



## S Show Commands

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# show sampler

```
show sampler [ name ] [ <samplername> ] [ __readonly__ <sampler> <desc> <use_count> <sample_M>
<sample_N> <sample_P> ]
```

## Syntax Description

show	Show running system information
sampler	Show Sampler Configuration
name	(Optional) Show a specific Sampler
<i>samplername</i>	(Optional) Specify a sampler
<u>__readonly__</u>	(Optional)
<i>sampler</i>	(Optional)
<i>desc</i>	(Optional)
<i>use_count</i>	(Optional)
<i>sample_M</i>	(Optional)
<i>sample_N</i>	(Optional)
<i>sample_P</i>	(Optional)

## Command Mode

- /exec

show scheduler config

# 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
<u>__readonly__</u>	(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

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
<i>s0</i>	(Optional) Specify the job name
__readonly__	(Optional)
TABLE_schedulerjobs	(Optional) schedulerjobs
<i>jobname</i>	(Optional) job name
<i>jobdata</i>	(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
__readonly__	(Optional)
TABLE_joblog	(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

```
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
<u>__readonly__</u>	(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 sflow

show sflow

## Syntax Description

show	Show running system information
sflow	Display sFlow global configuration

## Command Mode

- /exec

show sflow statistics

# show sflow statistics

show sflow statistics [ \_\_readonly\_\_ <total-packets> <total-samples> <processed-samples> <dropped-samples> <dropped-sflow-samples> <sent-datagrams> <dropped-datagrams> ]

## Syntax Description

show	Show running system information
sflow	Display sFlow global configuration
statistics	Display sFlow statistics
<u>__readonly__</u>	(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>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
<u>__readonly__</u>	(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

```
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_subrow <subrowkey> <subrowval> [ <substate1> <substate2> ] [ TABLE_value <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
<u>__readonly__</u>	(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_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
<i>TABLE_value</i>	(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

**Command Mode**

- /exec

show snapshots compare ipv4routes

## 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	Comapre 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
<u>__readonly__</u>	(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	Comapre 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
__readonly__	(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 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	Comapre 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
__readonly__	(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

### 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
<u>__readonly__</u>	(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

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
<u>__readonly__</u>	(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
<u>__readonly__</u>	(Optional)
TABLE_snapsection	(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-dhcp-relay drop statistics

## show snmp-dhcp-relay drop statistics

```
show snmp-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
    TABLE-cdrDropStatsTable <intf-out> <relay_disable> <invalid_msg_type> <intf_err> <tx_sock_err>
    <tx_fail_client_intf> <unknown_op_intf> <l3_unknown_op_intf> <max_hops> <opt82_fail> <malformed>
    <untrusted_relay_intf> <mct_drop> } ]
```

### Syntax Description

show	Show running system information
snmp-dhcp-relay	DHCP Relay
drop	Statistics related to DHCP drop statistics
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) interface index value
<u>__readonly__</u>	(Optional) Read only
TABLE-cdrDropStatsTable	(Optional)
<i>intf-in</i>	(Optional) Interface Index
<i>intf-out</i>	(Optional) Table index
<i>relay_disable</i>	(Optional) relay was disabled
<i>invalid_msg_type</i>	(Optional) invalid message type
<i>intf_err</i>	(Optional) interface error
<i>tx_sock_err</i>	(Optional) failed to send at server
<i>tx_fail_client_intf</i>	(Optional) failed to send to client
<i>unknown_op_intf</i>	(Optional) unknown output interface
<i>l3_unknown_op_intf</i>	(Optional) unknown vrf or interface
<i>max_hops</i>	(Optional) max hops exceeded
<i>opt82_fail</i>	(Optional) Option82 validation failed
<i>malformed</i>	(Optional) malformed pkts
<i>untrusted_relay_intf</i>	(Optional) untrusted interface
<i>mct_drop</i>	(Optional) dropped on MCT

### Command Mode

- /exec

show snmp-dhcp-relay statistics pkt

## show snmp-dhcp-relay statistics pkt

```
show snmp-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [ __readonly__ { TABLE-cdrStatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

### Syntax Description

show	Show running system information
snmp-dhcp-relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) Interface Index Value
pkt-type	DHCP Packet type
__readonly__	(Optional) Read only
TABLE-cdrStatsTable	(Optional)
<i>intf-in</i>	(Optional) table index - ifindex
<i>intf-out</i>	(Optional) table index
<i>type-in</i>	table index - packet type
<i>type-out</i>	(Optional) table index
<i>rx_pkts</i>	(Optional) received pkt count
<i>tx_pkts</i>	(Optional) transmitted pkt count
<i>drops</i>	(Optional) dropped pkt count

### Command Mode

- /exec

# show snmp-ipv6-dhcp-relay drop statistics

```
show snmp-ipv6-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {  
TABLE-cdrIpv6DropStatsTable <intf-out><relay_disabled><max_hops><invalid_pkt><unknown_op_intf>  
<invalid_vrf><opt_insert_failed><dir_reply_frm_server><ipv6_not_configured><intf_err>  
<vpn_option_disabled><ipv6_ext_hdr_present><mct_drop> } ]
```

## Syntax Description

show	Show running system information
snmp-ipv6-dhcp-relay	IPv6 DHCP Relay
drop	Statistics related to IPv6 DHCP drop statistics
statistics	Statistics related to IPv6 DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) interface index value
<u>__readonly__</u>	(Optional) Read only
TABLE-cdrIpv6DropStatsTable	(Optional)
<i>intf-in</i>	(Optional) Interface Index
<i>intf-out</i>	(Optional) Table index
<i>relay_disabled</i>	(Optional) DHCPv6 Relay is disabled
<i>max_hops</i>	(Optional) Max hops exceeded
<i>invalid_pkt</i>	(Optional) Packet validation failed
<i>unknown_op_intf</i>	(Optional) Unknown output interface
<i>invalid_vrf</i>	(Optional) Invalid VRF
<i>opt_insert_failed</i>	(Optional) Option Insertion Failed
<i>dir_reply_frm_server</i>	(Optional) Direct Replies (Recnfg/Adv/Reply) from server
<i>ipv6_not_configured</i>	(Optional) IPv6 addr not configured
<i>intf_err</i>	(Optional) Interface error
<i>vpn_option_disabled</i>	(Optional) VPN Option Disabled
<i>ipv6_ext_hdr_present</i>	(Optional) IPv6 extn headers present
<i>mct_drop</i>	(Optional) DHCP request dropped on MCT

```
show snmp-ipv6-dhcp-relay drop statistics
```

**Command Mode**

- /exec

# show snmp-ipv6-dhcp-relay statistics pkt

```
show snmp-ipv6-dhcp-relay statistics { [ interface <intf> | ifindex <ifindex> ] pkt-type <type-in> } [ __readonly__ { TABLE-cdrIpv6StatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

## Syntax Description

show	Show running system information
snmp-ipv6-dhcp-relay	IPv6 DHCP Relay
statistics	Statistics related to IPv6 DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) Interface Index Value
pkt-type	DHCP Packet type
__readonly__	(Optional) Read only
TABLE-cdrIpv6StatsTable	(Optional)
<i>intf-in</i>	(Optional) table index - ifindex
<i>intf-out</i>	(Optional) table index
<i>type-in</i>	table index - packet type
<i>type-out</i>	(Optional) table index
<i>rx_pkts</i>	(Optional) received pkt count
<i>tx_pkts</i>	(Optional) transmitted pkt count
<i>drops</i>	(Optional) dropped pkt count

## Command Mode

- /exec

show snmp

# 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
__readonly__	(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
sys_contact	(Optional) System Contact
sys_location	(Optional) System Location
snmp_input_packets	(Optional) SNMP input packets
bad_snmp_version	(Optional) bad snmp version in Input SNMP packets
unknown_community_name	(Optional) unknown community name in Input SNMP packets
illegal_community_name	(Optional) Illegal community name in Input SNMP packets
encoding_Err	(Optional) Encoding Errors in Input SNMP packets
req_var_nums	(Optional) number of requested variables
alt_var_nums	(Optional) number of altered variable
get_req_in	(Optional) GET request in Input SNMP packets
getnext_req_in	(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

show snmp

<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

```
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

```
show snmp group [ __readonly__ TABLE_role <role_name> <role_description> [ <attribute_scope> ] [ <permit_vsan> ] [ <permit_vlan> ] [ <permit_interface> ] [ <permit_vrf> ] [ 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
<u>__readonly__</u>	(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_interface</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
<u>__readonly__</u>	(Optional) Read Only
TABLE_host	(Optional) displays the list of hosts configured for snmp requests
TABLE_vrf_filters	(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 mib igmpCacheTable

## show snmp mib igmpCacheTable

```
show snmp mib igmpCacheTable [ <igmpCacheAddress-in> ] [ <igmpCacheIfIndex-in> ] [ __readonly__  
TABLE_igmpCacheTable <igmpCacheAddress-out> <igmpCacheIfIndex-out> <igmpCacheSelf>  
<igmpCacheLastReporter> <igmpCacheUpTime> <igmpCacheExpiryTime> <igmpCacheStatus>  
<igmpCacheVersion1HostTimer> ]
```

### Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
igmpCacheTable	show mib table igmpCacheTable
<i>igmpCacheAddress-in</i>	(Optional) igmpCacheAddress
<i>igmpCacheIfIndex-in</i>	(Optional) igmpCacheIfIndex
<i>__readonly__</i>	(Optional)
TABLE_igmpCacheTable	(Optional)
<i>igmpCacheAddress-out</i>	(Optional) mib table index igmpCacheAddress
<i>igmpCacheIfIndex-out</i>	(Optional) mib table index igmpCacheIfIndex
<i>igmpCacheSelf</i>	(Optional) mib object igmpCacheSelf
<i>igmpCacheLastReporter</i>	(Optional) mib object igmpCacheLastReporter
<i>igmpCacheUpTime</i>	(Optional) mib object igmpCacheUpTime
<i>igmpCacheExpiryTime</i>	(Optional) mib object igmpCacheExpiryTime
<i>igmpCacheStatus</i>	(Optional) mib object igmpCacheStatus
<i>igmpCacheVersion1HostTimer</i>	(Optional) mib object igmpCacheVersion1HostTimer

### Command Mode

- /exec

# show snmp mib igmpInterfaceTable

```
show snmp mib igmpInterfaceTable [ <igmpInterfaceIfIndex-in> ] [ __readonly__ TABLE_igmpInterfaceTable
<igmpInterfaceIfIndex-out> <igmpInterfaceQueryInterval> <igmpInterfaceStatus> <igmpInterfaceVersion>
<igmpInterfaceQuerier> <igmpInterfaceQueryMaxResponseTime> <igmpInterfaceQuerierUpTime>
<igmpInterfaceQuerierExpiryTime> <igmpInterfaceVersion1QuerierTimer>
<igmpInterfaceWrongVersionQueries> <igmpInterfaceJoins> <igmpInterfaceProxyIfIndex>
<igmpInterfaceGroups> <igmpInterfaceRobustness> <igmpInterfaceLastMembQueryIntvl> ]
```

## Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
igmpInterfaceTable	show mib table igmpInterfaceTable
<i>igmpInterfaceIfIndex-in</i>	(Optional) igmpInterfaceIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_igmpInterfaceTable</i>	(Optional)
<i>igmpInterfaceIfIndex-out</i>	(Optional) mib table index igmpInterfaceIfIndex
<i>igmpInterfaceQueryInterval</i>	(Optional) mib object igmpInterfaceQueryInterval
<i>igmpInterfaceStatus</i>	(Optional) mib object igmpInterfaceStatus
<i>igmpInterfaceVersion</i>	(Optional) mib object igmpInterfaceVersion
<i>igmpInterfaceQuerier</i>	(Optional) mib object igmpInterfaceQuerier
<i>igmpInterfaceQueryMaxResponseTime</i>	(Optional) mib object igmpInterfaceQueryMaxResponseTime
<i>igmpInterfaceQuerierUpTime</i>	(Optional) mib object igmpInterfaceQuerierUpTime
<i>igmpInterfaceQuerierExpiryTime</i>	(Optional) mib object igmpInterfaceQuerierExpiryTime
<i>igmpInterfaceVersion1QuerierTimer</i>	(Optional) mib object igmpInterfaceVersion1QuerierTimer
<i>igmpInterfaceWrongVersionQueries</i>	(Optional) mib object igmpInterfaceWrongVersionQueries
<i>igmpInterfaceJoins</i>	(Optional) mib object igmpInterfaceJoins
<i>igmpInterfaceProxyIfIndex</i>	(Optional) mib object igmpInterfaceProxyIfIndex
<i>igmpInterfaceGroups</i>	(Optional) mib object igmpInterfaceGroups
<i>igmpInterfaceRobustness</i>	(Optional) mib object igmpInterfaceRobustness
<i>igmpInterfaceLastMembQueryIntvl</i>	(Optional) mib object igmpInterfaceLastMembQueryIntvl

**show snmp mib igmplInterfaceTable****Command Mode**

- /exec

# show snmp mib pimCandidateRPTable

```
show snmp mib pimCandidateRPTable [ <pimCandidateRPGroupAddress-in> ] [ <pimCandidateRPGroupMask-in> ] [ __readonly__ TABLE_pimCandidateRPTable
<pimCandidateRPGroupAddress-out> <pimCandidateRPGroupMask-out> <pimCandidateRPAddress>
<pimCandidateRPRowStatus> ]
```

## Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimCandidateRPTable	show mib table pimCandidateRPTable
<i>pimCandidateRPGroupAddress-in</i>	(Optional) pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-in</i>	(Optional) pimCandidateRPGroupMask
<i>__readonly__</i>	(Optional)
TABLE_pimCandidateRPTable	(Optional)
<i>pimCandidateRPGroupAddress-out</i>	(Optional) mib table index pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-out</i>	(Optional) mib table index pimCandidateRPGroupMask
<i>pimCandidateRPAddress</i>	(Optional) mib object pimCandidateRPAddress
<i>pimCandidateRPRowStatus</i>	(Optional) mib object pimCandidateRPRowStatus

## Command Mode

- /exec

show snmp mib pimComponentTable

## show snmp mib pimComponentTable

```
show snmp mib pimComponentTable [ <pimComponentIndex-in> ] [ __readonly__  
TABLE_pimComponentTable <pimComponentIndex-out> <pimComponentBSRAddress>  
<pimComponentBSRExpiryTime> <pimComponentCRPHoldTime> <pimComponentStatus> ]
```

### Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimComponentTable	show mib table pimComponentTable
<i>pimComponentIndex-in</i>	(Optional) pimComponentIndex
<i>__readonly__</i>	(Optional)
TABLE_pimComponentTable	(Optional)
<i>pimComponentIndex-out</i>	(Optional) mib table index pimComponentIndex
<i>pimComponentBSRAddress</i>	(Optional) mib object pimComponentBSRAddress
<i>pimComponentBSRExpiryTime</i>	(Optional) mib object pimComponentBSRExpiryTime
<i>pimComponentCRPHoldTime</i>	(Optional) mib object pimComponentCRPHoldTime
<i>pimComponentStatus</i>	(Optional) mib object pimComponentStatus

### Command Mode

- /exec

# show snmp mib pimInterfaceTable

```
show snmp mib pimInterfaceTable [ <pimInterfaceIfIndex-in> ] [ __readonly__ TABLE_pimInterfaceTable
<pimInterfaceIfIndex-out> <pimInterfaceAddress> <pimInterfaceNetMask> <pimInterfaceMode>
<pimInterfaceDR> <pimInterfaceHelloInterval> <pimInterfaceStatus> <pimInterfaceJoinPruneInterval>
<pimInterfaceCBSRPreference> ]
```

## Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimInterfaceTable	show mib table pimInterfaceTable
<i>pimInterfaceIfIndex-in</i>	(Optional) pimInterfaceIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_pimInterfaceTable</i>	(Optional)
<i>pimInterfaceIfIndex-out</i>	(Optional) mib table index pimInterfaceIfIndex
<i>pimInterfaceAddress</i>	(Optional) mib object pimInterfaceAddress
<i>pimInterfaceNetMask</i>	(Optional) mib object pimInterfaceNetMask
<i>pimInterfaceMode</i>	(Optional) mib object pimInterfaceMode
<i>pimInterfaceDR</i>	(Optional) mib object pimInterfaceDR
<i>pimInterfaceHelloInterval</i>	(Optional) mib object pimInterfaceHelloInterval
<i>pimInterfaceStatus</i>	(Optional) mib object pimInterfaceStatus
<i>pimInterfaceJoinPruneInterval</i>	(Optional) mib object pimInterfaceJoinPruneInterval
<i>pimInterfaceCBSRPreference</i>	(Optional) mib object pimInterfaceCBSRPreference

## Command Mode

- /exec

show snmp mib pimIpMRouteNextHopTable

## show snmp mib pimIpMRouteNextHopTable

```
show snmp mib pimIpMRouteNextHopTable [ <ipMRouteNextHopGroup-in><ipMRouteNextHopSource-in>
<ipMRouteNextHopSourceMask-in> <ipMRouteNextHopIfIndex-in> <ipMRouteNextHopAddress-in> ] [
__readonly__ TABLE_pimIpMRouteNextHopTable <ipMRouteNextHopGroup-out>
<ipMRouteNextHopSource-out> <ipMRouteNextHopSourceMask-out> <ipMRouteNextHopIfIndex-out>
<ipMRouteNextHopAddress-out> <pimIpMRouteNextHopPruneReason> ]
```

### Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteNextHopTable	show mib table pimIpMRouteNextHopTable
<i>ipMRouteNextHopGroup-in</i>	(Optional) ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-in</i>	(Optional) ipMRouteNextHopSource
<i>ipMRouteNextHopSourceMask-in</i>	(Optional) ipMRouteNextHopSourceMask
<i>ipMRouteNextHopIfIndex-in</i>	(Optional) ipMRouteNextHopIfIndex
<i>ipMRouteNextHopAddress-in</i>	(Optional) ipMRouteNextHopAddress
<u>__readonly__</u>	(Optional)
TABLE_pimIpMRouteNextHopTable	(Optional)
<i>ipMRouteNextHopGroup-out</i>	(Optional) mib table index ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-out</i>	(Optional) mib table index pimComponentBSRAddress
<i>ipMRouteNextHopSourceMask-out</i>	(Optional) mib table index pimComponentBSRExpiryTime
<i>ipMRouteNextHopIfIndex-out</i>	(Optional) mib table index pimComponentCRPHoldTime
<i>ipMRouteNextHopAddress-out</i>	(Optional) mib table index pimComponentStatus
<i>pimIpMRouteNextHopPruneReason</i>	(Optional) mib object pimIpMRouteNextHopPruneReason

### Command Mode

- /exec

# show snmp mib pimIpMRouteTable

```
show snmp mib pimIpMRouteTable [ <ipMRouteGroup-in> ] [ <ipMRouteSource-in> ] [ <ipMRouteSourceMask-in> ] [ __readonly__ TABLE_pimIpMRouteTable <ipMRouteGroup-out> <ipMRouteSource-out> <ipMRouteSourceMask-out> <pimIpMRouteUpstreamAssertTimer> <pimIpMRouteAssertMetric> <pimIpMRouteAssertMetricPref> <pimIpMRouteAssertRPTBit> <pimIpMRouteFlags> ]
```

## Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteTable	show mib table pimIpMRouteTable
<i>ipMRouteGroup-in</i>	(Optional) ipMRouteGroup
<i>ipMRouteSource-in</i>	(Optional) ipMRouteSource
<i>ipMRouteSourceMask-in</i>	(Optional) ipMRouteSourceMask
<u>__readonly__</u>	(Optional)
TABLE_pimIpMRouteTable	(Optional)
<i>ipMRouteGroup-out</i>	(Optional) mib table index ipMRouteGroup-out
<i>ipMRouteSource-out</i>	(Optional) mib table index ipMRouteSource-out
<i>ipMRouteSourceMask-out</i>	(Optional) mib table index ipMRouteSourceMask-out
<i>pimIpMRouteUpstreamAssertTimer</i>	(Optional) mib object pimIpMRouteUpstreamAssertTimer
<i>pimIpMRouteAssertMetric</i>	(Optional) mib object pimIpMRouteAssertMetric
<i>pimIpMRouteAssertMetricPref</i>	(Optional) mib object pimIpMRouteAssertMetricPref
<i>pimIpMRouteAssertRPTBit</i>	(Optional) mib object pimIpMRouteAssertRPTBit
<i>pimIpMRouteFlags</i>	(Optional) mib object pimIpMRouteFlags

## Command Mode

- /exec

show snmp mib pimJoinPruneInterval

## show snmp mib pimJoinPruneInterval

show snmp mib pimJoinPruneInterval [ \_\_readonly\_\_ <pimJoinPruneInterval> ]

### Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimJoinPruneInterval	show mib scalar pimJoinPruneInterval
__readonly__	(Optional) Read Only
<i>pimJoinPruneInterval</i>	(Optional) mib object pimJoinPruneInterval

### Command Mode

- /exec

# show snmp mib pimNeighborTable

show snmp mib pimNeighborTable [ <pimNeighborAddress-in> ] [ \_\_readonly\_\_ TABLE\_pimNeighborTable <pimNeighborAddress-out> <pimNeighborIfIndex> <pimNeighborUpTime> <pimNeighborExpiryTime> ]

## Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimNeighborTable	show mib table pimNeighborTable
<i>pimNeighborAddress-in</i>	(Optional) pimNeighborAddress
<i>__readonly__</i>	(Optional)
TABLE_pimNeighborTable	(Optional)
<i>pimNeighborAddress-out</i>	(Optional) mib table index pimNeighborAddress
<i>pimNeighborIfIndex</i>	(Optional) mib object pimNeighborIfIndex
<i>pimNeighborUpTime</i>	(Optional) mib object pimNeighborUpTime
<i>pimNeighborExpiryTime</i>	(Optional) mib object pimNeighborExpiryTime

## Command Mode

- /exec

show snmp mib pimRPSetTable

## show snmp mib pimRPSetTable

```
show snmp mib pimRPSetTable [ <pimRPSetComponent-in> ] [ <pimRPSetGroupAddress-in> ] [ <pimRPSetGroupMask-in> ] [ <pimRPSetAddress-in> ] [ __readonly__ TABLE_pimRPSetTable <pimRPSetGroupAddress-out> <pimRPSetGroupMask-out> <pimRPSetAddress-out> <pimRPSetHoldTime> <pimRPSetExpiryTime> <pimRPSetComponent-out> ]
```

### Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimRPSetTable	show mib table pimRPSetTable
<i>pimRPSetComponent-in</i>	(Optional) pimRPSetComponent
<i>pimRPSetGroupAddress-in</i>	(Optional) pimRPSetGroupAddress
<i>pimRPSetGroupMask-in</i>	(Optional) pimRPSetGroupMask
<i>pimRPSetAddress-in</i>	(Optional) pimRPSetAddress
<i>__readonly__</i>	(Optional)
TABLE_pimRPSetTable	(Optional)
<i>pimRPSetGroupAddress-out</i>	(Optional) mib table index pimRPSetGroupAddress
<i>pimRPSetGroupMask-out</i>	(Optional) mib table index pimRPSetGroupMask
<i>pimRPSetAddress-out</i>	(Optional) mib table index pimRPSetAddress
<i>pimRPSetHoldTime</i>	(Optional) mib object pimRPSetHoldTime
<i>pimRPSetExpiryTime</i>	(Optional) mib object pimRPSetExpiryTime
<i>pimRPSetComponent-out</i>	(Optional) mib table index pimRPSetComponent

### Command Mode

- /exec

# show snmp pss

show snmp pss

## Syntax Description

show	Show running system information
snmp	show snmp information
pss	show SNMP pss

## Command Mode

- /exec

**show snmp roledebug**

## show snmp roledebug

show snmp roledebug

### Syntax Description

show	Show running system information
snmp	show snmp information
roledebug	show SNMP roledebug

### 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 snmpv3stats**

## show snmp snmpv3stats

show snmp snmpv3stats

### Syntax Description

show	Show running system information
snmp	show snmp information
snmpv3stats	show SNMP snmpdebug

### 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> [ { TABLE_groups <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
TABLE_groups	(Optional) table displays the gropus for specific user
<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

**show sockets buffers**

# show sockets buffers

```
show sockets buffers [ { [ all <count> ] [ free <count> ] } ]
```

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
buffers	Display detailed buffer statistics
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
<i>count</i>	(Optional) Number of buffers to dump

## Command Mode

- /exec

# show sockets client

```
show sockets client { [ pid <pid> ] [ tcp | udp | raw ] [ detail ] [ kstack-ns-all ] } [ __readonly__ [
TABLE_total_clients [ <socket-type> <total-clients> ] [ <no-total-clients> ] ] [ TABLE_cl_sk { <prefix>
<client-name> <pid> <No-of-clients> } [ <fast-tcp-mts-ctrl-q> ] [ { <cancel-requests> <cancel-unblocks>
<cancel-misses> <select-drops> <select-wakes> } ] [ TABLE_det [ { <fd> <client-id> [ <mts-sap> ] } ] ] [
TABLE_st [ <soc-calls> ] [ <bind-calls> ] [ <listen-calls> ] [ <accept-calls> ] [ <acc-dispat-err> ] [
<connect-calls> ] [ <connec-dispatch> ] [ <recvmsg-dispatch> ] [ <recv-dis-nblock> ] [ <recvmsg-call> ] [
<brecv-dispatch> ] [ <fsendmsg-calls> ] [ <sendmsg-dispatch> ] [ <sendmsg-calls> ] [ <msendmsg-calls>
[ <select-calls> ] [ <select-dispatch> ] [ <select-need-work> ] [ <sh-calls> ] [ <close-calls> ] [ <fcntl-calls>
] [ <iioctl-calls> ] [ <setsock-calls> ] [ <getsockname-calls> ] [ <getpeer-calls> ] [
<fork-calls> ] [ <execve-calls> ] [ <dup-calls> ] [ <can-calls> ] [ <can-miss> ] [ <can-unblk-sele> ] [
<soc-ha-calls> ] [ <pfork-client> ] [ <read-fd> ] [ <write-fd> ] [ <read-fd-set> ] [ <write-fd-set> ] [
<fast-tcp-send-req> ] [ <fast-tcp-send-suc> ] [ <fast-tcp-ack> ] ] [ TABLE_sterr [ <sock-err> ] [
<sock-nodev-err> ] [ <bind-err> ] [ <lis-err> ] [ <accept-err> ] [ <connect-err> ] [ <recvmsg-err> ] [
<brecvmsg-err> ] [ <fsendmsg-err> ] [ <sendmsg-err> ] [ <msndmsg-err> ] [ <select-err> ] [ <sel-nomem-err>
] [ <shut-err> ] [ <close-err> ] [ <fcntl-err> ] [ <iioctl-err> ] [ <setsoc-err> ] [ <getsocname-err>
] [ <getpeername-err> ] [ <fork-err> ] [ <execve-err> ] [ <dup-err> ] [ <psoc-vrf-err> ] [ <psoc-nosoc-err>
] [ <psoc-sock-null-err> ] [ <psoc-socre-err> ] [ <pbind-nsock-err> ] [ <pbd-getsocaddr> ] [ <pbind-sobind-err>
] [ <plisten-nsoc-err> ] [ <plis-solis-err> ] [ <pacc-nsoc-err> ] [ <pacc-no-nsoc-err> ] [ <pacc-soc-null-err>
] [ <pacc-copy-err> ] [ <pacc-no-acc-err> ] [ <pacc-woubl-err> ] [ <pacc-connabo-err> ] [
<pacc-cond-wait-err> ] [ <pacc-so-err-err> ] [ <pacc-err-err> ] [ <pcon-no-soc-err> ] [ <pcon-ealready-err>
] [ <pconn-getsock> ] [ <pconn-socon-err> ] [ <pconn-einpro-err> ] [ <pconn-con-wait-err> ] [
<psend-no-soc-err> ] [ <psend-inval-iov> ] [ <psend-getsoc-err> ] [ <psend-msg-ctrl-err> ] [
<psend-sockarg-err> ] [ <psend-pru-sosend> ] [ <precv-nosock-err> ] [ <precv-inval-iovlen> ] [
<precv-pru-sorecv> ] [ <precv-cp-msg-err> ] [ <precv-cp-msg-nlen> ] [ <precv-cp-data-err> ] [
<precv-rcvmsg-err> ] [ <pshut-no-soc-err> ] [ <psetsoc-val-err> ] [ <psetsoc-inv-val> ] [ <psetsoc-no-soc-err>
] [ <psetsoc-soseopt> ] [ <pgetsoc-no-socerr> ] [ <pgetsoc-cp-err> ] [ <pgetsoc-val-err> ] [ <pgetsoc-sogt-err>
] [ <pgtsoc-no-soc-err> ] [ <pgtsoc-cp-err> ] [ <pgtsoc-pru-soc-err> ] [ <pgtsoc-cpout-err> ] [
<pgtprne-no-soc-err> ] [ <pgtprne-enot-err> ] [ <pgtprne-cp-err> ] [ <pgtprne-pru-pradd> ] [
<pgtprne-cpout-err> ] [ <pclose-no-soc-err> ] [ <pclose-socnull-err> ] [ <pclose-p-cls2-err> ] [
<pfctl-no-soc-err> ] [ <pfctl-soc-null> ] [ <pfctl-enotsup> ] [ <pfctl-einval-err> ] [ <pioctl-no-soc-err>
] [ <pioctl-enotsup> ] [ <pioctl-pru-cntl> ] [ <pfork-enomem-err> ] [ <pdup-no-soc-err> ] [ <pdup-soc-null-err>
] [ <ha-nomem-err> ] [ <ha-tlv-err> ] [ <ha-soc-arg-err> ] [ <ha-cli-tlv-err> ] [ <ha-pss-upd-err> ] [
<ha-no-soc-err> ] [ <ha-soc-tlv-err> ] [ <ha-soc-pss-upd> ] [ <ha-inpcb-tlv> ] [ <ha-inpcb-pssky> ] [
<ha-ip-mopt-tlv> ] [ <ha-ip-mopt-pss> ] [ <ha-ip6-mopt-tlv> ] [ <ha-ip6-mopt-pss> ] [ <ha-tpcb-tlv> ] [
<ha-tpcb-pss> ] [ <ft-tcp-wblock> ] [ <ft-send-p-sndmsg> ] [ <ft-ack-recv-no-soc> ] [ <lxc-tgid-err> ] ] [
TABLE_sp_cl [ <can-requests> <can-unblocks> <can-misses> <sel-drops> <sel-wakes> ] ] ] ]
```

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
client	Display sockets client information
pid	(Optional) Display specific client process information
<i>pid</i>	(Optional) Display client process <pid>

**show sockets client**

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
<u>readonly</u>	(Optional)
TABLE_total_clients	(Optional) Total no of client sockets
socket-type	(Optional) Sockets type
total-clients	(Optional)
no-total-clients	(Optional)
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)
cancel-requests	(Optional)
cancel-unblocks	(Optional)
cancel-misses	(Optional)
select-drops	(Optional)
select-wakes	(Optional)
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)
bind-calls	(Optional)
listen-calls	(Optional)

<i>accept-calls</i>	(Optional)
<i>acc-dispat-err</i>	(Optional)
<i>connect-calls</i>	(Optional)
<i>connec-dispatch</i>	(Optional)
<i>recvmsg-dispatch</i>	(Optional)
<i>recv-dis-nblock</i>	(Optional)
<i>recvmsg-call</i>	(Optional)
<i>brecv-dispatch</i>	(Optional)
<i>fsendmsg-calls</i>	(Optional)
<i>sendmsg-dispatch</i>	(Optional)
<i>sendmsg-calls</i>	(Optional)
<i>msendmsg-calls</i>	(Optional)
<i>select-calls</i>	(Optional)
<i>select-dispatch</i>	(Optional)
<i>select-need-work</i>	(Optional)
<i>sh-calls</i>	(Optional)
<i>close-calls</i>	(Optional)
<i>fcntl-calls</i>	(Optional)
<i>ioctl-calls</i>	(Optional)
<i>setsock-calls</i>	(Optional)
<i>getsock-calls</i>	(Optional)
<i>getsockname-calls</i>	(Optional)
<i>getpeer-calls</i>	(Optional)
<i>fork-calls</i>	(Optional)
<i>execve-calls</i>	(Optional)
<i>dup-calls</i>	(Optional)
<i>can-calls</i>	(Optional)
<i>can-miss</i>	(Optional)
<i>can-unblk-sele</i>	(Optional)

**show sockets client**

<i>soc-ha-calls</i>	(Optional)
<i>pfork-client</i>	(Optional)
<i>read-fd</i>	(Optional)
<i>write-fd</i>	(Optional)
<i>read-fd-set</i>	(Optional)
<i>write-fd-set</i>	(Optional)
<i>fast-tcp-send-req</i>	(Optional)
<i>fast-tcp-send-suc</i>	(Optional)
<i>fast-tcp-ack</i>	(Optional)
TABLE_sterr	(Optional) Client Socket Error Statistics
<i>sock-err</i>	(Optional)
<i>sock-nodev-err</i>	(Optional)
<i>bind-err</i>	(Optional)
<i>lis-err</i>	(Optional)
<i>accept-err</i>	(Optional)
<i>connect-err</i>	(Optional)
<i>recvmsg-err</i>	(Optional)
<i>brcvmsg-err</i>	(Optional)
<i>fsendmsg-err</i>	(Optional)
<i>sendmsg-err</i>	(Optional)
<i>msndmsg-err</i>	(Optional)
<i>select-err</i>	(Optional)
<i>sel-nomem-err</i>	(Optional)
<i>shut-err</i>	(Optional)
<i>close-err</i>	(Optional)
<i>fcntl-err</i>	(Optional)
<i>ioctl-err</i>	(Optional)
<i>setsoc-err</i>	(Optional)
<i>getsoc-err</i>	(Optional)

<i>getsocname-err</i>	(Optional)
<i>getpeername-err</i>	(Optional)
<i>fork-err</i>	(Optional)
<i>execve-err</i>	(Optional)
<i>dup-err</i>	(Optional)
<i>psoc-vrf-err</i>	(Optional)
<i>psoc-nosoc-err</i>	(Optional)
<i>psoc-sock-null-err</i>	(Optional)
<i>psoc-socre-err</i>	(Optional)
<i>pbind-nsock-err</i>	(Optional)
<i>pbd-getsocaddr</i>	(Optional)
<i>pbind-sobind-err</i>	(Optional)
<i>plisten-nsoc-err</i>	(Optional)
<i>plis-solis-err</i>	(Optional)
<i>pacc-nsoc-err</i>	(Optional)
<i>pacc-no-nsoc-err</i>	(Optional)
<i>pacc-soc-null-err</i>	(Optional)
<i>pacc-copy-err</i>	(Optional)
<i>pacc-no-acc-err</i>	(Optional)
<i>pacc-woublo-err</i>	(Optional)
<i>pacc-connabo-err</i>	(Optional)
<i>pacc-cond-wait-err</i>	(Optional)
<i>pacc-so-err-err</i>	(Optional)
<i>pacc-err-err</i>	(Optional)
<i>pcon-no-soc-err</i>	(Optional)
<i>pcon-ealready-err</i>	(Optional)
<i>pconn-getsock</i>	(Optional)
<i>pconn-socon-err</i>	(Optional)
<i>pconn-einpro-err</i>	(Optional)

**show sockets client**

<i>pconn-con-wait-err</i>	(Optional)
<i>psend-no-soc-err</i>	(Optional)
<i>psend-inval-iov</i>	(Optional)
<i>psend-getsoc-err</i>	(Optional)
<i>psend-msg-ctrl-err</i>	(Optional)
<i>psend-sockarg-err</i>	(Optional)
<i>psend-pru-sosend</i>	(Optional)
<i>recv-nosock-err</i>	(Optional)
<i>recv-inval-iovlen</i>	(Optional)
<i>recv-pru-sorecv</i>	(Optional)
<i>recv-cp-msg-err</i>	(Optional)
<i>recv-cp-msg-nlen</i>	(Optional)
<i>recv-cp-data-err</i>	(Optional)
<i>pbrecv-rcvmsg-err</i>	(Optional)
<i>pshut-no-soc-err</i>	(Optional)
<i>psetsoc-val-err</i>	(Optional)
<i>psetsoc-inv-val</i>	(Optional)
<i>psetsoc-no-soc-err</i>	(Optional)
<i>psetsoc-soseopt</i>	(Optional)
<i>pgetsoc-no-socerr</i>	(Optional)
<i>pgetsoc-cp-err</i>	(Optional)
<i>pgetsoc-val-err</i>	(Optional)
<i>pgetsoc-sogt-err</i>	(Optional)
<i>pgtsoc-no-soc-err</i>	(Optional)
<i>pgtsoc-cp-err</i>	(Optional)
<i>pgtsoc-pru-soc-err</i>	(Optional)
<i>pgtsoc-cpout-err</i>	(Optional)
<i>pgtprne-no-soc-err</i>	(Optional)
<i>pgtprne-enot-err</i>	(Optional)

<i>pgtprne-cp-err</i>	(Optional)
<i>pgtprne-pru-pradd</i>	(Optional)
<i>pgtprne-cpout-err</i>	(Optional)
<i>pclose-no-soc-err</i>	(Optional)
<i>pclose-socnull-err</i>	(Optional)
<i>pclose-p-cls2-err</i>	(Optional)
<i>pfcntl-no-soc-err</i>	(Optional)
<i>pfcntl-soc-null</i>	(Optional)
<i>pfcntl-enotsup</i>	(Optional)
<i>pfcntl-einval-err</i>	(Optional)
<i>pioctl-no-soc-err</i>	(Optional)
<i>pioctl-enotsup</i>	(Optional)
<i>pioctl-pru-cntl</i>	(Optional)
<i>pfork-enomem-err</i>	(Optional)
<i>pdup-no-soc-err</i>	(Optional)
<i>pudp-soc-null-err</i>	(Optional)
<i>ha-nomem-err</i>	(Optional)
<i>ha-tlv-err</i>	(Optional)
<i>ha-soc-arg-err</i>	(Optional)
<i>ha-cli-tlv-err</i>	(Optional)
<i>ha-pss-upd-err</i>	(Optional)
<i>ha-no-soc-err</i>	(Optional)
<i>ha-soc-tlv-err</i>	(Optional)
<i>ha-soc-pss-upd</i>	(Optional)
<i>ha-inpcb-tlv</i>	(Optional)
<i>ha-inpcb-pssky</i>	(Optional)
<i>ha-ip-mopt-tlv</i>	(Optional)
<i>ha-ip-mopt-pss</i>	(Optional)
<i>ha-ip6-mopt-tlv</i>	(Optional)

show sockets client

<i>ha-ip6-mopt-pss</i>	(Optional)
<i>ha-tcpccb-tlv</i>	(Optional)
<i>ha-tcpccb-pss</i>	(Optional)
<i>ft-tcp-wblock</i>	(Optional)
<i>ft-send-p-sndmsg</i>	(Optional)
<i>ft-ack-rcv-no-soc</i>	(Optional)
<i>lxc-tgid-err</i>	(Optional) Containers tgid err
TABLE_sp_cl	(Optional) Sock specific Ctrl statistics
<i>can-requests</i>	(Optional)
<i>can-unblocks</i>	(Optional)
<i>can-misses</i>	(Optional)
<i>sel-drops</i>	(Optional)
<i>sel-wakes</i>	(Optional)

#### Command Mode

- /exec

# show sockets connection

```
show sockets connection [ pid <pid> | tcp | udp | raw ] [ local { <srcIP> | <srcIP6> } ] [ foreign { <dstIP> | <dstIP6> } ] [ detail ] [ keydetails ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_conn <prot> <tcp-state> <rcv-count> <laddr> <lport> <faddr> <fport> <intf> <rcv-count> <snd-count> <type> <ttl> <tos> <options> <state> <iss> <ssnd-una> <ssnd-nxt> <ssnd_wnd> <irs> <rcv-nxt> <rcv-wnd> <ssnd-cwnd> <srtt> <rtt> <rttvar> <krtt> <rttmin> <mss> <dur> <flags> <md5-cnt> <md5-host> <md5-err> <rcv-hiwat> <rcv-lowat> <rcv-flags> <ssnd-hiwat> <ssnd-lowat> <ssnd-flags> <tcp-count> <udp-count> <raw-count> ]
```

## 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 infomation
keydetails	(Optional) Display md5 key specific details
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_afi	(Optional)
<i>afi</i>	(Optional)
TABLE_conn	(Optional)
<i>prot</i>	(Optional)
<i>tcp-state</i>	(Optional)

**show sockets connection**

<i>recv-count</i>	(Optional)
<i>laddr</i>	(Optional)
<i>lport</i>	(Optional)
<i>faddr</i>	(Optional)
<i>fport</i>	(Optional)
<i>intf</i>	(Optional)
<i>snd-count</i>	(Optional)
<i>type</i>	(Optional)
<i>ttl</i>	(Optional)
<i>tos</i>	(Optional)
<i>options</i>	(Optional)
<i>state</i>	(Optional)
<i>iss</i>	(Optional)
<i>snd-una</i>	(Optional)
<i>snd-nxt</i>	(Optional)
<i>snd_wnd</i>	(Optional)
<i>irs</i>	(Optional)
<i>rcv-nxt</i>	(Optional)
<i>rcv-wnd</i>	(Optional)
<i>snd_cwnd</i>	(Optional)
<i>srtt</i>	(Optional)
<i>rtt</i>	(Optional)
<i>rttvar</i>	(Optional)
<i>krtt</i>	(Optional)
<i>rttmin</i>	(Optional)
<i>mss</i>	(Optional)
<i>dur</i>	(Optional)
<i>flags</i>	(Optional)
<i>md5-cnt</i>	(Optional)

<i>md5-host</i>	(Optional)
<i>md5-err</i>	(Optional)
<i>rcv-hiwat</i>	(Optional)
<i>rcv-lowat</i>	(Optional)
<i>rcv-flags</i>	(Optional)
<i>snd-hiwat</i>	(Optional)
<i>snd-lowat</i>	(Optional)
<i>snd-flags</i>	(Optional)
<i>tcp-count</i>	(Optional)
<i>udp-count</i>	(Optional)
<i>raw-count</i>	(Optional)

**Command Mode**

- /exec

```
show sockets keychain-dump
```

## show sockets keychain-dump

show sockets keychain-dump

### Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
keychain-dump	Dump the pss information for keychains

### 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> ]
```

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
local-port-range	Display local port range
__readonly__	(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

## Command Mode

- /exec

**show sockets performance**

# show sockets performance

show sockets performance [ clear ]

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
performance	Display detailed perf statistics
clear	(Optional) Clear perf statistics

## Command Mode

- /exec

# show sockets secure-lxc

show sockets secure-lxc

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
secure-lxc	Display secure-container sockets information

## Command Mode

- /exec

show sockets statistics

# show sockets statistics

```
show sockets statistics [ all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum ] [ __readonly__  
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_stat <version> <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-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> <tx-total> <tx-urg> <tx-ctrl> <tx-data-pack> <tx-data-bytes> <tx-reasm-pack>  
<tx-reasm-bytes> <tx-ackonly-pack> <tx-winprobe-pack> <tx-winupdate-bytes> <tx-conn-init>  
<tx-conn-accepted> <tx-conn-estd> <tx-rxmt-timeout> <tx-rxmt-timeout-dropped> <tx-ka-timeout>  
<tx-ka-probe> <tx-ka-drop> <closed> <dropped> <emb-dropped> <udp-rx-total> <udp-rx-bad-csum>  
<udp-rx-no-csum> <udp-rx-too-short> <udp-rx-bad-len> <udp-rx-no-port> <udp-rx-no-port-bcast>  
<udp-rx-no-port-mcast> <udp-rx-full-socket-drop> <udp-tx-total> <raw-rx-rcvd> <raw-rx-no-port>  
<raw-rx-full-socket-drop> <raw-tx-sent> ]
```

## Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
statistics	Display sockets statistics
all	(Optional) Display TCP/UDP/RRAW 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_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_afi	(Optional)
afi	(Optional)
TABLE_stat	(Optional)

<i>rx-total</i>	(Optional)
<i>rx-bad-csum</i>	(Optional)
<i>rx-bad-offset</i>	(Optional)
<i>rx-too-short</i>	(Optional)
<i>rx-bad-md5</i>	(Optional)
<i>rx-inseq-pack</i>	(Optional)
<i>rx-inseq-bytes</i>	(Optional)
<i>rx-dup-pack</i>	(Optional)
<i>rx-dup-bytes</i>	(Optional)
<i>rx-partdup-pack</i>	(Optional)
<i>rx-partdup-bytes</i>	(Optional)
<i>rx-oo-pack</i>	(Optional)
<i>rx-oo-bytes</i>	(Optional)
<i>rx-afterwin-pack</i>	(Optional)
<i>rx-afterwin-bytes</i>	(Optional)
<i>rx-afterclose-pack</i>	(Optional)
<i>rx-winprobe-pack</i>	(Optional)
<i>rx-winupdate-pack</i>	(Optional)
<i>rx-dupack-pack</i>	(Optional)
<i>rx-dupack-unsent-pack</i>	(Optional)
<i>rx-ack-pack</i>	(Optional)
<i>rx-ack-bytes</i>	(Optional)
<i>tx-total</i>	(Optional)
<i>tx-urg</i>	(Optional)
<i>tx-ctrl</i>	(Optional)
<i>tx-data-pack</i>	(Optional)
<i>tx-data-bytes</i>	(Optional)
<i>tx-reasm-pack</i>	(Optional)
<i>tx-reasm-bytes</i>	(Optional)

**show sockets statistics**

<i>tx-ackonly-pack</i>	(Optional)
<i>tx-winprobe-pack</i>	(Optional)
<i>tx-winupdate-bytes</i>	(Optional)
<i>tx-conn-init</i>	(Optional)
<i>tx-conn-accepted</i>	(Optional)
<i>tx-conn-estd</i>	(Optional)
<i>tx-rxmt-timeout</i>	(Optional)
<i>tx-rxmt-timeout-dropped</i>	(Optional)
<i>tx-ka-timeout</i>	(Optional)
<i>tx-ka-probe</i>	(Optional)
<i>tx-ka-drop</i>	(Optional)
<i>closed</i>	(Optional)
<i>dropped</i>	(Optional)
<i>emb-dropped</i>	(Optional)
<i>udp-rx-total</i>	(Optional)
<i>udp-rx-bad-csum</i>	(Optional)
<i>udp-rx-no-csum</i>	(Optional)
<i>udp-rx-too-short</i>	(Optional)
<i>udp-rx-bad-len</i>	(Optional)
<i>udp-rx-no-port</i>	(Optional)
<i>udp-rx-no-port-bcast</i>	(Optional)
<i>udp-rx-no-port-mcast</i>	(Optional)
<i>udp-rx-full-socket-drop</i>	(Optional)
<i>udp-tx-total</i>	(Optional)
<i>raw-rx-rcvd</i>	(Optional)
<i>raw-rx-no-port</i>	(Optional)
<i>raw-rx-full-socket-drop</i>	(Optional)
<i>raw-tx-sent</i>	(Optional)
<i>version</i>	(Optional)

**Command Mode**

- /exec

show sockets tcp keychain binding

# 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 reagarding RPM
<u>__readonly__</u>	(Optional)
TABLE_keychain	(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 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> <pvtsim_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
<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

**show spanning-tree**

<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>TABLE_port</i>	(Optional)
<i>if_index</i>	(Optional) Interface
<i>vpc</i>	(Optional) STP Port member of MCT/VPC PO

<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>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 ?

show spanning-tree

<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

show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] { <verbosity> | active } +

## 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

## Command Mode

- /exec

show spanning-tree blockedports

## show spanning-tree blockedports

{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] blockedports }

### 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
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 ] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { detail | brief } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { address | forward-time | hello-time | id | max-age | protocol } ] }
```

## 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

## Command Mode

- /exec

show spanning-tree inconsistentports

# show spanning-tree inconsistentports

{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] inconsistentports }

## 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
inconsistentports	Show inconsistent ports

## Command Mode

- /exec

# show spanning-tree interface

{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { cost | inconsistency | edge | priority | rootcost | state } }

## 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>	
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

## Command Mode

- /exec

show spanning-tree interface

# show spanning-tree interface

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-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_bpdufilter>  
<oper_bpdufilter> <int_bpdufilter> <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute>  
<pvstsim_inc_timer> <prestd> <boundary> <simulate_pvst> <oper_networkport> <simulate_pvst_cfg> ]
```

## 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>	
<u>__readonly__</u>	(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>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 ?

**show spanning-tree interface**

<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 interface

show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { <verbosity> | active } +

## 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

## Command Mode

- /exec

```
show spanning-tree issu-impact
```

## show spanning-tree issu-impact

show spanning-tree issu-impact

### Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
issu-impact	Show whether STP meets ISSU criteria

### 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_bpdufilter> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvtstsim_inc_timer> <boundary>
<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
<i>__readonly__</i>	(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

show spanning-tree mst

<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
<i>TABLE_port</i>	(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>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

show spanning-tree mst

<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 ?

### Command Mode

- /exec

# show spanning-tree mst configuration

```
{ show spanning-tree mst configuration [ __readonly__ <stp-mode> <name> <rev-id> { 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
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

```
{ 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
<u>__readonly__</u>	(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 detail

show spanning-tree mst [ <mst-id> ] detail

## 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

## Command Mode

- /exec

show spanning-tree mst interface

## 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> <bpduguard> <bpdudfilter>
<oper_portfast> <oper_p2p> <oper_looppguard> <oper_bpduguard> <oper_bpdudfilter> <int_bpdudfilter>
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <prestd> <boundary> <simulate_pvst>
[ <designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] [
<oper_networkport> ] [ <pvstsim_inc_timer> ] ]
```

### 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
<u>__readonly__</u>	(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

**show spanning-tree mst interface**

<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

**Command Mode**

- /exec

# show spanning-tree mst interface detail

show spanning-tree mst [ <mst-id> ] interface <interface-id> detail

## 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
interface	Spanning Tree interface status and configuration
<i>interface-id</i>	Specify an interface as a target for the command

## Command Mode

- /exec

```
show spanning-tree pathcost method
```

# show spanning-tree pathcost method

{ show spanning-tree pathcost method }

## Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
pathcost	Show Spanning pathcost options
method	Default pathcost calculation method

## Command Mode

- /exec

# show spanning-tree root

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ priority [ system-id ] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ { address | cost | forward-time | hello-time | id | max-age | port } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ { detail | brief } ] }
```

## 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

## Command Mode

- /exec

show spanning-tree summary

# 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_pcot_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
<u>__readonly__</u>	(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
<i>TABLE_tree</i>	(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

**show spanning-tree summary**

<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_pcot_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
__readonly__	(Optional) Read Only
stp-mode	(Optional) Spanning Tree operating mode
stp_tree_root_info	(Optional) STP Tree Root info marker
tree_type	(Optional) Tree Type
bridge_mac	(Optional) Bridge Mac
bridge_priority	(Optional) Bridge Priority
tree_designated_root	(Optional) Designated Root Mac
tree_designated_root_priority	(Optional) Designated Root Priority
stp_root_bmp_info	(Optional) STP root bitmap info marker
stp_root_tree_type	(Optional) Tree Type
tree_root_bmp	(Optional) STP tree root bmp
stp_l2gstp_bmp_info	(Optional) L2 Gateway STP bitmap marker
stp_l2gstp_tree_type	(Optional) Tree Type
stp_l2gstp_bmp	(Optional) L2 Gateway STP bitmap
stp_global_info	(Optional) STP global info marker
pcost_method	(Optional) STP pathcost method
oper_pcot_method	(Optional) STP oper pathcost method
port_fast	(Optional) Port Fast configured on port

show spanning-tree summary totals

<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
<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>
<eprom_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 <epld_name><epld_ver> } <port_type_num><max_connector_power>
<cooling_reqt><amb_temp> { TABLE_sensor_ssb <sensor_num_ssb><maj_thres_ssb><min_thres_ssb>
} } } { 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
<epld_name><epld_ver> } <port_type_num><max_connector_power><cooling_reqt><amb_temp> {
TABLE_sensor_lc <sensor_num_lc><maj_thres_lc><min_thres_lc> } } } { 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> } } } { wnn_specific_block { <blk_sig_wwnb><blk_ver_wwnb><blk_length_wwnb>
<blk_checksum_wwnb><wwn_usage_bits> } } { lic_specific_block { <blk_sig_licb><blk_ver_licb>
<blk_length_licb><blk_checksum_licb><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>
<multiprecord_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><custom_pinfo><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
srom	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

show 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)
cmn_block	(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>eeprom_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)

show sprm

<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)
<i>TABLE_epld</i>	(Optional)
<i>epld_name</i>	(Optional)
<i>epld_ver</i>	(Optional)
<i>port_type_num</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</i>	(Optional)
<i>TABLE_sensor(ssb)</i>	(Optional)
<i>sensor_num(ssb)</i>	(Optional)
<i>maj_thres(ssb)</i>	(Optional)
<i>min_thres(ssb)</i>	(Optional)
<i>lc_specific_block</i>	(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	(Optional)
<i>epld_name</i>	(Optional)
<i>epld_ver</i>	(Optional)
<i>port_type_num</i>	(Optional)
<i>max_connector_power</i>	(Optional)
<i>cooling_reqt</i>	(Optional)
<i>amb_temp</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>ps_specific_block</i>	(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)
<i>fan_specific_block</i>	(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)

show sprom

<i>amb_temp</i>	(Optional)
<i>temp_sensor_block</i>	(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)
<i>TABLE_sensor_tsb</i>	(Optional)
<i>sensor_num_tsb</i>	(Optional)
<i>maj_thres_tsb</i>	(Optional)
<i>min_thres_tsb</i>	(Optional)
<i>wwn_specific_block</i>	(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)
<i>wwn_usage_bits</i>	(Optional)
<i>lic_specific_block</i>	(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)
<i>lic_usage_bits</i>	(Optional)
<i>second_serial_block</i>	(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)

psu_common_block	(Optional)
format_version	(Optional)
internal_info_offset	(Optional)
chassis_info_offset	(Optional)
board_info_offset	(Optional)
product_info_offset	(Optional)
multirecord_info_offset	(Optional)
checksum	(Optional)
psu_board_info_block	(Optional)
format_version	(Optional)
length	(Optional)
language_code	(Optional)
mfg_date	(Optional)
mfg_type	(Optional)
mfg_info	(Optional)
name_type	(Optional)
product_name	(Optional)
snum_type	(Optional)
snum	(Optional)
part_type	(Optional)
partnum	(Optional)
fruid_type	(Optional)
fruid	(Optional)
bom_hw_pid_info	(Optional)
partnum_rev	(Optional)
fab_revision	(Optional)
vid	(Optional)
clei_len	(Optional)
clei	(Optional)

show sprm

<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>custom_pinfo</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 sprom fex**

show sprom fex <i> { all | backplane | powersupply <i1> }

#### Syntax Description

show	Show running system information
sprom	SPROM Contents
fex	Fex
<i>i</i>	Enter FEX identifier
all	Show all SPROM content on this specific FEX only
backplane	Show backplane SPROM content on this fex
powersupply	Show powersupply SPROM content on this fex only
<i>i1</i>	powersupply module number

#### Command Mode

- /exec

# show sprom fex all

show sprom fex all

## Syntax Description

show	Show running system information
sprom	SPROM Contents
fex	Fex
all	Show all SPROM content all FEX

## Command Mode

- /exec

**show ssh key**

# show ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | [ 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
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
<u>__readonly__</u>	(Optional)
operation_status	(Optional) run-time information about ssh
<i>o_status</i>	(Optional) operational status of ssh server

## Command Mode

- /exec

**show startup-config**

# 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

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

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 amt

show startup-config amt [ all ]

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
amt	Display amt 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 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

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

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

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

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

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 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 evb**

# 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

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 fabricpath
```

## 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

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 fex**

show startup-config fex [ all ]

**Syntax Description**

startup-config	Display the startup configuration
fex	show startup config of fex
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 hsrp
```

## 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 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

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

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

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

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

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

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 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

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 ldp

show startup-config mpls ldp [ all ]

## Syntax Description

show	Show running system information
startup-config	Current operating configuration
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
all	(Optional) Display running-config with defaults

## Command Mode

- /exec

```
show startup-config mpls static
```

## 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	Configure MPLS settings
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 mpls traffic-eng
```

## show startup-config mpls traffic-eng

show startup-config mpls traffic-eng [ all ]

### Syntax Description

show	Show running system information
startup-config	Current startup configuration
mpls	show startup config for mpls features
traffic-eng	show startup-config for Traffic Engineering
all	(Optional) show startup config 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 nbm**

# show startup-config nbm

show startup-config nbm

## Syntax Description

show	Show running system information
startup-config	Current startup configuration
nbm	show running config for 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 nx sdk**

# show startup-config nx sdk

show startup-config nx sdk [ all ]

## Syntax Description

show	Show running system information
startup-config	Display the startup configuration
nx sdk	NXOS SDK
all	(Optional) Display running 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

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 otv**

show startup-config otv [ all ]

**Syntax Description**

show	Show running system information
startup-config	Current startup configuration
otv	Display otv 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

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 port-profile**

## 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**

startup-config	Current startup configuration
ptp	show startup config for ptp
all	(Optional) show running config 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

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

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 rsvp**

## show startup-config rsvp

show startup-config rsvp

### Syntax Description

show	Show running system information
startup-config	Current startup configuration
rsvp	Display RSVP status

### 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 services**

# 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

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

## Command Mode

- /exec

**show startup-config snmp**

## 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 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 tacacs
```

## 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 udld

show startup-config udld

## Syntax Description

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

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

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

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

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 vrrp

show startup-config vrrp

## Syntax Description

show	Show system information
startup-config	System startup configuration
vrrp	VRRP startup configuration

## Command Mode

- /exec

```
show startup-config vrrpv3
```

## 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 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

```
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
__readonly__	(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**

# show switch-profile

```
show switch-profile [ __readonly__ <profile_name> <cfg_rev> ]
```

## Syntax Description

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

## Command Mode

- /exec

# show switch-profile buffer

show switch-profile [ <profile-name> ] buffer [ \_\_readonly\_\_ <prof-name> <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
<u>__readonly__</u>	(Optional)
<i>prof-name</i>	(Optional)
<i>seq_no</i>	(Optional)
<i>cmd</i>	(Optional)

## Command Mode

- /exec

show switch-profile peer

## 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
__readonly__	(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

**show switch-profile status**

- /exec

# show switch-scope controller

show switch-scope controller

## Syntax Description

show	Show running system information
switch-scope	switch-scope
controller	Controller command

## Command Mode

- /exec

show switching-mode

## show switching-mode

show switching-mode [ \_\_readonly\_\_ TABLE\_switching\_mode <switching-mode-desc> ]

### Syntax Description

show	Show running system information
switching-mode	Show the operating switching mode
__readonly__	(Optional)
TABLE_switching_mode	(Optional) the xml switching_mode configuration
switching-mode-desc	(Optional) switching mode description

### Command Mode

- /exec

# show switching-mode fabric-speed

show switching-mode fabric-speed [ \_\_readonly\_\_ TABLE\_switching\_mode <switching-mode-desc> ]

## Syntax Description

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

## Command Mode

- /exec

**show system acl**

## 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)
protocol	(Optional) protocol
TABLE_type	(Optional)
type	(Optional) type
acl_name	(Optional)
inout	(Optional) Traffic direction

### Command Mode

- /exec

# show system auto-collect tech-support

show system auto-collect tech-support

## 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

## Command Mode

- /exec

**show system boottime**

## 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
<u>__readonly__</u>	(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 clis event-history

show system [ internal ] clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors }

## Syntax Description

show	Display output
system	System-related show commands
internal	(Optional) Commands for internal use
clis	cli server
event-history	Event history logs for clis
nvdb	Log of NVDB and PSS events
client	Log of client interaction events
errors	Log of errors
parser	Log of parser events
ha	Log of ha events
cli	Log of command events
objstr	Log of Object Store events
objstr-errors	Log of Object Store error events

## Command Mode

- /exec

**show system cores**

# 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 dme status

show system dme status

## Syntax Description

show	Show running system information
system	System-related show commands
dme	Display dme information
status	Display dme enable/disable status information

## Command Mode

- /exec

show system error-id

## 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
__readonly__	(Optional)
<i>errorid</i>	(Optional)
<i>facility</i>	(Optional)
<i>desc</i>	(Optional)

### Command Mode

- /exec

# show system exception-info

show system exception-info

## Syntax Description

show	Show running system information
system	System-related show commands
exception-info	Show last exception log information

## Command Mode

- /exec

**show system fabric-mode**

## 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

## 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

## Command Mode

- /exec

show system inband queuing statistics

## show system inband queuing statistics

```
show system inband queuing statistics [ __readonly__ { TABLE_sys_inband_queue_stats <inbandpktunmap>
<inbandpktpduqueue> <inbandpktmapq0> <inbandpktmapq1> <klmpktmapbpdu> <klmpktmaparp>
<klmpktmapq0> <klmpktmapq1> <klmpktmapveobc> <queuename> [ TABLE_bpdu_stats { <pmrecvpkts>
<pmdroppkts> <pmcongested> <rcvbuf> <sndbuf> <pmnodrop> } ] [ TABLE_q_stats { <indexstat>
<pmrecvpkts> <pmdroppkts> <pmcongested> <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
<u>__readonly__</u>	(Optional)
TABLE_sys_inband_queue_stats	(Optional) System Inband Statistics
<i>inbandpktunmap</i>	(Optional) Inband packets unmapped
<i>inbandpktpduqueue</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>pmrecvpkts</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>pmnodrop</i>	(Optional) BPDU No drop
<i>TABLE_q_stats</i>	(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>ipmnodrop</i>	(Optional) Queue no drop

**Command Mode**

- /exec

**show system inband queuing status**

show system inband queuing status [ \_\_readonly\_\_ [ { TABLE\_sys\_inband\_queue\_status <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
<u>__readonly__</u>	(Optional)
TABLE_sys_inband_queue_status	(Optional) System Inband Status
<i>pminbandweigh0</i>	(Optional) BPDU Weight
<i>pminbandweigh1</i>	(Optional) Q0 Weight
<i>pminbandweigh2</i>	(Optional) Q1 Weight

#### Command Mode

- /exec

# show system kgdb

show system kgdb

## Syntax Description

show	Show running system information
system	System-related show commands
kgdb	Displays state of kgdb_enable flag

## Command Mode

- /exec

**show system login**

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

#### Syntax Description

show	Show running system information
system	System-related show commands
login	Display Secure Login Configurations and State
<u>__readonly__</u>	(Optional)
<i>acc_list</i>	(Optional) Applied 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

#### 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

show system memory-thresholds [ \_\_readonly\_\_ <critical\_mem\_threshold> <severe\_mem\_threshold> <minor\_mem\_threshold> ]

### Syntax Description

show	Show running system information
__readonly__	(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
__readonly__	(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\_\_ <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
__readonly__	(Optional)
<i>output</i>	(Optional)

#### 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)
summary	(Optional) PSS shrink summary
TABLE_per_vdc	(Optional)
vdc_id	(Optional) VDC id
TABLE_detail_events	(Optional) PSS shrink events
service	(Optional) Service name
vdc	(Optional) VDC number
event	(Optional) PSS evnets
TABLE_events	(Optional) PSS shrink events
service	(Optional) Service name
vdc	(Optional) VDC number
event	(Optional) PSS evnets

## Command Mode

- /exec

show system redundancy ha status

## 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
__readonly__	(Optional)
TABLE_ha_status	(Optional) HA status for all vdcs
<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
__readonly__	(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 State
<i>other_sup_internal_state</i>	(Optional) Supervisor State

## Command Mode

- /exec

show system reset-reason

## 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
<u>__readonly__</u>	(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
<u>__readonly__</u>	(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 fex**

show system reset-reason fex &lt;i&gt;

**Syntax Description**

show	Show running system information
system	System-related show commands
reset-reason	Show last reset reason
fex	Show fex last reset reason
<i>i</i>	Enter FEX identifier

**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
__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 resources**

# show system resources

show system resources &lt;i0&gt;

## Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	time interval in seconds

## 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> ] [ <current_memory_status> ] } ]
```

## Syntax Description

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

## Command Mode

- /exec

**show system resources module**

# show system resources module

show system resources [ <i0> ] module <module>

## Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
<i>module</i>	module number

## Command Mode

- /exec

# show system resources module all

show system resources [ <i0> ] module all

## Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
all	Show system resources for all modules

## Command Mode

- /exec

**show system routing mode**

## show system routing mode

show system routing mode [ \_\_readonly\_\_ TABLE\_system\_routing\_mode <system-routing-mode-desc> ]

### Syntax Description

show	Show running system information
system	Show system information
routing	Show routing related information
mode	Show mode related information
__readonly__	(Optional)
TABLE_system_routing_mode	(Optional) the xml system_routing_mode configuration
<i>system-routing-mode-desc</i>	(Optional) system routing mode description

### Command Mode

- /exec

# show system srg

show system srg

## Syntax Description

show	Show running system information
system	System-related show commands
srg	Displays the system SRG

## Command Mode

- /exec

show system standby manual-boot

## 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 switchover impact

## show system switchover impact

show system switchover impact [ <uri0> [ <uri1> ] ]

### Syntax Description

show	Show running system information
system	System-related show commands
switchover	Show the software switchover impact between two images
impact	impact {standby_system_uri} {active_system_uri}
<i>uri0</i>	(Optional) Enter standby URI
<i>uri1</i>	(Optional) Enter active URI

### 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
__readonly__	(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

show system verify bios { flash <i0> [ module <module> ] | protection <i1> [ module <module1> ] }

### 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

### 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
__readonly__	(Optional) Read Only
TABLE_vlan	(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