TABLE_loc <sidlocname> [ { TABLE_sid <sidaddr>
<sidfunc> <sidctx> <sidowner> <sidstate> <sidrewrite> [ det-ctx ] [ loc-name ] [ alloc-type ] [ sidmgr-addsidrte
] [ created ] [ modified ] } ] ] ]
```

### Syntax Description

show	Show running system information
srv6	srv6
sid	SID DB
detail	(Optional) Print SID details
__readonly__	(Optional)
TABLE_loc	(Optional) Locator
<i>sidlocname</i>	(Optional)
TABLE_sid	(Optional) SID
<i>sidfunc</i>	(Optional)
<i>sidctx</i>	(Optional)
<i>sidowner</i>	(Optional)
<i>sidstate</i>	(Optional)
<i>sidrewrite</i>	(Optional)
<i>det-ctx</i>	(Optional)
<i>loc-name</i>	(Optional)
<i>alloc-type</i>	(Optional)
<i>sidmgr-addsidrte</i>	(Optional)
<i>created</i>	(Optional)
<i>modified</i>	(Optional)

### Command Mode

- /exec

## show srv6 sid counters

```
show srv6 sid <ipv6-addr> counters [ __readonly__ <counter-sid> <counter-sid-type> <counter-rx-packets>
<counter-rx-bytes> <counter-tx-packets> <counter-tx-bytes> ]
```

### Syntax Description

show	Show running system information
srv6	srv6
sid	SID DB
counters	Print SID counters
<i>__readonly__</i>	(Optional)
<i>counter-sid</i>	(Optional)
<i>counter-sid-type</i>	(Optional)
<i>counter-rx-packets</i>	(Optional)
<i>counter-rx-bytes</i>	(Optional)
<i>counter-tx-packets</i>	(Optional)
<i>counter-tx-bytes</i>	(Optional)

### Command Mode

- /exec

# show ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | ecdsa [ [ md5 ] } ] [ __readonly__ { TABLE_sessions <key_type>
<key_time> <key_data> <key_bitcount> <key_fingerprint> } ]
```

## Syntax Description

show	Show running system information
ssh	Show SSH information
key	Show ssh keys
dsa	(Optional) Show dsa ssh keys
rsa	(Optional) Show rsa ssh keys
ecdsa	(Optional) Show ecdsa ssh keys
md5	(Optional) Show Fingerprint in MD5 Format
__readonly__	(Optional)
TABLE_sessions	(Optional) ssh key
<i>key_type</i>	(Optional) keys type
<i>key_time</i>	(Optional) timestamp
<i>key_data</i>	(Optional) ssh key data
<i>key_bitcount</i>	(Optional) bitcount
<i>key_fingerprint</i>	(Optional) fingerprint

## Command Mode

- /exec

# show ssh server

```
show ssh server [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

show	Show running system information
ssh	Show SSH information
server	Show whether ssh server is enabled or not
<i>__readonly__</i>	(Optional)
<i>operation_status</i>	(Optional) run-time information about ssh
<i>o_status</i>	(Optional) operational status of ssh server

## Command Mode

- /exec

# show ssx details

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

## Syntax Description

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

## Command Mode

- /exec

# show ssx exporter

```
show ssx exporter { all | <exportername> } [ __readonly__ [ TABLE_ssx_exporters <exporter-name> {
<src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> | <dest-intf> } ] ]
```

## Syntax Description

ssx	Display SSX information
exporter	Show exporter details
all	All sessions
<i>exportername</i>	SSX Exporter to display
__readonly__	(Optional) Read Only
TABLE_ssx_exporters	(Optional) SSX Exporters table

## Command Mode

- /exec

# show ssx monitor

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

## Syntax Description

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

## Command Mode

- /exec

# show ssx record

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

## Syntax Description

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

## Command Mode

- /exec



# show startup-config

show startup-config

## Syntax Description

show	Show running system information
startup-config	Current startup configuration

## Command Mode

- /exec

# show startup-config aaa

show startup-config aaa

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
aaa	Display aaa configuration

## Command Mode

- /exec

# show startup-config acllog

show startup-config acllog [ all ]

## Syntax Description

show	Show running system information
startup-config	Displaying the startup configuration
acllog	show startup config for acllog
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config aclmgr

show startup-config aclmgr [ all ]

## Syntax Description

show	Show running system information
startup-config	Display the startup configuration
aclmgr	show startup config for aclmgr
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config adjmgr

show startup-config adjmgr [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
adjmgr	Display adjmgr information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config arp

show startup-config arp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
arp	Display arp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config assoc

show startup-config assoc [ all ]

## Syntax Description

show	Show running system information
startup-config	Current saved configuration
assoc	Original ID to Translated ID Association
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config backup

show startup-config { backup | flexlink } [ all ]

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
backup	Show startup config for Switchport Backup
flexlink	Show startup config for Switchport Backup
all	(Optional) Show config with defaults

## Command Mode

- /exec



# show startup-config bfd

show startup-config bfd [ all ]

## Syntax Description

show	Show system information
startup-config	Display the startup configuration
bfd	show startup config for bfd
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config bgp

show startup-config bgp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
bgp	Display bgp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config bloggerd

show startup-config bloggerd [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
bloggerd	Display bloggerd configuration
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config callhome

show startup-config callhome

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
callhome	Display callhome configuration

## Command Mode

- /exec

# show startup-config cdp

show startup-config cdp [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
cdp	Display cdp configuration
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config cert-enroll

show startup-config cert-enroll

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
cert-enroll	Display certificates configuration

## Command Mode

- /exec

# show startup-config cfs

show startup-config cfs [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
cfs	Display cfs configurations
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config config-profile

show startup-config config-profile [ <all\_conf\_profile\_name> ]

## Syntax Description

show	Show startup-config
startup-config	Current startup configuration
config-profile	Display port-profile configuration
<i>all_conf_profile_name</i>	(Optional) Enter the name of the profile

## Command Mode

- /exec



# show startup-config copp

show startup-config copp [ all ]

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
copp	Control-Plane Policing
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config dhcp

show startup-config dhcp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
dhcp	Display dhcp snoop configurations
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config diagnostic

show startup-config diagnostic [ all ]

## Syntax Description

show	Show running system information
startup-config	Contents of startup configuration
diagnostic	Diagnostic configuration
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show startup-config dot1x

show startup-config dot1x

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
dot1x	Display dot1x configuration

## Command Mode

- /exec

# show startup-config ecp

show startup-config ecp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
ecp	ECP (Edge Control Protocol)
all	(Optional) Display startup config with defaults

## Command Mode

- /exec

# show startup-config eem

show startup-config eem

## Syntax Description

show	Show running system information
startup-config	Show the system startup configuration
eem	Show the event manager startup configuration

## Command Mode

- /exec

# show startup-config eigrp

show startup-config eigrp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
eigrp	Display eigrp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config eltm

show startup-config eltm

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
eltm	Display eltm configurations

## Command Mode

- /exec



# show startup-config epbr

show startup-config epbr

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
epbr	epbr

## Command Mode

- /exec

# show startup-config evb

show startup-config evb [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
evb	EVB (Edge Virtual Bridge)
all	(Optional) Display startup config with defaults

## Command Mode

- /exec

# show startup-config exclude

show startup-config exclude <feature-list> +

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
exclude	Exclude startup configuration of specified features
<i>feature-list</i>	Exclude features

## Command Mode

- /exec

# show startup-config expand-port-profile

show startup-config expand-port-profile

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
expand-port-profile	Expand port profile

## Command Mode

- /exec

# show startup-config fabric forwarding

show startup-config fabric forwarding [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config fabric multicast

show startup-config fabric multicast [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabric	Fabric
multicast	Multicast information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config fabricpath

show startup-config fabricpath

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
fabricpath	fabricpath information

## Command Mode

- /exec

# show startup-config fabricpath domain default

show startup-config fabricpath domain default [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabricpath	fabricpath information
domain	Enter fabricpath IS-IS domain configuration mode
default	default fabricpath domain
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show startup-config fabricpath switch-id

show startup-config fabricpath switch-id

## Syntax Description

startup-config	Current startup configuration
fabricpath	fabricpath information
switch-id	fabricpath switch-id configuration

## Command Mode

- /exec

# show startup-config fabricpath topology

show startup-config fabricpath topology [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
fabricpath	fabricpath Module Information
topology	Fabricpath topology Information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config fcoe\_mgr

show startup-config fcoe\_mgr

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
fcoe_mgr	Display fcoe_mgr configuration

## Command Mode

- /exec

# show startup-config fsync\_mgr

show startup-config fsync\_mgr [ all ]

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
fsync_mgr	Frequency Synchronization Manager
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config glbp

show startup-config glbp

## Syntax Description

show	Show system information
startup-config	System startup configuration
glbp	GLBP startup configuration

## Command Mode

- /exec

# show startup-config hardware-telemetry

show startup-config hardware-telemetry [ all ]

## Syntax Description

show	Show system information
startup-config	Current startup configuration
hardware-telemetry	show startup config for hardware-telemetry
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config hsrp

show startup-config hsrp

## Syntax Description

show	Show system information
startup-config	System startup configuration
hsrp	HSRP startup configuration

## Command Mode

- /exec

# show startup-config icam

show startup-config icam

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
icam	icam services

## Command Mode

- /exec



# show startup-config icmpv6

show startup-config icmpv6 [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
icmpv6	Display icmpv6 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config igmp

show startup-config igmp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
igmp	Display igmp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config imp

show startup-config imp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
imp	Display imp information
all	(Optional) Display start config with defaults clis

## Command Mode

- /exec

# show startup-config interface

show startup-config interface <if0> [ membership ] [ expand-port-profile ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
membership	(Optional) Show membership information
expand-port-profile	(Optional) Expand port profile

## Command Mode

- /exec

# show startup-config interface

```
show startup-config interface [ <if0> ] [ expand-port-profile ]
```

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
interface	Interface configuration
<i>if0</i>	(Optional) interface type and number in module/slot format
expand-port-profile	(Optional) Expand port profile

## Command Mode

- /exec

# show startup-config ip

show startup-config ip [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
ip	Display ip information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config ipqos

show startup-config ipqos [ all ]

## Syntax Description

show	Show running system information
startup-config	Display the startup configuration
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config ipv6

show startup-config ipv6 [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
ipv6	Display ipv6 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show startup-config isis

show startup-config isis [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
isis	Display isis information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config l3vm

show startup-config l3vm [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
l3vm	Display l3vm information
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show startup-config ldap

show startup-config ldap

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
ldap	Display ldap configuration

## Command Mode

- /exec

# show startup-config license

show startup-config license [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
license	Display licensing configuration
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config lisp

show startup-config lisp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
lisp	Display lisp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config lldp

show startup-config lldp [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
lldp	Display lldp configuration
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config log

```
show startup-config { log | mdp-log } [ bootstrap ]
```

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
mdp-log	Displays execution log of last used mdp ascii startup configuration
log	Displays execution log of last used ascii startup configuration
bootstrap	(Optional) Bootstrap config replay execution log

## Command Mode

- /exec

# show startup-config macsec

show startup-config macsec

## Syntax Description

show	Show running system information
startup-config	show startup system information
macsec	Show CTS information

## Command Mode

- /exec



# show startup-config mfwd

```
show startup-config { mfwd | mcastfwd } [ all ]
```

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
mcastfwd	Display MCASTFWD information
mfwd	Display MFWD information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config mfwdv6

show startup-config { mfwdv6 | mcastfwdv6 } [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
mcastfwdv6	Display IPV6 MCASTFWD information
mfwdv6	Display IPV6 MFWD information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config mld

show startup-config mld [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
mld	Display MLD information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config mmode

show startup-config mmode [ all ]

## Syntax Description

show	Show running system information
startup-config	Show startup configuration
mmode	Display maintenance mode startup configuration
all	(Optional) Show startup config with defaults

## Command Mode

- /exec

# show startup-config monitor

show startup-config monitor

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
monitor	Configure Ethernet SPAN sessions

## Command Mode

- /exec

# show startup-config mpls static

show startup-config mpls static [ all ]

## Syntax Description

show	Show running system information
startup-config	Current operating configuration
mpls	Display MPLS status and configuration
static	Static Label Bindings
all	(Optional) Display running-config with defaults

## Command Mode

- /exec

# show startup-config mpls strip

show startup-config mpls strip [ all ]

## Syntax Description

show	Show running system information
mpls	MPLS information
strip	Stripping of MPLS headers
startup-config	System startup configuration
all	(Optional) Show startup configuration for STRIPCL with defaults

## Command Mode

- /exec

# show startup-config msdp

show startup-config msdp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
msdp	Display msdp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show startup-config nat

show startup-config nat [ all ]

## Syntax Description

show	Show system information
startup-config	Display the startup configuration
nat	show startup config for nat
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config nbm

show startup-config nbm

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
nbm	Non Blocking Multicast

## Command Mode

- /exec

# show startup-config ngoam

show startup-config ngoam

## Syntax Description

show	Show running system information
startup-config	Show startup system information
ngoam	ngoam configuration

## Command Mode

- /exec

# show startup-config ntp

show startup-config ntp [ all ]

## Syntax Description

show	Show information
startup-config	Show startup system configuration
ntp	Show NTP information
all	(Optional) Show all NTP startup configuration

## Command Mode

- /exec

# show startup-config nv overlay

show startup-config nv overlay [ all ]

## Syntax Description

show	Show system information
startup-config	System startup configuration
nv	NVE startup configuration
overlay	NVE startup configuration
all	(Optional) Show NVE config with defaults

## Command Mode

- /exec

# show startup-config nxsdk

show startup-config nxsdk [ all ]

## Syntax Description

show	Show running system information
startup-config	Display the startup configuration
nxsdk	NXOS SDK
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show startup-config ofm

show startup-config ofm [ all ]

## Syntax Description

show	Show system information
startup-config	System startup configuration
ofm	Overlay Flow/Policy Manager startup configuration
all	(Optional) Show config with defaults

## Command Mode

- /exec

# show startup-config openflow

show startup-config openflow [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
openflow	Show startup config for OpenFlow
all	(Optional) Show startup config with defaults

## Command Mode

- /exec



# show startup-config ospf

show startup-config ospf [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
ospf	Display ospf information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config ospfv3

show startup-config ospfv3 [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
ospfv3	Display ospfv3 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config otv-isis

show startup-config otv-isis [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
otv-isis	Display otv-isis information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config param-list

show startup-config param-list [ <plistname> ]

## Syntax Description

show	Show startup-cfg
startup-config	show startup configuration
param-list	Display param-list configuration
<i>plistname</i>	(Optional) Enter the name of the param list

## Command Mode

- /exec

# show startup-config pim

show startup-config pim [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
pim	Display pim information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config pim6

show startup-config pim6 [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
pim6	Display pim6 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config poe

show startup-config poe [ all ]

## Syntax Description

show	Show running system information
startup-config	Current saved configuration
poe	Power over Ethernet
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config port-profile

show startup-config port-profile [ <all\_profile\_name> ]

## Syntax Description

show	Show startup-config
startup-config	Current startup configuration
port-profile	Display port-profile configuration
<i>all_profile_name</i>	(Optional) Enter the name of the profile

## Command Mode

- /exec



# show startup-config port-security

show startup-config port-security [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
port-security	Display port-security configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config ptp

show startup-config ptp [ all ]

## Syntax Description

show	show system information
startup-config	show startup system information
ptp	Show startup configuration for ptp
all	(Optional) Show startup configuration for PTP with defaults

## Command Mode

- /exec

# show startup-config radius

show startup-config radius

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
radius	Display radius configuration

## Command Mode

- /exec

# show startup-config rip

show startup-config rip [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
rip	Display rip information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config routing ip multicast

```
show startup-config routing { ip | ipv4 } multicast [ all ]
```

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
routing	Display routing information
ip	Display IP information
ipv4	Display IP information
multicast	Display multicast information
all	(Optional) Display startup config with defaults clis

## Command Mode

- /exec

# show startup-config routing ipv6 multicast

show startup-config routing ipv6 multicast [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
routing	Display routing information
ipv6	Display IPv6 information
multicast	Display multicast information
all	(Optional) Display startup config with defaults clis

## Command Mode

- /exec

# show startup-config rpm

show startup-config rpm [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
rpm	Display Route Policy Manager (RPM) information
all	(Optional) Display startup config with defaults

## Command Mode

- /exec

# show startup-config scheduler

show startup-config scheduler [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show system startup configuration information
scheduler	Show scheduler config or data
all	(Optional) show startup config with defaults

## Command Mode

- /exec



# show startup-config security

show startup-config security

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
security	Display security configuration

## Command Mode

- /exec

# show startup-config segment-routing

show startup-config segment-routing [ all ]

## Syntax Description

show	Show running system information
startup-config	Show startup configuration
segment-routing	Display segment-routing startup configuration
all	(Optional) Show startup config with defaults

## Command Mode

- /exec

# show startup-config services

show startup-config services

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
services	services

## Command Mode

- /exec

# show startup-config sflow

show startup-config { sflow } [ all ]

## Syntax Description

show	Show system information
startup-config	Current startup configuration
sflow	show startup config for sflow
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config sla responder

show startup-config sla responder

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
sla	Service Level Agreement (SLA)
responder	Show information about sla-responder

## Command Mode

- /exec

# show startup-config sla sender

show startup-config sla sender

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
sla	Service Level Agreement (SLA)
sender	Show information about sla-sender

## Command Mode

- /exec

# show startup-config sla twamp-server

show startup-config sla twamp-server

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
sla	Service Level Agreement (SLA)
twamp-server	Show information about twamp-server

## Command Mode

- /exec

# show startup-config snmp

show startup-config snmp [ all ]

## Syntax Description

show	show startup-cfg
startup-config	show startup system information
snmp	Display snmp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show startup-config srte

show startup-config srte

## Syntax Description

show	Show running system information
startup-config	Current operating configuration
srte	SRTE

## Command Mode

- /exec

# show startup-config switch

show startup-config { switch-profile | include-switch-profile }

## Syntax Description

show	Show running system information
startup-config	System startup configuration
switch-profile	Show switch-profile information
include-switch-profile	Show startup and switch-profile configuration

## Command Mode

- /exec

# show startup-config sync

show startup-config sync [ all ]

## Syntax Description

startup-config	Current startup configuration
sync	show startup config for sync
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config tacacs

show startup-config tacacs +

## Syntax Description

show	show startup-cfg
startup-config	show startup system information

## Command Mode

- /exec

# show startup-config telemetry

show startup-config telemetry [ all ]

## Syntax Description

show	show startup system configuration
startup-config	show startup system information
telemetry	Display telemetry configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config track

show startup-config track

## Syntax Description

show	Show running system information
startup-config	Show the system startup configuration
track	Show the track startup configuration

## Command Mode

- /exec

# show startup-config tunnel-encryption

show startup-config tunnel-encryption

## Syntax Description

show	Show running system information
startup-config	show startup system information
tunnel-encryption	Show information about Tunnel Encryption Manager

## Command Mode

- /exec

# show startup-config udd

show startup-config udd

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
udd	Show udd configuration

## Command Mode

- /exec



# show startup-config vdc-all

show startup-config vdc-all

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
vdc-all	Display config from all VDC

## Command Mode

- /exec

# show startup-config vdc

show startup-config vdc [ all ]

## Syntax Description

show	Show running system information
startup-config	Current saved configuration
vdc	Show Virtual Device Contexts
all	(Optional) show startup config with defaults

## Command Mode

- /exec

# show startup-config virtual-service

show startup-config virtual-service

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
virtual-service	Show startup config for virtualization services

## Command Mode

- /exec

# show startup-config vlan

show startup-config vlan <vlan-id>

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
vlan	Vlan commands
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

## Command Mode

- /exec

# show startup-config vlan

show startup-config vlan

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
vlan	Vlan commands

## Command Mode

- /exec

# show startup-config vmtracker

show startup-config vmtracker [ all ]

## Syntax Description

show	Show system information
startup-config	System startup configuration
vmtracker	Show VMTracker configuration
all	(Optional) Show VMTracker config with defaults

## Command Mode

- /exec

# show startup-config vpc

show startup-config vpc [ all ]

## Syntax Description

startup-config	Current startup configuration
vpc	show startup config for vPC
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show startup-config vrf

```
show startup-config vrf <vrf-cfg-name> [ all ]
```

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
vrf	Display VRF information
<i>vrf-cfg-name</i>	Configurable VRF name
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show startup-config vrf default

show startup-config vrf default [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
vrf	Display VRF information
default	Known VRF name
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show startup-config vrrpv3

show startup-config vrrpv3 [ all ]

## Syntax Description

show	Show system information
startup-config	System startup configuration
vrrpv3	VRRPv3 startup configuration
all	(Optional) show startup config of VRRPv3 with defaults

## Command Mode

- /exec

# show startup-config vshd

show startup-config vshd

## Syntax Description

show	Show startup system information
startup-config	Current startup configuration
vshd	Show startup config for vshd

## Command Mode

- /exec

# show startup-config vtp

show startup-config vtp [ all ]

## Syntax Description

show	Show running system information
startup-config	System startup-config commands
vtp	Show startup configuration for VTP
all	(Optional) Show startup configuration for VTP with defaults

## Command Mode

- /exec

# show startup-config wwnm

show startup-config wwnm

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
wwnm	Display WWN Manager startup configuration

## Command Mode

- /exec

# show startup-config zone

show startup-config zone

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
zone	Display zone server startup configuration

## Command Mode

- /exec

## show startup-config zone vsan

show startup-config zone vsan <vsan-id>

### Syntax Description

show	Show running system information
startup-config	Current startup configuration
zone	Display zone server startup configuration per vsan
vsan	Vsan commands
<i>vsan-id</i>	Vsan id

### Command Mode

- /exec

# show summary

```
show { ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 [ { unicast | multicast } ] ] } summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
summary	Display summarized information of BGP state
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	Display BGP information for all address families

## Command Mode

- /exec



# show switch-profile

show switch-profile [ *\_\_readonly\_\_* <profile\_name> <cfg\_rev> ]

## Syntax Description

show	Show running system information
switch-profile	Show switch-profiles
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
<i>cfg_rev</i>	(Optional)

## Command Mode

- /exec

# show switch-profile

```
show switch-profile [ <profile-name> ] { session-history | status commit } [ __readonly__ <prof-name>
TABLE_session <session_index> <start_usec> <start_time> <end_usec> <end_time> <revision_number>
<session_type> <session_subtype> <peer_triggered> [ <profile_status> ] [ <local_status> ] [ <local_error>
] [ <peer_address> ] [ <peer_sync_status> ] [ <merge_flags> ] [ <remote_status> ] [ <remote_error> ] ]
```

## Syntax Description

show	Show running system information
switch-profile	Show switch-profile
session-history	Switch-profile session-history
<i>profile-name</i>	(Optional) switch-profile name
status	Switch-profile sync status
commit	Switch-profile last commit status
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
TABLE_session	(Optional)
<i>session_index</i>	(Optional)
<i>start_usec</i>	(Optional)
<i>start_time</i>	(Optional)
<i>end_usec</i>	(Optional)
<i>end_time</i>	(Optional)
<i>revision_number</i>	(Optional)
<i>session_type</i>	(Optional)
<i>session_subtype</i>	(Optional)
<i>peer_triggered</i>	(Optional)
<i>profile_status</i>	(Optional)
<i>local_status</i>	(Optional)
<i>local_error</i>	(Optional)
<i>peer_address</i>	(Optional)
<i>peer_sync_status</i>	(Optional)

<i>merge_flags</i>	(Optional)
<i>remote_status</i>	(Optional)
<i>remote_error</i>	(Optional)

**Command Mode**

- /exec

# show switch-profile buffer

```
show switch-profile [ <profile-name> ] buffer [ __readonly__ <prof-name> [ TABLE_commands <seq_no>
[ <cmd> ] + ] ]
```

## Syntax Description

show	Show running system information
switch-profile	Show switch-profile
buffer	buffered commands
<i>profile-name</i>	(Optional) switch-profile name
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
TABLE_commands	(Optional)
<i>seq_no</i>	(Optional)
<i>cmd</i>	(Optional)

## Command Mode

- /exec

## show switch-profile peer

```
show switch-profile [ <profile-name> ] peer [ <dest-ip> ] [ details ] [ __readonly__ <prof-name> [ <rev> ] [ <peer_address> ] [ <peer_sync_status> ] [ <merge_flags> ] [ <remote_status> ] [ <remote_error> ] [ <cmd> ] + ]
```

### Syntax Description

show	Show running system information
switch-profile	Show switch-profile
<i>profile-name</i>	(Optional) switch-profile name
peer	peer info
<i>dest-ip</i>	(Optional) IPv4 address (A.B.C.D) of destination
details	(Optional) information in detail
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
<i>rev</i>	(Optional)
<i>peer_address</i>	(Optional)
<i>peer_sync_status</i>	(Optional)
<i>merge_flags</i>	(Optional)
<i>remote_status</i>	(Optional)
<i>remote_error</i>	(Optional)
<i>cmd</i>	(Optional)

### Command Mode

- /exec

# show switch-profile status

```
show switch-profile [ <profile-name> ] status [ __readonly__ <prof-name> <start_usec> <start_time>
<end_usec> <end_time> <revision_number> <session_type> [ <session_subtype> ] <peer_triggered>
<profile_status> <local_status> <local_error> [ <peer_address> ] [ <peer_sync_status> ] [ <merge_flags> ]
[ <remote_status> ] [ <remote_error> ] ]
```

## Syntax Description

show	Show running system information
switch-profile	Show switch-profile
status	Switch-profile sync status
<i>profile-name</i>	(Optional) switch-profile name
<i>__readonly__</i>	(Optional)
<i>prof-name</i>	(Optional)
<i>start_usec</i>	(Optional)
<i>start_time</i>	(Optional)
<i>end_usec</i>	(Optional)
<i>end_time</i>	(Optional)
<i>revision_number</i>	(Optional)
<i>session_type</i>	(Optional)
<i>session_subtype</i>	(Optional)
<i>peer_triggered</i>	(Optional)
<i>profile_status</i>	(Optional)
<i>local_status</i>	(Optional)
<i>local_error</i>	(Optional)
<i>peer_address</i>	(Optional)
<i>peer_sync_status</i>	(Optional)
<i>merge_flags</i>	(Optional)
<i>remote_status</i>	(Optional)
<i>remote_error</i>	(Optional)

## Command Mode

- /exec

# show switching-mode

```
show switching-mode [ __readonly__ { <switching-mode> } { TABLE_swtpmoduinfo <moduleno> <opmode> } ]
```

## Syntax Description

show	Show running system information
switching-mode	Show the operating switching mode
__readonly__	(Optional)
<i>switching-mode</i>	(Optional) switching mode description
TABLE_swtpmoduinfo	(Optional) the xml switching module information
<i>moduleno</i>	(Optional) Module Number
<i>opmode</i>	(Optional) Operation Mode

## Command Mode

- /exec



# show switching-mode fabric-speed

```
show switching-mode fabric-speed [ __readonly__ TABLE_switching_mode_fabric_speed <fabric-speed-desc> ]
```

## Syntax Description

show	Show running system information
switching-mode	Show the operating switching mode
fabric-speed	Show the fabric speed
__readonly__	(Optional)
TABLE_switching_mode_fabric_speed	(Optional) the xml switching_mode_fabric_speed configuration
<i>fabric-speed-desc</i>	(Optional) fabric speed description

## Command Mode

- /exec

# show system acl

```
show system acl [ __readonly__ TABLE_system_acl <protocol> [ TABLE_type <type> <acl_name> <inout> ] ]
```

## Syntax Description

show	Show running system information
system	System management commands
acl	ACL parameters
__readonly__	(Optional)
TABLE_system_acl	(Optional)
<i>protocol</i>	(Optional) protocol
TABLE_type	(Optional)
<i>type</i>	(Optional) type
<i>acl_name</i>	(Optional)
<i>inout</i>	(Optional) Traffic direction

## Command Mode

- /exec

# show system auto-collect tech-support

show system auto-collect tech-support [ \_\_readonly\_\_ <result> ]

## Syntax Description

show	Show running system information
system	System management commands
auto-collect	Auto collection of information
tech-support	Collect tech-support in case of service causing supervisor reset
__readonly__	(Optional)
<i>result</i>	(Optional) show tech collection enable status

## Command Mode

- /exec

# show system boottime

```
show system boottime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup>
<minutesup> <secondsup> } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
boottime	Show platform boot time of each module
__readonly__	(Optional)
TABLE_uptimeinf	(Optional) Show uptime info
<i>slot</i>	(Optional) Slot
<i>starttime</i>	(Optional) Start Time
<i>daysup</i>	(Optional) Days Up
<i>hoursup</i>	(Optional) Hours Up
<i>minutesup</i>	(Optional) Minutes Up
<i>secondsup</i>	(Optional) Seconds Up

## Command Mode

- /exec

## show system config reload-pending

```
show system config reload-pending [ __readonly__ { TABLE_reload_pending <cmds_list> } ]
```

### Syntax Description

show	Show running system information
system	System-related show commands
config	Config commands which require reload
reload-pending	Commands which require a reload
__readonly__	(Optional)
TABLE_reload_pending	(Optional) reload pending commands list
cmds_list	(Optional) cmds_list

### Command Mode

- /exec

# show system cores

show system cores [ \_\_readonly\_\_ { <content> } ]

## Syntax Description

show	Show running system information
system	System-related show commands
cores	Displays core transfer option
__readonly__	(Optional)
<i>content</i>	(Optional) Core transfer option

## Command Mode

- /exec

# show system default switchport

```
show system default switchport [ __readonly__ <sys_def_port_state> <sys_def_trunk_mode>
<sys_def_link_fail_syslog_level> <sys_def_tx_credit_queue_type> ]
```

## Syntax Description

show	Show running system information
<i>__readonly__</i>	(Optional) read only
<i>sys_def_port_state</i>	(Optional) System default port state
<i>sys_def_trunk_mode</i>	(Optional) System default trunk mode
<i>sys_def_link_fail_syslog_level</i>	(Optional) System default link failure syslog logging level
<i>sys_def_tx_credit_queue_type</i>	(Optional) System default tx credit queue type
system	System-related show commands
default	Show system default values
switchport	Show default values for switchport attributes

## Command Mode

- /exec

# show system default zone

show system default zone

## Syntax Description

show	Show running system information
system	System-related show commands
default	Show system default values
zone	Show default values for zone

## Command Mode

- /exec



# show system error-id

```
show system error-id { list | <i0> } [ __readonly__ <errorid> <facility> <desc> ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
error-id	Show description about errors
list	Show description about all error IDs
<i>i0</i>	Show description about specific error
<i>__readonly__</i>	(Optional)
<i>errorid</i>	(Optional)
<i>facility</i>	(Optional)
<i>desc</i>	(Optional)

## Command Mode

- /exec

# show system exception-info

```
show system exception-info [ __readonly__ { TABLE_exception { <second> <panic_data> <register_data>
<stack_pointer> <stack_depth> <stack_timestamp> <stacl_magic> <hdr_length> <stack_data> <pre_usec>
<pre_sec> <int_t> <reason> <service> <version> } } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
exception-info	Show last exception log information
<i>__readonly__</i>	(Optional)
TABLE_exception	(Optional)
<i>second</i>	(Optional) Time of exception
<i>panic_data</i>	(Optional) Panic information dump
<i>register_data</i>	(Optional) CPU register dump
<i>stack_pointer</i>	(Optional) Current Stack-pointer
<i>stack_depth</i>	(Optional) Current Stack-depth
<i>stack_timestamp</i>	(Optional) Stack dump timestamp
<i>stacl_magic</i>	(Optional) Stack Magic
<i>hdr_length</i>	(Optional) Hdr length
<i>stack_data</i>	(Optional) Stack Dump
<i>pre_usec</i>	(Optional)
<i>pre_sec</i>	(Optional)
<i>int_t</i>	(Optional)
<i>reason</i>	(Optional) Reason
<i>service</i>	(Optional) Service
<i>version</i>	(Optional) Version

## Command Mode

- /exec

# show system fabric-mode

show system fabric-mode [ \_\_readonly\_\_ TABLE\_system\_fabric\_mode <system-fabric-mode-desc> ]

## Syntax Description

show	Show running system information
system	Show system information
fabric-mode	Show the fabric operation mode information
__readonly__	(Optional)
TABLE_system_fabric_mode	(Optional) the xml system_fabric_mode configuration
<i>system-fabric-mode-desc</i>	(Optional) system fabric mode description

## Command Mode

- /exec

# show system fast-reload stabilization-timer

```
show system fast-reload stabilization-timer [ __readonly__ { <timer_val> } ]
```

## Syntax Description

show	Show running system information
system	System management commands
fast-reload	fast-reload software
stabilization-timer	Network stabilization time in seconds before fast-reload can be executed after the previous reload
<i>__readonly__</i>	(Optional) Read Only
<i>timer_val</i>	(Optional) XML attribute for timer value

## Command Mode

- /exec

# show system image-verification

```
show system image-verification [ __readonly__ { [ TABLE_system_image_verification <Str1> ] } ]
```

## Syntax Description

show	Show running system information
system	Show system information
image-verification	image signature verification status
__readonly__	(Optional)
TABLE_system_image_verification	(Optional) table for image verification
<i>Str1</i>	(Optional) status of image verification

## Command Mode

- /exec

# show system inband cpu-mac log threshold

```
show system inband cpu-mac log threshold [ __readonly__ { <rx_threshold> } { <tx_threshold> } { <throttle> } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
inband	Show Inband related information
cpu-mac	Show CPU-MACs related information
log	Show log information
threshold	Show inband threshold
<i>__readonly__</i>	(Optional)
<i>rx_threshold</i>	(Optional) Registered RX PPS Threshold
<i>tx_threshold</i>	(Optional) Registered TX PPS Threshold
<i>throttle</i>	(Optional) Registered Throttle in seconds

## Command Mode

- /exec

## show system inband queuing statistics

```
show system inband queuing statistics [ __readonly__ { TABLE_sys_inband_queue_stats <inbandpktunmap>
<inbandpktbpduqueue> <inbandpktmapq0> <inbandpktmapq1> <klmpktmapbpdu> <klmpktmaparp>
<klmpktmapq0> <klmpktmapq1> <klmpktmapveobc> <queuename> [ TABLE_bpdu_stats { <pmrcvpkts>
<pmdroppkts> <pmcongested> <rcvbuf> <sndbuf> <pmnodrop> } ] [ TABLE_q_stats { <indexstat>
<ipmrcvpkts> <ipmdroppkts> <ipmcongested> <ircvbuf> <isndbuf> <ipmnodrop> } ] ] ]
```

### Syntax Description

show	Show running system information
system	System-related show commands
inband	Inband Commands
queuing	Inband Queuing commands
statistics	Inband statistics
<i>__readonly__</i>	(Optional)
TABLE_sys_inband_queue_stats	(Optional) System Inband Statistics
<i>inbandpktunmap</i>	(Optional) Inband packets unmapped
<i>inbandpktbpduqueue</i>	(Optional) Inband packets mapped to bpdu
<i>inbandpktmapq0</i>	(Optional) Inband packets mapped to q0
<i>inbandpktmapq1</i>	(Optional) Inband packets mapped to q1
<i>klmpktmapbpdu</i>	(Optional) In KLM packets mapped to bpdu
<i>klmpktmaparp</i>	(Optional) In KLM packets mapped to arp
<i>klmpktmapq0</i>	(Optional) In KLM packets mapped to q0
<i>klmpktmapq1</i>	(Optional) In KLM packets mapped to q1
<i>klmpktmapveobc</i>	(Optional) In KLM packets mapped to veobc
<i>queuename</i>	(Optional) Inband queue name
TABLE_bpdu_stats	(Optional) BPDU Statistics
<i>pmrcvpkts</i>	(Optional) BPDU Receive Packets
<i>pmdroppkts</i>	(Optional) BPDU Drop Packets
<i>pmcongested</i>	(Optional) BPDU Congested
<i>rcvbuf</i>	(Optional) BPDU Receive Buffer
<i>sndbuf</i>	(Optional) BPDU Send Buffer

<i>pmnoproduct</i>	(Optional) BPDU No drop
TABLE_q_stats	(Optional) Queue Statistics
<i>indexstat</i>	(Optional) Queue Index
<i>ipmrecvpkts</i>	(Optional) Queue receive packets
<i>ipmdroppkts</i>	(Optional) Queue drop packets
<i>ipmcongested</i>	(Optional) Queue Congested
<i>ircvbuf</i>	(Optional) Queue receive buffer
<i>isndbuf</i>	(Optional) Queue send buffer
<i>ipmnooproduct</i>	(Optional) Queue no drop

**Command Mode**

- /exec



# show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <pminbandalgo>
<pminbandweigh0> <pminbandweigh1> <pminbandweigh2> } ] ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
inband	Inband Commands
queuing	Inband Queuing commands
status	Selective Packet Discard Information
<i>__readonly__</i>	(Optional)
<i>TABLE_sys_inband_queue_status</i>	(Optional) System Inband Status
<i>pminbandalgo</i>	(Optional) Queuing Algorithm
<i>pminbandweigh0</i>	(Optional) BPDU Weight
<i>pminbandweigh1</i>	(Optional) Q0 Weight
<i>pminbandweigh2</i>	(Optional) Q1 Weight

## Command Mode

- /exec

# show system login

```
show system login [ __readonly__ [ [ <acc_list> ] [ <attempts> ] ] [ <within> <block_for> <time> ] [ <fail_count> ] [ <switch_mode> ] ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
login	Display Secure Login Configurations and State
<i>__readonly__</i>	(Optional)
<i>acc_list</i>	(Optional) Appiled ACL's
<i>attempts</i>	(Optional) Number of login failures
<i>within</i>	(Optional) Number of login failures within time
<i>block_for</i>	(Optional) Login disabled for time
<i>time</i>	(Optional) Time remaining to re-enable login
<i>fail_count</i>	(Optional) Login failure count
<i>switch_mode</i>	(Optional) Mode of operation

## Command Mode

- /exec

# show system login failures

```
show system login failures [ __readonly__ [ { TABLE_loginStats <username> <port> <remote_addr>
<app_name> <time> } ] ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
login	Secure Login
failures	Display Login failures in the current watch period
__readonly__	(Optional)
TABLE_loginStats	(Optional)
<i>username</i>	(Optional) User name
<i>port</i>	(Optional) Login port number
<i>remote_addr</i>	(Optional) Remote address
<i>app_name</i>	(Optional) Application name
<i>time</i>	(Optional) Login time

## Command Mode

- /exec

# show system memory-thresholds

```
show system memory-thresholds [ __readonly__ <critical_mem_threshold> <severe_mem_threshold>
<minor_mem_threshold> ]
```

## Syntax Description

show	Show running system information
<i>__readonly__</i>	(Optional)
<i>critical_mem_threshold</i>	(Optional) Critical System Memory Threshold
<i>severe_mem_threshold</i>	(Optional) Severe System Memory Threshold
<i>minor_mem_threshold</i>	(Optional) Minor System Memory Threshold
system	System management commands
memory-thresholds	Set memory thresholds on the card

## Command Mode

- /exec

# show system mode

```
show system mode [ __readonly__ <system_mode> [ <timer_state> ] ]
```

## Syntax Description

show	Show running system information
system	System configuration commands
mode	Show system mode
<i>__readonly__</i>	(Optional)
<i>system_mode</i>	(Optional) system mode
<i>timer_state</i>	(Optional) timer state

## Command Mode

- /exec

## show system nve infra-vlans

```
show system nve infra-vlans [ __readonly__ [ current_active_vlan <active_vlan_output> ] { available_infra_vlan
<available_vlan_output> } ]
```

### Syntax Description

show	Show running system information
system	System-related show commands
nve	Show NVE information
infra-vlans	Show NVE infra-vlans related information
<i>__readonly__</i>	(Optional)
<i>current_active_vlan</i>	(Optional) Current Active Infra Vlan
<i>active_vlan_output</i>	(Optional) Current active infra vlan output
<i>available_infra_vlan</i>	(Optional) Available Infra Vlan
<i>available_vlan_output</i>	(Optional) Available Infra Vlan output

### Command Mode

- /exec

# show system poap

```
show system poap [ __readonly__ { [ TABLE_show_system_poap <Str1> ] } ]
```

## Syntax Description

show	Show running system information
system	Show system information
poap	Show information related to POAP
__readonly__	(Optional)
TABLE_show_system_poap	(Optional) table for poap
<i>Str1</i>	(Optional) status of poap

## Command Mode

- /exec

# show system pss shrink status

```
show system pss shrink status [ details ] [ __readonly__ { [ <summary> ] [ TABLE_per_vdc <vdc_id> [
TABLE_detail_events <service> <vdc> <event> ] ] [ TABLE_events <service> <vdc> <event> ] } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
pss	Displays last pss shrink status
shrink	Displays last pss shrink status
status	Displays last pss shrink status
details	(Optional) Displays last pss shrink status details
__readonly__	(Optional)
<i>summary</i>	(Optional) PSS shrink summary
TABLE_per_vdc	(Optional)
<i>vdc_id</i>	(Optional) VDC id
TABLE_detail_events	(Optional) PSS shrink events
<i>service</i>	(Optional) Service name
<i>vdc</i>	(Optional) VDC number
<i>event</i>	(Optional) PSS evnets
TABLE_events	(Optional) PSS shrink events
<i>service</i>	(Optional) Service name
<i>vdc</i>	(Optional) VDC number
<i>event</i>	(Optional) PSS evnets

## Command Mode

- /exec



## show system redundancy ha status

```
show system redundancy ha status [ __readonly__ { [ TABLE_ha_status <vdc_id> <this_sup_internal_state>
<other_sup_internal_state> ] } ]
```

### Syntax Description

show	Show running system information
system	System-related show commands
redundancy	redundancy status
ha	vdc redundancy status
status	all vdc redundancy status
<i>__readonly__</i>	(Optional)
<i>TABLE_ha_status</i>	(Optional) HA status for all vdc
<i>vdc_id</i>	(Optional) vdc id
<i>this_sup_internal_state</i>	(Optional) This Supervisor State
<i>other_sup_internal_state</i>	(Optional) Remote Supervisor State

### Command Mode

- /exec

# show system redundancy status

```
show system redundancy status [ __readonly__ { <rdn_mode_admin> <rdn_mode_oper> <this_sup>
<this_sup_rdn_state> <this_sup_sup_state> <this_sup_internal_state> [ <other_sup> ] [ <other_sup_rdn_state>
] [ <other_sup_sup_state> ] [ <other_sup_internal_state> ] } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
redundancy	redundancy status
status	Current redundancy status
<i>__readonly__</i>	(Optional) readonly
<i>rdn_mode_admin</i>	(Optional) Redundancy Mode Admin
<i>rdn_mode_oper</i>	(Optional) Redundancy Mode Operational
<i>this_sup</i>	(Optional) This Supervisor
<i>this_sup_rdn_state</i>	(Optional) Redundancy State
<i>this_sup_sup_state</i>	(Optional) Supervisor State
<i>this_sup_internal_state</i>	(Optional) Supervisor State
<i>other_sup</i>	(Optional) Other Supervisor
<i>other_sup_sup_state</i>	(Optional) Supervisor State
<i>other_sup_rdn_state</i>	(Optional) Redundancy tate
<i>other_sup_internal_state</i>	(Optional) Supervisor State

## Command Mode

- /exec

# show system reset-reason

```
show system reset-reason [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time> <reason> <service>
<version> } } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
__readonly__	(Optional)
TABLE_reason	(Optional) Reset reason info
<i>slot</i>	(Optional) slot
TABLE_rr	(Optional) reset reason
<i>time</i>	(Optional) time
<i>reason</i>	(Optional) reset reason
<i>service</i>	(Optional) service name
<i>version</i>	(Optional) version

## Command Mode

- /exec

# show system reset-reason

```
show system reset-reason <s0> <santa-cruz-range> [ __readonly__ { TABLE_xbarreason <slot> { TABLE_rr
<time> <reason> <service> <version> } } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
<i>s0</i>	Show xbar module reset reason
<i>santa-cruz-range</i>	please enter the xbar module number
<i>__readonly__</i>	(Optional)
TABLE_xbarreason	(Optional) Reset reason info
<i>slot</i>	(Optional) slot
TABLE_rr	(Optional) reset reason
<i>time</i>	(Optional) time
<i>reason</i>	(Optional) reset reason
<i>service</i>	(Optional) service name
<i>version</i>	(Optional) version

## Command Mode

- /exec

## show system reset-reason module

```
show system reset-reason module <module> [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time>
<reason> <service> <version> } } ]
```

### Syntax Description

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
module	Show per module reset-reason code
<i>module</i>	please enter module number
<i>__readonly__</i>	(Optional)
TABLE_reason	(Optional) Reset reason info
<i>slot</i>	(Optional) slot
TABLE_rr	(Optional) reset reason
<i>time</i>	(Optional) time
<i>reason</i>	(Optional) reset reason
<i>service</i>	(Optional) service name
<i>version</i>	(Optional) version

### Command Mode

- /exec

## show system resources

```
show system resources [ __readonly__ { [ <load_avg_1min> ] [ <load_avg_5min> ] [ <load_avg_15min> ]
[ <processes_total> ] [ <processes_running> ] [ <cpu_state_user> ] [ <cpu_state_kernel> ] [ <cpu_state_idle>
] [ TABLE_cpu_usage <cpuid> <user> <kernel> <idle> ] [ <memory_usage_total> ] [ <memory_usage_used>
] [ <memory_usage_free> ] [ <vm_total> ] [ <vm_free> ] [ <mem_buffers> ] [ <mem_cached> ] [
<current_memory_status> ] } ]
```

### Syntax Description

<i>show</i>	Show running system information
<i>system</i>	System-related show commands
<i>resources</i>	Show system resources
<i>__readonly__</i>	(Optional)
<i>TABLE_cpu_usage</i>	(Optional) All Cpu Usage Information
<i>load_avg_1min</i>	(Optional) Load Average 1 Min
<i>load_avg_5min</i>	(Optional) Load Average 5 Min
<i>load_avg_15min</i>	(Optional) Load Average 15 Min
<i>processes_total</i>	(Optional) Total processes
<i>processes_running</i>	(Optional) Running Processes
<i>cpu_state_user</i>	(Optional) CPU State User
<i>cpu_state_kernel</i>	(Optional) CPU State Kernel
<i>cpu_state_idle</i>	(Optional) CPU State Idle
<i>cpuid</i>	(Optional) CPU id
<i>user</i>	(Optional) user time
<i>kernel</i>	(Optional) kernel time
<i>idle</i>	(Optional) idle time
<i>memory_usage_total</i>	(Optional) Memory Usage Total
<i>memory_usage_used</i>	(Optional) Memory Usage Used
<i>memory_usage_free</i>	(Optional) Memory Usage Free
<i>vm_total</i>	(Optional) Kernal VMemory Total
<i>vm_free</i>	(Optional) Kernal VMemory Free
<i>mem_buffers</i>	(Optional) Kernal Buffers

<i>mem_cached</i>	(Optional) Kernal Cached
<i>current_memory_status</i>	(Optional) Current Memory Status

**Command Mode**

- /exec

## show system resources all-modules

```
show system resources all-modules [ __readonly__ { [ <load_avg_1min> ] [ <load_avg_5min> ] [
<load_avg_15min> ] [ <processes_total> ] [ <processes_running> ] [ <cpu_state_user> ] [ <cpu_state_kernel>
] [ <cpu_state_idle> ] [ TABLE_cpu_usage <cpuid> <user> <kernel> <idle> ] [ <memory_usage_total> ] [
<memory_usage_used> ] [ <memory_usage_free> ] [ <current_memory_status> } ] ]
```

### Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
all-modules	Show system resources for all available modules
<i>__readonly__</i>	(Optional)
<i>TABLE_cpu_usage</i>	(Optional) All Cpu Usage Information
<i>load_avg_1min</i>	(Optional) Load Average 1 Min
<i>load_avg_5min</i>	(Optional) Load Average 5 Min
<i>load_avg_15min</i>	(Optional) Load Average 15 Min
<i>processes_total</i>	(Optional) Total processes
<i>processes_running</i>	(Optional) Running Processes
<i>cpu_state_user</i>	(Optional) CPU State User
<i>cpu_state_kernel</i>	(Optional) CPU State Kernel
<i>cpu_state_idle</i>	(Optional) CPU State Idle
<i>cpuid</i>	(Optional) CPU id
<i>user</i>	(Optional) user time
<i>kernel</i>	(Optional) kernel time
<i>idle</i>	(Optional) idle time
<i>memory_usage_total</i>	(Optional) Memory Usage Total
<i>memory_usage_used</i>	(Optional) Memory Usage Used
<i>memory_usage_free</i>	(Optional) Memory Usage Free
<i>current_memory_status</i>	(Optional) Current Memory Status

### Command Mode



- /exec

# show system routing mode

```
show system routing mode [ __readonly__ TABLE_system_routing_mode { [ <configured-sys-routing-mode>
] [ <applied-sys-routing-mode> ] [ <svi-hardware-flood-mode> ] [ <routing-perf-mode> ] [
<mrouting-perf-mode> ] } ]
```

## Syntax Description

show	Show running system information
system	Show system information
routing	Show routing related information
mode	Show mode related information
<i>__readonly__</i>	(Optional)
<i>TABLE_system_routing_mode</i>	(Optional) the xml system_routing_mode configuration
<i>configured-sys-routing-mode</i>	(Optional) Configured system routing mode description
<i>applied-sys-routing-mode</i>	(Optional) Applied system routing mode description
<i>svi-hardware-flood-mode</i>	(Optional) Configured SVI hardware flood mode description
<i>routing-perf-mode</i>	(Optional) Applied System Routing Performance Mode description
<i>mrouting-perf-mode</i>	(Optional) Applied System Mrouting Performance Mode

## Command Mode

- /exec

## show system security

```
show system security [ common-criteria ] [ __readonly__ { [ <common_criteria_o_status> ] } ]
```

### Syntax Description

show	Show running system information
system	System Management commands
security	Security Management commands
common-criteria	(Optional) Show if common-criteria mode is enabled or disabled
__readonly__	(Optional)
<i>common_criteria_o_status</i>	(Optional) operational status of common-criteria

### Command Mode

- /exec

# show system simulate fan-presence

show system simulate fan-presence

## Syntax Description

show	Show running system information
system	System management commands
simulate	Simulate Fan Presence
fan-presence	Simulate Fan Presence

## Command Mode

- /exec

# show system standby manual-boot

```
show system standby manual-boot [ __readonly__ { <content> } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
standby	Displays system standby manual boot option
manual-boot	Displays system standby manual boot option
__readonly__	(Optional)
<i>content</i>	(Optional) Displays system standby manual boot option

## Command Mode

- /exec

# show system switch-mode

show system switch-mode [ \_\_readonly\_\_ <op\_mode> ]

## Syntax Description

show	Show running system information
system	System-related show commands
switch-mode	Show current operational mode of the switch
__readonly__	(Optional)
<i>op_mode</i>	(Optional) Operational Mode

## Command Mode

- /exec

# show system uptime

```
show system uptime [ __readonly__ { <sys_st_time> <sys_up_days> <sys_up_hrs> <sys_up_mins>
<sys_up_secs> <kn_up_days> <kn_up_hrs> <kn_up_mins> <kn_up_secs> [ <as_up_days> ] [ <as_up_hrs>
] [ <as_up_mins> ] [ <as_up_secs> ] } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
uptime	Show how long the system has been up and running
<i>__readonly__</i>	(Optional) readonly
<i>sys_st_time</i>	(Optional) System Start Time
<i>sys_up_days</i>	(Optional) System Uptime Days
<i>sys_up_hrs</i>	(Optional) System Uptime Hours
<i>sys_up_mins</i>	(Optional) System Uptime Minutes
<i>sys_up_secs</i>	(Optional) System Uptime Seconds
<i>kn_up_days</i>	(Optional) Kernel Uptime Days
<i>kn_up_hrs</i>	(Optional) Kernel Uptime Hours
<i>kn_up_mins</i>	(Optional) Kernel Uptime Minutes
<i>kn_up_secs</i>	(Optional) Kernel Uptime Seconds
<i>as_up_days</i>	(Optional) Active Sup Uptime Days
<i>as_up_hrs</i>	(Optional) Active Sup Uptime Hours
<i>as_up_mins</i>	(Optional) Active Sup Uptime Minutes
<i>as_up_secs</i>	(Optional) Active Sup Uptime Seconds

## Command Mode

- /exec

# show system verify bios flash

```
show system verify bios { flash <i0> [ module <module> ] | protection <i1> [ module <module1> ] } [
__readonly__ { <return> <verify_result> <protection_status> } ]
```

## Syntax Description

show	Show running system information
system	System-related show commands
verify	Verify commands
bios	Verify bios
flash	verify bios flash or protection status
<i>i0</i>	Select primary or alternate flash
module	(Optional) Module number
<i>module</i>	(Optional) Enter module number
protection	verify bios flash or protection status
<i>i1</i>	Select primary or alternate flash
module	(Optional) Module number
<i>module1</i>	(Optional) Enter module number
<i>__readonly__</i>	(Optional)
<i>return</i>	(Optional)
<i>verify_result</i>	(Optional)
<i>protection_status</i>	(Optional)

## Command Mode

- /exec



# show system vlan reserved

```
show system vlan reserved [ __readonly__ { TABLE_vlan <current_reserved_vlan_start>
<current_reserved_vlan_end> [ <future_reserved_vlan_start> ] [ <future_reserved_vlan_end> ] } ]
```

## Syntax Description

show	Show running system information
system	system wide configuration
vlan	VLAN status
reserved	Show system VLAN allocation
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_vlan</i>	(Optional)
<i>current_reserved_vlan_start</i>	(Optional) System current running reserved vlan start
<i>current_reserved_vlan_end</i>	(Optional) System current running reserved vlan end
<i>future_reserved_vlan_start</i>	(Optional) System future running reserved vlan start
<i>future_reserved_vlan_end</i>	(Optional) System future running reserved vlan end

## Command Mode

- /exec

show system vlan reserved