



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

Syntax Description		
	show	Show running system information
	sampler	Show Sampler Configuration
	name	(Optional) Show a specific Sampler
	<i>samplername</i>	(Optional) Specify a sampler
	<i>__readonly__</i>	(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

Command Mode

- /exec

show scheduler internal mem-stats

show scheduler internal mem-stats

Syntax Description

Syntax Description	
show	Show running system information
scheduler	Show scheduler config or data
internal	Display scheduler internal info
mem-stats	Display scheduler memory info

Command Mode

- /exec

show scheduler job

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

Syntax Description

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

Command Mode

- /exec

show scheduler logfile

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

Syntax Description

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

Command Mode

- /exec

show scheduler schedule

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

Syntax Description

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

Command Mode

- /exec

show sflow

show sflow

Syntax Description

Syntax Description	<code>show</code> Show running system information
---------------------------	---

	<code>sflow</code> Display sFlow global configuration
--	---

Command Mode

- /exec

show sflow statistics

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

Syntax Description

Syntax Description		
show		Show running system information
sflow		Display sFlow global configuration
statistics		Display sFlow statistics
<i>__readonly__</i>	(Optional)	Read only
<i>total-packets</i>	(Optional)	Total Packets
<i>total-samples</i>	(Optional)	Total Samples
<i>processed-samples</i>	(Optional)	Processed Samples
<i>dropped-samples</i>	(Optional)	Dropped Samples
<i>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

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

Command Mode

- /exec

show snapshots compare

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

Syntax Description

Syntax Description

show	Show running system information
snapshots	Snapshots present on the switch
compare	Compare two snapshots
<i>snapshot-name-T1</i>	Name of a snapshot taken at interval T1
<i>snapshot-name-T2</i>	Name of a snapshot taken at interval T2
<i>__readonly__</i>	(Optional)
<i>TABLE_feature</i>	(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
<i>TABLE_element</i>	(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
<i>TABLE_subrow</i>	(Optional)

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

Command Mode

- /exec

show snapshots compare ipv4routes

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

Syntax Description

Syntax Description

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

Syntax Description

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

Command Mode

- /exec

show snapshots compare summary

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

Syntax Description

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

Command Mode

- /exec

show snapshots dump

show snapshots dump <snapshot-name>

Syntax Description

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

Command Mode

- /exec

show snapshots sections

```
show snapshots sections [ __readonly__ TABLE_snapsection <sectname> <sectcmd> <sectrow> <sectkey1>
<sectkey2> ]
```

Syntax Description

Syntax Description		
show		Show running system information
snapshots		Snapshots present on the switch
sections		User-specified snapshot sections
__readonly__	(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 key 1
<i>sectkey2</i>	(Optional)	snapshot section key 2

Command Mode

- /exec

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

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
	<i>__readonly__</i>	(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 { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [ __readonly__
{ TABLE-cdrStatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

Syntax Description

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
	<i>__readonly__</i>	(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

```
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

Syntax Description

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

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

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

Command Mode

- /exec

show snmp community

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

Syntax Description

Syntax Description

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

Command Mode

- /exec

show snmp context

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

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
context	show snmp context mapping entries
<i>__readonly__</i>	(Optional)
<i>TABLE_snmp_contexts</i>	(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

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

Command Mode

- /exec

show snmp group

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

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
group	show snmp group
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_role</i>	(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)
<i>TABLE_rule</i>	(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

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

Command Mode

- /exec

show snmp internal climib loaded

show snmp internal climib loaded [<climib-name>]

Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
internal		show snmp internal information
climib		mibs implemented through cli messages
loaded		list loaded files
<i>climib-name</i>		(Optional) name of the climib (basename of .cli file without extension)

Command Mode

- /exec

show snmp internal climib mib cshc cshcInterfaceBufferTable ifindex

```
show snmp internal climib mib cshc cshcInterfaceBufferTable ifindex <ifindex_in> [ __readonly__ {
TABLE-cshcInterfaceBufferTable <ifindex_out> <tx_buffer> <rx_buffer> } ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
mib	Show snmp mib information
cshc	CISCO-SWITCH-HARDWARE-CAPACITY-MIB
cshcInterfaceBufferTable	cshcInterfaceBufferTable
ifindex	ifindex
<i>ifindex_in</i>	
<i>__readonly__</i>	(Optional)
TABLE-cshcInterfaceBufferTable	(Optional)
<i>ifindex_out</i>	(Optional)
<i>tx_buffer</i>	(Optional)
<i>rx_buffer</i>	(Optional)

Command Mode

- /exec

show snmp internal climib mib cshc cshcModuleInterfaceDropsTable ent_idx

```
show snmp internal climib mib cshc cshcModuleInterfaceDropsTable ent_idx <ent_idx_in> [ __readonly__
{ TABLE-cshcModuleInterfaceDropsTable <ent_idx_out> <tx_dropped> <rx_dropped> <tx_topdrop_port>
<rx_topdrop_port> <tx_topdrop_portlist> <rx_topdrop_portlist> } ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
mib	Show snmp mib information
cshc	CISCO-SWITCH-HARDWARE-CAPACITY-MIB
cshcModuleInterfaceDropsTable	cshcModuleInterfaceDropsTable
ent_idx	entPhysicalIndex
<i>ent_idx_in</i>	
<i>__readonly__</i>	(Optional)
<i>TABLE-cshcModuleInterfaceDropsTable</i>	(Optional)
<i>ent_idx_out</i>	(Optional)
<i>tx_dropped</i>	(Optional)
<i>rx_dropped</i>	(Optional)
<i>tx_topdrop_port</i>	(Optional)
<i>rx_topdrop_port</i>	(Optional)
<i>tx_topdrop_portlist</i>	(Optional)
<i>rx_topdrop_portlist</i>	(Optional)

Command Mode

- /exec

show snmp internal climib mib entity entAliasMappingTable entPhysicalIndex entAliasLogicalIndexOrZero

```
show snmp internal climib mib entity entAliasMappingTable entPhysicalIndex <entPhysicalIndex>
entAliasLogicalIndexOrZero <entAliasLogicalIndexOrZero> [ __readonly__ TABLE-entAliasMappingTable
<entPhysicalIndex-out> <entAliasLogicalIndexOrZero-out> <entAliasMappingIdentifier> ]
```

Syntax Description

Syntax Description	Description
show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show snmp mib information
entity	ENTITY-MIB
entAliasMappingTable	Show entAliasMappingTable
entPhysicalIndex	entity Physical Index
<i>entPhysicalIndex</i>	entity Physical Index
entAliasLogicalIndexOrZero	entity Alias Logical Index Or Zero
<i>entAliasLogicalIndexOrZero</i>	entity Alias Logical Index Or Zero
__readonly__	(Optional)
TABLE-entAliasMappingTable	(Optional) entAliasMappingTable
<i>entPhysicalIndex-out</i>	(Optional) entPhysicalIndex out
<i>entAliasLogicalIndexOrZero-out</i>	(Optional) entAliasLogicalIndexOrZero
<i>entAliasMappingIdentifier</i>	(Optional) entAliasMappingIdentifier

Command Mode

- /exec

show snmp internal climib mib entity entPhysicalContainsTable entPhysicalIndex entPhysicalChildIndex

```
show snmp internal climib mib entity entPhysicalContainsTable entPhysicalIndex <entPhysicalIndex>
entPhysicalChildIndex <entPhysicalChildIndex> [ __readonly__ TABLE-entPhysicalContainsTable
<entPhysicalIndex-out> <entPhysicalChildIndex-out> ]
```

Syntax Description

Syntax Description	Description
show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
entity	ENTITY-MIB
entPhysicalContainsTable	Show entPhysicalContainsTable
entPhysicalIndex	entity Physical Index
<i>entPhysicalIndex</i>	entity Physical Index
entPhysicalChildIndex	entity Physical Child Index
<i>entPhysicalChildIndex</i>	entity Physical Child Index
__readonly__	(Optional)
TABLE-entPhysicalContainsTable	(Optional) entPhysicalContainsTable
<i>entPhysicalIndex-out</i>	(Optional) entPhysicalIndex out
<i>entPhysicalChildIndex-out</i>	(Optional) entPhysicalChildIndex out

Command Mode

- /exec

show snmp internal climib mib error-disable cErrDisableIfStatusTable ifIndex vlan

```
show snmp internal climib mib error-disable cErrDisableIfStatusTable ifIndex <ifx-in> vlan <vlan-in> [
__readonly__ [ TABLE-cErrDisableIfStatusTable <ifx-out> <vlan-out> <cause-out> <recoverytime-out> ] ]
```

Syntax Description

Syntax Description

show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
error-disable	ERROR-DISABLE
cErrDisableIfStatusTable	Show cErrDisableIfStatusTable
ifIndex	ifIndex
<i>ifx-in</i>	ifIndex value
vlan	vlan id
<i>vlan-in</i>	vlan id value
<i>__readonly__</i>	(Optional)
TABLE-cErrDisableIfStatusTable	(Optional) If Error disabled status
<i>ifx-out</i>	(Optional) Interface index
<i>vlan-out</i>	(Optional) vlan id
<i>cause-out</i>	(Optional) cause
<i>recoverytime-out</i>	(Optional) recoverytime

Command Mode

- /exec

show snmp internal climib mib fibCounterTable

```
show snmp internal climib mib fibCounterTable <entPhysicalIndex-in> <counterIndex-in> [ __readonly__ [
TABLE-fibCounterTable <entPhysicalIndex-out> <counterIndex-out> <counterDescription> <counterValue>
]]
```

Syntax Description

Syntax Description		
show		Show information
snmp		Show SNMP information
internal		Show SNMP internal information
climib		Show SNMP internal climib information
mib		Show SNMP mib information
fibCounterTable		Show fibCounterTable
<i>entPhysicalIndex-in</i>		entPhysicalIndex
<i>counterIndex-in</i>		counter index
<i>__readonly__</i>		(Optional) read only
TABLE-fibCounterTable		(Optional) FIB Table
<i>entPhysicalIndex-out</i>		(Optional) entPhysicalIndex
<i>counterIndex-out</i>		(Optional) counter index
<i>counterDescription</i>		(Optional) counter description
<i>counterValue</i>		(Optional) counter value

Command Mode

- /exec

show snmp internal climib mib ifext cieIfDot1dBaseMappingTable ifindex

```
show snmp internal climib mib ifext cieIfDot1dBaseMappingTable ifindex <ifindex> [ __readonly__ {
TABLE-cieIfDot1dBaseMappingTable <ifext-ifindex> <ifext-dot1dBaseport> } ]
```

Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
internal		show snmp internal information
climib		mibs implemented through cli messages
mib		Show snmp mib information
ifext		CISCO-IF-EXTENSION-MIB
cieIfDot1dBaseMappingTable		Show cieIfDot1dBaseMappingTable
ifindex		IfIndex
<i>ifindex</i>		IfIndex of an interface or 0
<i>__readonly__</i>		(Optional)
TABLE-cieIfDot1dBaseMappingTable		(Optional)
<i>ifext-ifindex</i>		(Optional) IfIndex of an interface or 0
<i>ifext-dot1dBaseport</i>		(Optional) dot1dBasePort number for the interface

Command Mode

- /exec

show snmp internal climib mib pfcext cpfcIfPriorityTable ifIndex priority

```
show snmp internal climib mib pfcext cpfcIfPriorityTable ifIndex <ifx-in> priority <grp-in> [ __readonly__
[ Table-cpfcIfPriorityTable <ifx-out> <grp-out> <req-out> <indications-out> ] ]
```

Syntax Description

Syntax Description	show	Show information
	snmp	Show SNMP information
	internal	Show SNMP internal information
	climib	Show SNMP internal climib information
	mib	Show SNMP mib information
	pfcext	PFC-EXTENSION
	cpfcIfPriorityTable	Show cpfcIfPriorityTable
	ifIndex	ifIndex
	<i>ifx-in</i>	ifIndex value
	priority	Priority
	<i>grp-in</i>	Priority Value
	__readonly__	(Optional)
	Table-cpfcIfPriorityTable	(Optional) PFC cos stats
	<i>ifx-out</i>	(Optional) Interface index
	<i>grp-out</i>	(Optional) Priority group
	<i>req-out</i>	(Optional) rx-stats
	<i>indications-out</i>	(Optional) tx-stats

Command Mode

- /exec

show snmp internal climib mib pfcext cpfcIfTable ifIndex

```
show snmp internal climib mib pfcext cpfcIfTable ifIndex <ifx-in> [ __readonly__ [ TABLE-cpfcIfTable
<ifx-out> <req-out> <indications-out> ] ]
```

Syntax Description

Syntax Description

show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
pfcext	PFC-EXTENSION
cpfcIfTable	Show cpfcIfTable
ifIndex	ifIndex
<i>ifx-in</i>	ifIndex value
<i>__readonly__</i>	(Optional)
TABLE-cpfcIfTable	(Optional) PFC stats
<i>ifx-out</i>	(Optional) Interface index
<i>req-out</i>	(Optional) rx-ppp
<i>indications-out</i>	(Optional) tx-ppp

Command Mode

- /exec

show snmp internal climib mib pfcext cpfcWatchdogIfQueueInfoTable ifIndex queue-number

```
show snmp internal climib mib pfcext cpfcWatchdogIfQueueInfoTable ifIndex <ifx-in> queue-number
<queue-in> [ __readonly__ [ Table-cpfcWatchdogIfQueueInfoTable <ifx-out> <queue-out> <state-out>
<shuts-out> <restores-out> <totaldrops-out> <queuedrops-out> ] ]
```

Syntax Description

Syntax Description	Description
show	Show information
snmp	Show SNMP information
internal	Show SNMP internal information
climib	Show SNMP internal climib information
mib	Show SNMP mib information
pfcext	PFC-EXTENSION
cpfcWatchdogIfQueueInfoTable	Show cpfcWatchdogIfQueueInfoTable
ifIndex	ifIndex
<i>ifx-in</i>	ifIndex value
queue-number	Queue Number
<i>queue-in</i>	Queue Value
__readonly__	(Optional)
Table-cpfcWatchdogIfQueueInfoTable	(Optional) PFC queue watchdog stats
<i>ifx-out</i>	(Optional) Interface index
<i>queue-out</i>	(Optional) Queue
<i>state-out</i>	(Optional) Queue State
<i>shuts-out</i>	(Optional) Shutdowns
<i>restores-out</i>	(Optional) Resotres
<i>totaldrops-out</i>	(Optional) Total Pkt Drops
<i>queuedrops-out</i>	(Optional) Queue Dops

Command Mode

- /exec

show snmp internal climib mib vlanif cviVlanInterfaceIndexTable vlan-id ifindex

```
show snmp internal climib mib vlanif cviVlanInterfaceIndexTable vlan-id <vlan> ifindex <ifindex> [
__readonly__ { TABLE-cviVlanInterfaceIndexTable <vlanif-vlan> <vlanif-main-ifindex> <vlanif-ifindex>
} ]
```

Syntax Description

Syntax Description		
show		Show running system information
snmp		show snmp information
internal		show snmp internal information
climib		mibs implemented through cli messages
mib		Show snmp mib information
vlanif		CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB
cviVlanInterfaceIndexTable		Show cviVlanInterfaceIndexTable
vlan-id		VLAN ID
<i>vlan</i>		VLAN ID
ifindex		Ifindex
<i>ifindex</i>		Ifindex of a subinterface or 0 for SVI
<i>__readonly__</i>		(Optional)
TABLE-cviVlanInterfaceIndexTable		(Optional)
<i>vlanif-vlan</i>		(Optional) Vlan ID
<i>vlanif-main-ifindex</i>		(Optional) Ifindex of a subinterface or 0 for SVI
<i>vlanif-ifindex</i>		(Optional) Ifindex of the routed Vlan interface

Command Mode

- /exec

show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqIfQosGroupInfoTable [ ifIndex <ifIndex-in> [
csqIfQosGroupInfoDirection <ifDirection-in> [ csqIfQosGroupInfoGroupNumber <ifGroupNum-in> ] ] ] ]
[ __readonly__ TABLE_csqIfQosGroupInfoTable <ifIndex-out> <csqIfQosGroupInfoDirection-out>
<csqIfQosGroupInfoGroupNumber-out> <csqIfQosGroupInfoQueueSize> <csqIfQosGroupInfoHwMTU>
<csqIfQosGroupInfoMTU> <csqIfQosGroupInfoDropType> <csqIfQosGroupInfoResumeThresh>
<csqIfQosGroupInfoPauseThresh> <csqIfQosGroupInfoScheduling> <csqIfQosGroupInfoBandwidth>
<csqIfQosGroupInfoBandwidthUnits> <csqIfQosGroupInfoShapeMinThresh>
<csqIfQosGroupInfoShapeMaxThresh> <csqIfQosGroupInfoShapeUnits> ]
```

Syntax Description

Syntax Description

show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqIfQosGroupInfoTable	(Optional) csqIfQosGroupInfoTable
ifIndex	(Optional) Interface index
<i>ifIndex-in</i>	(Optional) Interface index value
csqIfQosGroupInfoDirection	(Optional) csqIfQosGroupInfoDirection
<i>ifDirection-in</i>	(Optional) ifDirection-in
csqIfQosGroupInfoGroupNumber	(Optional) csqIfQosGroupInfoGroupNumber
<i>ifGroupNum-in</i>	(Optional) ifGroupNum-in
<i>__readonly__</i>	(Optional)
TABLE_csqIfQosGroupInfoTable	(Optional) Qos Group Info Table
<i>ifIndex-out</i>	(Optional) If Index Out value
<i>csqIfQosGroupInfoDirection-out</i>	(Optional) Packet Direction
<i>csqIfQosGroupInfoGroupNumber-out</i>	(Optional) Group Number
<i>csqIfQosGroupInfoQueueSize</i>	(Optional) Queue Size
<i>csqIfQosGroupInfoHwMTU</i>	(Optional) Hardware MTU
<i>csqIfQosGroupInfoMTU</i>	(Optional) MTU
<i>csqIfQosGroupInfoDropType</i>	(Optional) Dro Type

<i>csqIfQosGroupInfoResumeThresh</i>	(Optional) Resume Threshold
<i>csqIfQosGroupInfoPauseThresh</i>	(Optional) Pause Threshold
<i>csqIfQosGroupInfoScheduling</i>	(Optional) Scheduling
<i>csqIfQosGroupInfoBandwidth</i>	(Optional) Bandwidth
<i>csqIfQosGroupInfoBandwidthUnits</i>	(Optional) Bandwidth Units
<i>csqIfQosGroupInfoShapeMinThresh</i>	(Optional) Shape Min
<i>csqIfQosGroupInfoShapeMaxThresh</i>	(Optional) Shape Max
<i>csqIfQosGroupInfoShapeUnits</i>	(Optional) Shape Units

Command Mode

- /exec

show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqIfQosGroupStatsTable [ ifIndex <ifIndex-in> [
csqIfQosGroupStatsDirection <ifDirection-in> [ csqIfQosGroupStatsGroupNumber <ifGroupNum-in> [
csqIfQosGroupStatsType <statsType-in> ] ] ] ] [ __readonly__ TABLE_csqIfQosGroupStatsTable
<ifIndex-out> <csqIfQosGroupStatsDirection-out> <csqIfQosGroupStatsGroupNumber-out>
<csqIfQosGroupStatsType-out> <csqIfQosGroupStatsValue> ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqIfQosGroupStatsTable	(Optional) csqIfQosGroupStatsTable
ifIndex	(Optional) Interface Index
<i>ifIndex-in</i>	(Optional) Interface index value
csqIfQosGroupStatsDirection	(Optional) csqIfQosGroupInfoDirection
<i>ifDirection-in</i>	(Optional) ifDirection-in
csqIfQosGroupStatsGroupNumber	(Optional) csqIfQosGroupInfoGroupNumber
<i>ifGroupNum-in</i>	(Optional) ifGroupNum-in
csqIfQosGroupStatsType	(Optional) csqIfQosGroupStatsType
<i>statsType-in</i>	(Optional) StatsType
__readonly__	(Optional)
TABLE_csqIfQosGroupStatsTable	(Optional) Qos Group Info Table
<i>ifIndex-out</i>	(Optional) If Index Out value
<i>csqIfQosGroupStatsDirection-out</i>	(Optional) Packet Direction
<i>csqIfQosGroupStatsGroupNumber-out</i>	(Optional) Group Number
<i>csqIfQosGroupStatsType-out</i>	(Optional) Stats Counter type
<i>csqIfQosGroupStatsValue</i>	(Optional) Stats counter value

Command Mode

- /exec

show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqIfPriGrpInBufUsageTable [ ifIndex <ifidx> [
csqIfPriGrpInBufUsageGrpNo <pgidx> ] ] ] [ __readonly__ TABLE-csqIfPriGrpInBufUsageTable <ifidx_out>
<pgidx_out> <pg_min_count> <pg_shared_count> <pg_hdrm_count> <pg_glb_hdrm_count>
<pg_shared_hiwm> <pg_hdrm_hiwm> ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqIfPriGrpInBufUsageTable	(Optional) Priority Group Input buffer usage table
ifIndex	(Optional) Interface index
<i>ifidx</i>	(Optional) Index val
csqIfPriGrpInBufUsageGrpNo	(Optional) Priority Group index
<i>pgidx</i>	(Optional) Index val
<i>__readonly__</i>	(Optional) Read Only
TABLE-csqIfPriGrpInBufUsageTable	(Optional) SNMP table
<i>ifidx_out</i>	(Optional) Interface index out
<i>pgidx_out</i>	(Optional) PG index out
<i>pg_min_count</i>	(Optional) PG min count
<i>pg_shared_count</i>	(Optional) PG shared count
<i>pg_hdrm_count</i>	(Optional) PG headroom count
<i>pg_glb_hdrm_count</i>	(Optional) PG global headroom count
<i>pg_shared_hiwm</i>	(Optional) PG shared high watermark
<i>pg_hdrm_hiwm</i>	(Optional) PG headroom high watermark

Command Mode

- /exec

show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqSharedPoolUsageTable [ entPhysicalIndex <mod_ent> [
csqSharedPoolUsageInstNo <inst_id> [ csqSharedPoolUsagePoolNo <sp_num> ] ] ] [ __readonly__
TABLE-csqSharedPoolUsageTable <mod_ent_out> <inst_id_out> <sp_num_out> <sp_used> <sp_remain>
<sp_peak> <sp_total> <sp_used_tx> <sp_remain_tx> <sp_peak_tx> <sp_total_tx> <sp_name_tx> ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqSharedPoolUsageTable	(Optional) SNMP table csqSharedPoolUsageTable
entPhysicalIndex	(Optional) The entity index of module
<i>mod_ent</i>	(Optional)
csqSharedPoolUsageInstNo	(Optional) The instance NO. of the module
<i>inst_id</i>	(Optional)
csqSharedPoolUsagePoolNo	(Optional) Service pool
<i>sp_num</i>	(Optional) Servie pool number
<i>__readonly__</i>	(Optional) Read Only
TABLE-csqSharedPoolUsageTable	(Optional)
<i>mod_ent_out</i>	(Optional) Module entity
<i>inst_id_out</i>	(Optional) Instance ID
<i>sp_num_out</i>	(Optional) Service Pool number
<i>sp_used</i>	(Optional) Used Cells
<i>sp_remain</i>	(Optional) Remain Cells
<i>sp_peak</i>	(Optional) Peak Cells
<i>sp_total</i>	(Optional) Total Cells
<i>sp_used_tx</i>	(Optional) Used Cells
<i>sp_remain_tx</i>	(Optional) Remain Cells

<i>sp_peak_tx</i>	(Optional) Peak Cells
<i>sp_total_tx</i>	(Optional) Total Cells
<i>sp_name_tx</i>	(Optional) Tx SP Name

Command Mode

- /exec

show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqServicePoolCellSize ] [ __readonly__
SCALAR-csqServicePoolCellSize <cell_size> ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqServicePoolCellSize	(Optional) SNMP table csqServicePoolCellSize
__readonly__	(Optional) Read Only
SCALAR-csqServicePoolCellSize	(Optional)
<i>cell_size</i>	(Optional) Cell size

Command Mode

- /exec

show snmp internal climib switch-qos

```
show snmp internal climib switch-qos [ csqHwSharedPoolUsageTable [ entPhysicalIndex <mod_ent> [
csqHwSharedPoolDeviceId <device_id> [ csqHwSharedPoolUsageInstNo <inst_id> [
csqHwSharedPoolStatsDirection <stats_dir> [ csqHwSharedPoolStatsType <sp_type> ]]]]]] [ __readonly__
TABLE-csqHwSharedPoolUsageTable <mod_ent_out> <device_id_out> <inst_id_out> <stats_dir_out>
<sp_type_out> <sp_used> <sp_remain> <sp_peak> <sp_total> ]
```

Syntax Description

Syntax Description

show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
switch-qos	CISCO-SWITCH-QOS-MIB
csqHwSharedPoolUsageTable	(Optional) SNMP table csqHwSharedPoolUsageTable
entPhysicalIndex	(Optional) The entity index of module
<i>mod_ent</i>	(Optional)
csqHwSharedPoolDeviceId	(Optional) The device ID
<i>device_id</i>	(Optional)
csqHwSharedPoolUsageInstNo	(Optional) The instance NO. of the module
<i>inst_id</i>	(Optional)
csqHwSharedPoolStatsDirection	(Optional) The traffic direction
<i>stats_dir</i>	(Optional)
csqHwSharedPoolStatsType	(Optional) Service pool stats Type
<i>sp_type</i>	(Optional) Servie pool type
<i>__readonly__</i>	(Optional) Read Only
TABLE-csqHwSharedPoolUsageTable	(Optional)
<i>mod_ent_out</i>	(Optional) Module entity
<i>device_id_out</i>	(Optional) Device ID
<i>inst_id_out</i>	(Optional) Instance ID
<i>stats_dir_out</i>	(Optional) Service Pool stats direction

<i>sp_type_out</i>	(Optional) Service Pool type
<i>sp_used</i>	(Optional) Used Cells
<i>sp_remain</i>	(Optional) Remain Cells
<i>sp_peak</i>	(Optional) Peak Cells
<i>sp_total</i>	(Optional) Total Cells

Command Mode

- /exec

show snmp internal climib test

show snmp internal climib test <id> [__readonly__ <snmp-id>]

Syntax Description

Syntax Description		
show	Show running system information	
snmp	show snmp information	
internal	show snmp internal information	
climib	mibs implemented through cli messages	
test	test	
<i>id</i>	test id	
<i>__readonly__</i>	(Optional) Read only	
<i>snmp-id</i>	(Optional)	

Command Mode

- /exec

show snmp internal climib trace

```
show snmp internal climib trace [ <buffers> ]
```

Syntax Description

Syntax Description	
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
trace	debug trace buffers (always on)
<i>buffers</i>	(Optional) trace buffer

Command Mode

- /exec

show snmp internal climib trace core

show snmp internal climib trace core <pid>

Syntax Description

Syntax Description	Description
show	Show running system information
snmp	show snmp information
internal	show snmp internal information
climib	mibs implemented through cli messages
trace	debug trace buffers (always on)
core	display trace info from a core file (all buffers)
<i>pid</i>	PID from 'show cores'

Command Mode

- /exec

show snmp internal conditional-loaded-mib-dump

show snmp internal conditional-loaded-mib-dump

Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	conditional-loaded-mib-dump	conditional mib loaded in the agent

Command Mode

- /exec

show snmp internal eem-policy

show snmp internal eem-policy

Syntax Description

Syntax Description		
show		Show commands
snmp		show snmp information
internal		show snmp internal information
eem-policy		EEM policies in the snmp publisher

Command Mode

- /exec

show snmp internal feature-mgr-dump

show snmp internal feature-mgr-dump

Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	feature-mgr-dump	conditional features and their mibs

Command Mode

- /exec

show snmp internal globals

show snmp internal globals

Syntax Description

Syntax Description

show Show commands

snmp show snmp information

internal show snmp internal information

globals show snmp all global variables

Command Mode

- /exec

show snmp internal loaded mibs

show snmp internal loaded mibs

Syntax Description

Syntax Description	
show	Show commands
snmp	show snmp information
internal	show snmp internal information
loaded	show snmp all loaded mib modules
mibs	show snmp all loaded mib modules

Command Mode

- /exec

show snmp internal oids notification

show snmp internal oids notification

Syntax Description

Syntax Description		
show	Show commands	
snmp	show snmp information	
internal	show snmp internal information	
oids	show snmp oids	
notification	show snmp supported notifications	

Command Mode

- /exec

show snmp internal oids registered

show snmp internal oids registered

Syntax Description

Syntax Description		
show	Show commands	
snmp	show snmp information	
internal	show snmp internal information	
oids	show snmp oids	
registered	show snmp all registred mib oids	

Command Mode

- /exec

show snmp internal oids supported

show snmp internal oids supported [create]

Syntax Description

Syntax Description	
show	Show commands
snmp	show snmp information
internal	show snmp internal information
oids	show snmp oids
supported	show snmp supported oid requests
create	(Optional) create snmp supported oid file

Command Mode

- /exec

show snmp internal oids unsupported

show snmp internal oids unsupported

Syntax Description

Syntax Description		
show		Show commands
snmp		show snmp information
internal		show snmp internal information
oids		show snmp oids
unsupported		show snmp unsupported oid requests

Command Mode

- /exec

show snmp internal protocol-instance-table

show snmp internal protocol-instance-table

Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	protocol-instance-table	protocol instance-sap table

Command Mode

- /exec

show snmp internal registered-notifications

show snmp internal registered-notifications

Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	registered-notifications	show snmp mts registered notifications

Command Mode

- /exec

show snmp internal tcp connections

show snmp internal tcp connections

Syntax Description

Syntax Description		
	show	Show commands
	snmp	show snmp information
	internal	show snmp internal information
	tcp	show snmp tcp connections
	connections	show snmp tcp connections

Command Mode

- /exec

show snmp internal trace log

show snmp internal trace log

Syntax Description

Syntax Description	
show	Show commands
snmp	show snmp information
internal	show snmp internal information
trace	show snmp trace log
log	show snmp trace log

Command Mode

- /exec

show snmp internal translate oidorname

show snmp internal translate oidorname <nameoroid>

Syntax Description

Syntax Description		
show	Show commands	
snmp	show snmp information	
internal	show snmp internal information	
translate	translate oid to name and name to oid	
oidorname	translate oid to name and name to oid	
<i>nameoroid</i>	OID or name that needs translation	

Command Mode

- /exec

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

Syntax Description	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)
<i>TABLE_igmpCacheTable</i>	(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

Syntax Description	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

Command Mode

- /exec

show snmp mib pimCandidateRPTable

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

Syntax Description

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)	
<i>TABLE_pimCandidateRPTable</i>	(Optional)	
<i>pimCandidateRPGroupAddress-out</i>	(Optional)	mib table index pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-out</i>	(Optional)	mib table index pimCandidateRPGroupMask
<i>pimCandidateRPAAddress</i>	(Optional)	mib object pimCandidateRPAAddress
<i>pimCandidateRPRowStatus</i>	(Optional)	mib object pimCandidateRPRowStatus

Command Mode

- /exec

show snmp mib pimComponentTable

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

Syntax Description

Syntax Description	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)
<i>TABLE_pimComponentTable</i>	(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

Syntax Description	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 [ <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

Syntax Description	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
<i>__readonly__</i>	(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

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
<i>__readonly__</i>	(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 [ __readonly__ <pimJoinPruneInterval> ]
```

Syntax Description

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

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)	
<i>TABLE_pimNeighborTable</i>	(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 [ <pimRPSetComponent-in> ] [ <pimRPSetGroupAddress-in> ] [
<pimRPSetGroupMask-in> ] [ <pimRPSetAddress-in> ] [ __readonly__ TABLE_pimRPSetTable
<pimRPSetGroupAddress-out> <pimRPSetGroupMask-out> <pimRPSetAddress-out> <pimRPSetHoldTime>
<pimRPSetExpiryTime> <pimRPSetComponent-out> ]
```

Syntax Description

Syntax Description	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

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

Command Mode

- /exec

show snmp roleddebug

show snmp roleddebug

Syntax Description

Syntax Description		
show	Show running system information	
snmp	show snmp information	
roleddebug	show SNMP roleddebug	

Command Mode

- /exec

show snmp sessions

```
show snmp sessions [ __readonly__ { TABLE_session <dest> } ]
```

Syntax Description

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
dest	(Optional)	destination

Command Mode

- /exec

show snmp snmpv3stats

show snmp snmpv3stats

Syntax Description

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

Syntax Description

show	Show running system information
snmp	show snmp information
source-interface	show source-interface through which notifications are sent
<i>__readonly__</i>	(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

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

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
	<code>__readonly__</code>	(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 snmpmib internal errors

show snmpmib internal [event-history] errors

Syntax Description

Syntax Description		
show		Show running system information
snmpmib		Show information about snmpmib
internal		Show internal snmpmib information
event-history	(Optional)	Show various event logs of Snmpmib_procs
errors		Show error logs of SNMPMIB_PROC

Command Mode

- /exec

show snmpmib internal info

show snmpmib internal info [{ global }]

Syntax Description

Syntax Description

show Show running system information

snmpmib Show information about snmpmib

internal Show internal snmpmib information

info Show internal data structure information

global (Optional) Display snmpmib global info

Command Mode

- /exec

show snmpmib internal mem-stats

show snmpmib internal mem-stats [detail]

Syntax Description

Syntax Description	
show	Show running system information
snmpmib	Show information about snmpmib
internal	Show internal snmpmib information
mem-stats	Show memory allocation statistics of SNMPMIB_PROC
detail	(Optional) Show detail memstats for F_Port Server

Command Mode

- /exec

show snmpmib internal msgs

show snmpmib internal [event-history] msgs

Syntax Description

Syntax Description

show	Show running system information
snmpmib	Show information about snmpmib
internal	Show internal snmpmib information
event-history	(Optional) Show various event logs of Snmpmib_procs
msgs	Show various message logs of SNMPMIB_PROC

Command Mode

- /exec

show sockets buffers

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

Syntax Description

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

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> ] [ <recvmmsg-dispatch> ] [ <recv-dis-nblock> ] [ <recvmmsg-call> ] [
<brecv-dispatch> ] [ <fsendmsg-calls> ] [ <sendmsg-dispatch> ] [ <sendmsg-calls> ] [ <msendmsg-calls> ] [
<select-calls> ] [ <select-dispatch> ] [ <select-need-work> ] [ <sh-calls> ] [ <close-calls> ] [ <fcntl-calls>
] [ <iocctl-calls> ] [ <setsock-calls> ] [ <getsock-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> ] [ <recvmmsg-err> ] [
<brcvmmsg-err> ] [ <fsendmsg-err> ] [ <sendmsg-err> ] [ <msndmsg-err> ] [ <select-err> ] [ <sel-nomem-err>
] [ <shut-err> ] [ <close-err> ] [ <fcntl-err> ] [ <iocctl-err> ] [ <setsoc-err> ] [ <getsoc-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-nsoc-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-woublo-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> ] [
<pbrcv-rcvmmsg-err> ] [ <pshut-no-soc-err> ] [ <psetsoc-val-err> ] [ <psetsoc-inv-val> ] [ <psetsoc-no-soc-err>
] [ <psetsoc-sosetopt> ] [ <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> ] [
<pfcntl-no-soc-err> ] [ <pfcntl-soc-null> ] [ <pfcntl-enotsup> ] [ <pfcntl-einval-err> ] [ <pioctl-no-soc-err>
] [ <pioctl-enotsup> ] [ <pioctl-pru-cntl> ] [ <pfork-enomem-err> ] [ <pdup-no-soc-err> ] [ <pudp-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-tcpcb-tlv> ] [
<ha-tcpcb-pss> ] [ <ft-tcp-wblock> ] [ <ft-send-p-sndmsg> ] [ <ft-ack-rcv-no-soc> ] [ <!xc-tgid-err> ] ] [
TABLE_sp_cl [ <can-requests> <can-unblocks> <can-misses> <sel-drops> <sel-wakes> ] ] ] ]
```

Syntax Description

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>

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

<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)

pconn-con-wait-err (Optional)

psend-no-soc-err (Optional)

psend-ival-iov (Optional)

psend-getsoc-err (Optional)

psend-msg-ctrl-err (Optional)

psend-sockarg-err (Optional)

psend-pru-sosend (Optional)

precv-nosock-err (Optional)

precv-ival-iovlen (Optional)

precv-pru-sorecv (Optional)

precv-cp-msg-err (Optional)

precv-cp-msg-nlen (Optional)

precv-cp-data-err (Optional)

pbrecv-rcvmsg-err (Optional)

pshut-no-soc-err (Optional)

psetsoc-val-err (Optional)

psetsoc-inv-val (Optional)

psetsoc-no-soc-err (Optional)

psetsoc-sosetopt (Optional)

pgetsoc-no-socerr (Optional)

pgetsoc-cp-err (Optional)

pgetsoc-val-err (Optional)

pgetsoc-sogt-err (Optional)

pgtsoc-no-soc-err (Optional)

pgtsoc-cp-err (Optional)

pgtsoc-pru-soc-err (Optional)

pgtsoc-cpout-err (Optional)

pgtprne-no-soc-err (Optional)

pgtprne-enot-err (Optional)

pgtprne-cp-err (Optional)

pgtprne-pru-pradd (Optional)

pgtprne-cpout-err (Optional)

pclose-no-soc-err (Optional)

pclose-socnull-err (Optional)

pclose-p-cls2-err (Optional)

pfcntl-no-soc-err (Optional)

pfcntl-soc-null (Optional)

pfcntl-enotsup (Optional)

pfcntl-einval-err (Optional)

pioctl-no-soc-err (Optional)

pioctl-enotsup (Optional)

pioctl-pru-cntl (Optional)

pfork-enomem-err (Optional)

pdup-no-soc-err (Optional)

puudp-soc-null-err (Optional)

ha-nomem-err (Optional)

ha-tlv-err (Optional)

ha-soc-arg-err (Optional)

ha-cli-tlv-err (Optional)

ha-pss-upd-err (Optional)

ha-no-soc-err (Optional)

ha-soc-tlv-err (Optional)

ha-soc-pss-upd (Optional)

ha-inpcb-tlv (Optional)

ha-inpcb-pssky (Optional)

ha-ip-mopt-tlv (Optional)

ha-ip-mopt-pss (Optional)

ha-ip6-mopt-tlv (Optional)

<i>ha-ip6-mopt-pss</i>	(Optional)
<i>ha-tcpcb-tlv</i>	(Optional)
<i>ha-tcpcb-pss</i>	(Optional)
<i>fi-tcp-wblock</i>	(Optional)
<i>fi-send-p-sndmsg</i>	(Optional)
<i>fi-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> <snd-una> <snd-nxt> <snd_wnd> <irs> <rcv-nxt> <rcv-wnd> <snd-cwnd> <srtt> <rtt> <rttvar> <krtt> <rttmin> <mss> <dur> <flags> <md5-cnt> <md5-host> <md5-err> <rcv-hiwat> <rcv-lowat> <rcv-flags> <snd-hiwat> <snd-lowat> <snd-flags> <tcp-count> <udp-count> <raw-count> ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
sockets	Display sockets status and configuration
connection	Display connection information
pid	(Optional) Display specific client process connection status
<i>pid</i>	(Optional) Display client process connection status <pid>
tcp	(Optional) Display all TCP connections
udp	(Optional) Display all UDP connections
raw	(Optional) Display all raw connections
local	(Optional) Display all TCP connections with specified local address
<i>srcIP</i>	(Optional) Display all TCP connections with specified local address
foreign	(Optional) Display all TCP connections with specified foreign address
<i>dstIP</i>	(Optional) Display all TCP connections with specified foreign address
detail	(Optional) Display detailed connection information
keydetails	(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)
<i>rcv-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)

md5-cnt (Optional)

md5-host (Optional)

md5-err (Optional)

rcv-hiwat (Optional)

rcv-lowat (Optional)

rcv-flags (Optional)

snd-hiwat (Optional)

snd-lowat (Optional)

snd-flags (Optional)

tcp-count (Optional)

udp-count (Optional)

raw-count (Optional)

Command Mode

- /exec

show sockets internal dispatch

```
show sockets internal { dispatch-statistics | { mem-stats [ detail ] } }
```

Syntax Description

Syntax Description		
show		Show running system information
sockets		Display sockets status and configuration
internal		Display internal sockets information
dispatch-statistics		Display internal dispatch thread details
mem-stats		Show memory allocation statistics
detail		(Optional) Display detailed information

Command Mode

- /exec

show sockets internal event-history

show sockets internal event-history { errors | msgs | setup | ha | events | proto | log }

Syntax Description

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
internal	Display internal sockets information
event-history	Show various event logs of sockets
errors	Show error logs of sockets
msgs	Show various message logs of sockets
setup	Show setup debug message of sockets
ha	Show ha debug message of sockets
events	Show events/pcb debug message of sockets
proto	Show tcp/udp/raw ip debug message of sockets
log	Show syslog message of sockets

Command Mode

- /exec

show sockets internal event-history buffer-size

show sockets internal event-history buffer-size { errors | msgs | setup | ha | events | proto | log | all }

Syntax Description

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
buffer-size	Show current size of the buffers
internal	Display internal sockets information
event-history	Show various event logs of sockets
errors	Show error logs buffer size of sockets
msgs	Show various message logs buffer size of sockets
setup	Show setup debug message buffer size of sockets
ha	Show ha debug message buffer size of sockets
events	Show events/pcb debug message buffer size of sockets
proto	Show tcp/udp/raw ip debug message buffer size of sockets
log	Show syslog message buffer size of sockets
all	Show sizes of all event history buffers

Command Mode

- /exec

show sockets keychain-dump

show sockets keychain-dump

Syntax Description

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

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

Command Mode

- /exec

show sockets performance

show sockets performance [clear]

Syntax Description

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

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 [ 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

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
statistics	Display sockets statistics
all	(Optional) Display TCP/UDP/RAW v4/v6 protocols statistics
tcp	(Optional) Display TCP v4 protocol statistics
tcp6	(Optional) Display TCP v6 protocol statistics
tcpsum	(Optional) Display sum of TCP v4 and TCP v6 protocols statistics
udp	(Optional) Display UDP v4 protocol statistics
udp6	(Optional) Display UDP v6 protocol statistics
udpsum	(Optional) Display sum of UDP v4 and UDP v6 protocols statistics
raw	(Optional) Display RAW v4 protocol statistics
raw6	(Optional) Display RAW v6 protocol statistics
rawsum	(Optional) Display sum of RAW v4 and RAW v6 protocols statistics
__readonly__	(Optional)
TABLE_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)

<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 [ __readonly__ { TABLE_keychain <keychain> <handle> <ref_count> } ]
```

Syntax Description

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

Command Mode

- /exec

show (spanning-tree/mst/configuration)

show [pending]

Syntax Description

Syntax Description

show Display region configurations

pending (Optional) Display the new mst configuration to be applied

Command Mode

- /exec/configure/spanning-tree/mst/configuration

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> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ]
```

Syntax Description

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

<i>root_path_cost</i>	(Optional) Root Path Cost
<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>topology_change</i>	(Optional) Topology Change flag is set ?
<i>topology_change_detected</i>	(Optional) Topology Change detected flag is set ?
<i>topology_change_count</i>	(Optional) Topology Change Count
<i>topology_change_time_since_last</i>	(Optional) Time since last TC
<i>tc_initiator_if_index</i>	(Optional) Topology Change initiator port
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>hold_time</i>	(Optional) Configured Hold Time
<i>hello_timer</i>	(Optional) Hello Timer Value
<i>topology_change_timer</i>	(Optional) Topology Change Timer Value
<i>tcn_timer</i>	(Optional) TCN Timer Value
<i>aging_timer</i>	(Optional) Ageing Timer Value
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>vpc</i>	(Optional) STP Port memebr 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 ?

<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

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 [ vlan <vlan-id> | bridge-domain <bd-id> ] blockedports }
```

Syntax Description

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

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 [ vlan <vlan-id> | bridge-domain <bd-id> ] inconsistentports }
```

Syntax Description

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> [ __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> <bpdu_in> <bpdu_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<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

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

<i>simulate_pvst</i>	(Optional) Is port in 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

Syntax Description

<code>show</code>	Show running system information
<code>spanning-tree</code>	Show spanning tree information
<code>vlan</code>	(Optional) VLAN Switch Spanning Trees
<code>bridge-domain</code>	(Optional) Bridge-Domain Switch Spanning Trees
<code>vlan-id</code>	(Optional) vlan range, Example: 1,3-5,7,9-11
<code>bd-id</code>	(Optional) Bridge-Domain range, Example: 2,4-5,7,9-11
<code>interface</code>	Spanning Tree interface status and configuration
<code>interface-id</code>	
<code>verbosity</code>	verbosity
<code>active</code>	Report on active instances only

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

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 internal errors

show spanning-tree internal [event-history] errors

Syntax Description

Syntax Description		
show	Show	running system information
spanning-tree	Show	information about stp
internal	Show	internal STP information
event-history	(Optional)	Show various event logs of stp
errors	Show	error logs of STP

Command Mode

- /exec

show spanning-tree internal event-history

```
show spanning-tree internal event-history { { tree <tree-id> [ all-ports | interface <interface-id> ] } | deleted
| all } [ brief ]
```

Syntax Description

Syntax Description

show	Show running system information
spanning-tree	Show information about stp
internal	Show internal STP information
event-history	Show various event logs of stp
tree	Show spanning tree instance info
<i>tree-id</i>	Enter tree id
all-ports	(Optional) Show information for all ports of the tree
interface	(Optional) Spanning Tree interface status and configuration
<i>interface-id</i>	(Optional)
deleted	Show event history of deleted trees and ports
all	Show all event historys
brief	(Optional) Show brief format

Command Mode

- /exec

show spanning-tree internal event-history stp-lite

show spanning-tree internal event-history stp-lite

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
event-history	Show various event logs of stp	
stp-lite	Show STP-lite related event logs	

Command Mode

- /exec

show spanning-tree internal event-history vpc pes

show spanning-tree internal event-history vpc pes

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show information about stp
internal		Show internal STP information
event-history		Show various event logs of stp
vpc		Show virtual Port-channel event logs
pes		Show virtual Port-channel PES event logs

Command Mode

- /exec

show spanning-tree internal event-history vpc sps

show spanning-tree internal event-history vpc sps

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
event-history	Show various event logs of stp	
vpc	Show virtual Port-channel event logs	
sps	Show virtual Port-channel SPS event logs	

Command Mode

- /exec

show spanning-tree internal flc-info

show spanning-tree internal flc-info [vlan <vlan-id> | bridge-domain <bd-id>]

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
flc-info	Show forwarding LC Info	
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	

Command Mode

- /exec

show spanning-tree internal info all

show spanning-tree internal info all

Syntax Description

Syntax	Description
show	Show running system information
spanning-tree	Show spanning tree information
internal	Show internal STP information
info	Show internal data structure information
all	Show all information

Command Mode

- /exec

show spanning-tree internal info flush qstats

show spanning-tree internal info flush qstats

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
flush		MAC Address Flush
qstats		MAC Address Flush queue stats

Command Mode

- /exec

show spanning-tree internal info flush stats

show spanning-tree internal info flush stats

Syntax Description

Syntax	Description
show	Show running system information
spanning-tree	Show spanning tree information
internal	Show internal STP information
info	Show internal data structure information
flush	MAC Address Flush
stats	MAC Address Flush stats

Command Mode

- /exec

show spanning-tree internal info global

show spanning-tree internal info global

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
global		Show global information

Command Mode

- /exec

show spanning-tree internal info issu

show spanning-tree internal info issu

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
issu		Show information related to ISSU

Command Mode

- /exec

show spanning-tree internal info l2gstp

```
show spanning-tree internal info l2gstp [ vlan <vlan-id> ]
```

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
info	Show internal data structure information	
l2gstp	L2 Gateway STP	
vlan	(Optional) Show spanning tree instance info	
<i>vlan-id</i>	(Optional) Enter tree id	

Command Mode

- /exec

show spanning-tree internal info l2gstp peer-info

```
show spanning-tree internal info l2gstp peer-info [ pss ]
```

Syntax Description

Syntax	Description
show	Show running system information
spanning-tree	Show spanning tree information
internal	Show internal STP information
info	Show internal data structure information
l2gstp	L2 Gateway STP
peer-info	L2 Gateway Peer Information
pss	(Optional) L2 Gateway Peer Information PSS

Command Mode

- /exec

show spanning-tree internal info l2gstp sdb

show spanning-tree internal info l2gstp sdb

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
l2gstp		L2 Gateway STP
sdb		L2 Gaeway STP SDB

Command Mode

- /exec

show spanning-tree internal info sps-pending

show spanning-tree internal info sps-pending

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
info	Show internal data structure information	
sps-pending	Show pending set port states	

Command Mode

- /exec

show spanning-tree internal info sps-q-stats

show spanning-tree internal info sps-q-stats

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show spanning tree information
internal		Show internal STP information
info		Show internal data structure information
sps-q-stats		Set port state queue stats

Command Mode

- /exec

show spanning-tree internal info stp-lite stats

show spanning-tree internal info stp-lite [tree <tree-id>] stats

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
info	Show internal data structure information	
stp-lite	Show STP-lite related info	
tree	(Optional) Show spanning tree instance info	
<i>tree-id</i>	(Optional) Enter tree id	
stats	Show STP-lite stats counters	

Command Mode

- /exec

show spanning-tree internal info tree

show spanning-tree internal info tree <tree-id> [all-ports | interface <interface-id>]

Syntax Description

Syntax Description

show	Show running system information
spanning-tree	Show spanning tree information
internal	Show internal STP information
info	Show internal data structure information
tree	Show spanning tree instance info
<i>tree-id</i>	Enter tree id
all-ports	(Optional) Show information for all ports of the tree
interface	(Optional) Spanning Tree interface status and configuration
<i>interface-id</i>	(Optional)

Command Mode

- /exec

show spanning-tree internal info vpc

show spanning-tree internal info vpc

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show spanning tree information	
internal	Show internal STP information	
info	Show internal data structure information	
vpc	Show Virtual Port-channel (vPC) information and stats	

Command Mode

- /exec

show spanning-tree internal interactions

show spanning-tree internal interactions

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show information about stp
internal		Show internal STP information
interactions		Show interactions with other components

Command Mode

- /exec

show spanning-tree internal mem-stats

show spanning-tree internal mem-stats [detail]

Syntax Description

Syntax Description		
show	Show running system information	
spanning-tree	Show information about stp	
internal	Show internal STP information	
mem-stats	Show memory allocation statistics of STP	
detail	(Optional) Show detail memstats for stp	

Command Mode

- /exec

show spanning-tree internal msgs

show spanning-tree internal [event-history] msgs

Syntax Description

Syntax Description		
show		Show running system information
spanning-tree		Show information about stp
internal		Show internal STP information
event-history	(Optional)	Show various event logs of stp
msgs		Show various message logs of STP

Command Mode

- /exec

show spanning-tree issu-impact

show spanning-tree issu-impact

Syntax Description

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> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary>
<simulate_pvst> <prestd> [ <designated_ist_master> ] [ <designated_ist_master_priority> ] [
<designated_ist_cost> ] [ <vlan-map> ] ]
```

Syntax Description

Syntax Description	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

<i>root_port_if_index</i>	(Optional) Root Port
<i>root_port_priority</i>	(Optional) Root Port Priority
<i>root_port_number</i>	(Optional) Root Port Number
<i>topology_change</i>	(Optional) Topology Change flag is set ?
<i>topology_change_detected</i>	(Optional) Topology Change detected flag is set ?
<i>topology_change_count</i>	(Optional) Topology Change Count
<i>topology_change_time_since_last</i>	(Optional) Time since last TC
<i>tc_initiator_if_index</i>	(Optional) Topology Change initiator port
<i>max_age</i>	(Optional) Max Age
<i>hello_time</i>	(Optional) Hello Time
<i>forward_delay</i>	(Optional) Forward delay
<i>bridge_max_age</i>	(Optional) Configured Bridge Max Age
<i>bridge_hello_time</i>	(Optional) Configured Hello Time
<i>bridge_forward_delay</i>	(Optional) Configured Forward Delay
<i>hold_time</i>	(Optional) Configured Hold Time
<i>hello_timer</i>	(Optional) Hello Timer Value
<i>topology_change_timer</i>	(Optional) Topology Change Timer Value
<i>tcn_timer</i>	(Optional) TCN Timer Value
<i>aging_timer</i>	(Optional) Ageing Timer Value
<i>disabled</i>	(Optional) Number of ports Disabled
<i>blocking</i>	(Optional) Number of ports Blocking
<i>listening</i>	(Optional) Number of ports Listening
<i>learning</i>	(Optional) Number of ports Learning
<i>forwarding</i>	(Optional) Number of ports Forwarding
<i>invalid</i>	(Optional) Number of ports Invalid
<i>ist-master-id-mac</i>	(Optional) IST Master ID MAC address
<i>ist-master-prio</i>	(Optional) IST Master ID priority
<i>ist-path-cost</i>	(Optional) IST path cost
<i>remaining-hops</i>	(Optional) Remaining hops

<i>max-hops</i>	(Optional) Max Hops
<i>txholdcount</i>	(Optional) TX Hold count
<i>tree-vlan-map</i>	(Optional) Bitmap of vlans mapped to tree
TABLE_port	(Optional)
<i>if_index</i>	(Optional) Interface
<i>state</i>	(Optional) STP Port State
<i>role</i>	(Optional) STP Port Role
<i>port_priority</i>	(Optional) Port priority
<i>port_number</i>	(Optional) Port Number
<i>port_info_tree_id</i>	(Optional) Tree Id
<i>port_tree_type</i>	(Optional) Tree Type
<i>port_protocol</i>	(Optional) Tree Protocol
<i>path_cost</i>	(Optional) Cost configured on this port
<i>port_designated_root</i>	(Optional) Designated Root Mac
<i>port_designated_root_priority</i>	(Optional) Designated Root Priority
<i>designated_cost</i>	(Optional) Designated cost
<i>designated_bridge</i>	(Optional) Designated bridge mac
<i>designated_bridge_priority</i>	(Optional) Designated bridge priority
<i>designated_port</i>	(Optional) Designated Port Id
<i>tc_acknowledge</i>	(Optional) Is topology change acknowledge flag set ?
<i>forward_transition_count</i>	(Optional) Port transitions to Forwarding
<i>self_looped</i>	(Optional) Is Port self looped ?
<i>inconsistency</i>	(Optional) PVST+ Inconsistency Error Flags
<i>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>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

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

Command Mode

- /exec

show spanning-tree mst configuration digest

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

Syntax Description

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

Command Mode

- /exec

show spanning-tree mst detail

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

Syntax Description

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 [ <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> <bpdu_in> <bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter>
<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

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

<i>designated_ist_master_priority</i>	(Optional) Ist master priority
<i>designated_ist_cost</i>	(Optional) Ist master path cost
<i>vlan-map</i>	(Optional) Bitmap of vlans mapped to port
<i>oper_networkport</i>	(Optional) Is network port enabled ?
<i>pvstsim_inc_timer</i>	(Optional) PVST Simulation Inconsistency Hold Timer

Command Mode

- /exec

show spanning-tree mst interface detail

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

Syntax Description

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 }

Syntax Description

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

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

Syntax Description

Syntax Description

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

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

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

Command Mode

- /exec

show spanning-tree summary totals

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

Syntax Description

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

<i>port_fast</i>	(Optional) Port Fast configured on port
<i>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>
<eeprom_size> <blk_count> <fru_major_type> <fru_minor_type> <oem_string> <prd_num> <serial_num>
<part_num> <part_rev> <mfg_dev> <hw_rev> <mfg_bits> <eng_use> <snmp_oid> <power_consump>
<rma_code> <clei_code> <vid> } } { sup_specific_block { <blk_sig_ssb> <blk_ver_ssb> <blk_length_ssb>
<blk_checksum_ssb> <feature_bits> <hw_changes_bits> <card_index> <mac_addresses> <no_of_macs>
<no_of_epld> { TABLE_epld <epld_name> <epld_ver> } <port_type_num> <max_connector_power>
<cooling_req> <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_req> <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> } } } { wwn_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>
<multirecord_info_offset> <checksum> } } { psu_board_info_block { <format_version> <length>
<language_code> <mfg_date> <mfg_type> <mfg_info> <name_type> <product_name> <snum_type> <snum>
<part_type> <partnum> <fruid_type> <fruid> <bom_hw_pid_info> <partnum_rev> <fab_revision> <vid>
<clei_len> <clei> <eof_marker> <csum> } } { psu_product_info_block { <format_version> <length>
<language_code> <mfg_type> <mfg_info> <name_type> <product_name> <part_type> <partnum>
<product_ver_type> <sw_certification> <snum_type> <snum> <asset_type> <asset_string> <fruid_type>
<fruid> <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

Syntax Description

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

<i>i1</i>	please enter instance of module sprom
xbar	show xbar fabric sprom contents
<i>santa-cruz-range</i>	please enter the xbar number
<i>i2</i>	please enter sprom instance number
powersupply	show powersupply sprom contents
<i>i3</i>	please enter powersupply number
fan	show fan module sprom contents
<i>i4</i>	please enter fan number
sup	show supervisor sprom contents
stby-sup	show standby supervisor sprom contents
all	show all sproms contents
all2	All sprom contents
backplane2	Backplane sprom contents
module2	Linecard sprom contents
<i>module2</i>	Linecard module number
powersupply2	Powersupply sprom contents
<i>i5</i>	Powersupply module number
sup2	Supervisor sprom contents
<i>__readonly__</i>	(Optional)
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>eeeprom_size</i>	(Optional)
<i>blk_count</i>	(Optional)
<i>fru_major_type</i>	(Optional)
<i>fru_minor_type</i>	(Optional)
<i>oem_string</i>	(Optional)

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

<i>blk_length_ssb</i>	(Optional)
<i>blk_checksum_ssb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>card_index</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)
<i>no_of_epld</i>	(Optional)
TABLE_epld	(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_ssb	(Optional)
<i>sensor_num_ssb</i>	(Optional)
<i>maj_thres_ssb</i>	(Optional)
<i>min_thres_ssb</i>	(Optional)
lc_specific_block	(Optional)
<i>blk_sig_lc</i>	(Optional)
<i>blk_ver_lc</i>	(Optional)
<i>blk_length_lc</i>	(Optional)
<i>blk_checksum_lc</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_changes_bits</i>	(Optional)
<i>card_index</i>	(Optional)
<i>mac_addresses</i>	(Optional)
<i>no_of_macs</i>	(Optional)

<i>no_of_epld</i>	(Optional)
TABLE_epld	(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)
ps_specific_block	(Optional)
<i>blk_sig_psb</i>	(Optional)
<i>blk_ver_psb</i>	(Optional)
<i>blk_length_psb</i>	(Optional)
<i>blk_checksum_psb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>current_110v</i>	(Optional)
<i>current_220v</i>	(Optional)
<i>stackmib_oid</i>	(Optional)
fan_specific_block	(Optional)
<i>blk_sig_fsb</i>	(Optional)
<i>blk_ver_fsb</i>	(Optional)
<i>blk_length_fsb</i>	(Optional)
<i>blk_checksum_fsb</i>	(Optional)
<i>feature_bits</i>	(Optional)
<i>hw_change_bits</i>	(Optional)
<i>stackmib_oid</i>	(Optional)

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

<i>clei</i>	(Optional)
<i>eof_marker</i>	(Optional)
<i>csum</i>	(Optional)
<i>psu_product_info_block</i>	(Optional)
<i>format_version</i>	(Optional)
<i>length</i>	(Optional)
<i>language_code</i>	(Optional)
<i>mfg_type</i>	(Optional)
<i>mfg_info</i>	(Optional)
<i>name_type</i>	(Optional)
<i>product_name</i>	(Optional)
<i>part_type</i>	(Optional)
<i>partnum</i>	(Optional)
<i>product_ver_type</i>	(Optional)
<i>sw_certification</i>	(Optional)
<i>snum_type</i>	(Optional)
<i>snum</i>	(Optional)
<i>asset_type</i>	(Optional)
<i>asset_string</i>	(Optional)
<i>fruid_type</i>	(Optional)
<i>fruid</i>	(Optional)
<i>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 ssh key

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

Syntax Description

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
__readonly__	(Optional)	
TABLE_sessions	(Optional)	ssh key
key_type	(Optional)	keys type
key_time	(Optional)	timestamp
key_data	(Optional)	ssh key data
key_bitcount	(Optional)	bitcount
key_fingerprint	(Optional)	fingerprint

Command Mode

- /exec

show ssh server

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

Syntax Description

Syntax Description

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

Command Mode

- /exec

show startup-config

show startup-config

Syntax Description

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

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

Command Mode

- /exec

show startup-config aclmgr

```
show startup-config aclmgr [ all ]
```

Syntax Description

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

Command Mode

- /exec

show startup-config adjmgr

show startup-config adjmgr [all]

Syntax Description

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

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

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

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

Command Mode

- /exec

show startup-config bgp

show startup-config bgp [all]

Syntax Description

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

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

Command Mode

- /exec

show startup-config callhome

show startup-config callhome

Syntax Description

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

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

Command Mode

- /exec

show startup-config cert-enroll

show startup-config cert-enroll

Syntax Description

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

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

Command Mode

- /exec

show startup-config config-profile

```
show startup-config config-profile [ <all_conf_profile_name> ]
```

Syntax Description

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

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 cts

show startup-config cts

Syntax Description

Syntax Description		
show		Show running system information
startup-config		show startup system information
cts		Show CTS information

Command Mode

- /exec

show startup-config diagnostic

```
show startup-config diagnostic [ all ]
```

Syntax Description

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

Command Mode

- /exec

show startup-config dot1x

show startup-config dot1x

Syntax Description

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

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

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

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 [all]

Syntax Description

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

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

Command Mode

- /exec

show startup-config expand-port-profile

show startup-config expand-port-profile

Syntax Description

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

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 icmpv6

show startup-config icmpv6 [all]

Syntax Description

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

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

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

Command Mode

- /exec

show startup-config interface

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

Syntax Description

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 interface

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

Syntax Description

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 ip

show startup-config ip [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ipqos

show startup-config ipqos [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ipv6

```
show startup-config ipv6 [ all ]
```

Syntax Description

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

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

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

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

Command Mode

- /exec

show startup-config license

```
show startup-config license [ all ]
```

Syntax Description

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

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

Command Mode

- /exec

show startup-config lldp

```
show startup-config lldp [ all ]
```

Syntax Description

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

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 mmode

```
show startup-config mmode [ all ]
```

Syntax Description

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

Command Mode

- /exec

show startup-config monitor

show startup-config monitor

Syntax Description

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

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 [ all ]
```

Syntax Description

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

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 [all]

Syntax Description

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

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

Command Mode

- /exec

show startup-config nat

show startup-config nat [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ngoam

show startup-config ngoam

Syntax Description

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

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 openflow

show startup-config openflow [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ospf

show startup-config ospf [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ospfv3

```
show startup-config ospfv3 [ all ]
```

Syntax Description

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

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

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

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

Command Mode

- /exec

show startup-config pim

show startup-config pim [all]

Syntax Description

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

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 [ <all_profile_name> ]
```

Syntax Description

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

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

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

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

Command Mode

- /exec

show startup-config rip

show startup-config rip [all]

Syntax Description

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

Command Mode

- /exec

show startup-config rpm

show startup-config rpm [all]

Syntax Description

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

Syntax Description

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

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

Syntax Description

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

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 [ all ]
```

Syntax Description

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

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 +

Syntax Description

Syntax	Description
show	show startup-cfg
startup-config	show startup system information

Command Mode

- /exec

show startup-config track

show startup-config track

Syntax Description

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 udd

show startup-config udd

Syntax Description

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

Command Mode

- /exec

show startup-config vdc-all

show startup-config vdc-all

Syntax Description

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

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

Command Mode

- /exec

show startup-config virtual-service

show startup-config virtual-service

Syntax Description

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

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

Command Mode

- /exec

show startup-config vlan

show startup-config vlan

Syntax Description

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

Command Mode

- /exec

show startup-config vpc

show startup-config vpc [all]

Syntax Description

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

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

Command Mode

- /exec

show startup-config vrf default

```
show startup-config vrf default [ all ]
```

Syntax Description

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

Command Mode

- /exec

show startup-config vshd

show startup-config vshd

Syntax Description

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

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

Syntax Description

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

Command Mode

- /exec

show switch-profile

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

Syntax Description

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

Command Mode

- /exec

show switch-profile

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

Syntax Description

Syntax Description	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)

merge_flags (Optional)

remote_status (Optional)

remote_error (Optional)

Command Mode

- /exec

show switch-profile buffer

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

Syntax Description

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

Command Mode

- /exec

show switch-profile peer

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

Syntax Description

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

Command Mode

- /exec

show switch-profile status

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

Syntax Description

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

Command Mode

- /exec

show switch-scope controller l2-vxlan

show switch-scope controller l2-vxlan

Syntax Description

Syntax Description	show	Show running system information
	switch-scope	switch-scope
	controller	Controller command
	l2-vxlan	l2-vxlan

Command Mode

- /exec

show switching-mode

show switching-mode [*__readonly__* *TABLE_switching_mode* <switching-mode-desc>]

Syntax Description

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

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
fabric-speed		Show the fabric speed

Command Mode

- /exec

show system auto-collect tech-support

show system auto-collect tech-support

Syntax Description

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 clis event-history

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

Syntax Description

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 [ __readonly__ { <content> } ]
```

Syntax Description

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

Command Mode

- /exec

show system error-id

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

Syntax Description

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

Command Mode

- /exec

show system exception-info

show system exception-info

Syntax Description

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 [*__readonly__* *TABLE_system_fabric_mode* <system-fabric-mode-desc>]

Syntax Description

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

Command Mode

- /exec

show system inband queuing statistics

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

Syntax Description

Syntax Description

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

<i>sndbuf</i>	(Optional) BPDU Send Buffer
<i>pmnodrop</i>	(Optional) BPDU No drop
TABLE_q_stats	(Optional) Queue Statistics
<i>indexstat</i>	(Optional) Queue Index
<i>ipmrecvpkts</i>	(Optional) Queue receive packets
<i>ipmdroppkts</i>	(Optional) Queue drop packets
<i>ipmcongested</i>	(Optional) Queue Congested
<i>ircvbuf</i>	(Optional) Queue receive buffer
<i>isndbuf</i>	(Optional) Queue send buffer
<i>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

Syntax Description	Description
show	Show running system information
system	System-related show commands
inband	Inband Commands
queuing	Inband Queuing commands
status	Selective Packet Discard Information
<i>__readonly__</i>	(Optional)
<i>TABLE_sys_inband_queue_status</i>	(Optional) System Inband Status
<i>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

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

Command Mode

- /exec

show system memory-thresholds

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

Syntax Description

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

Command Mode

- /exec

show system mode

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

Syntax Description

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

Command Mode

- /exec

show system nve infra-vlans

```
show system nve infra-vlans [ __readonly__ <output> ]
```

Syntax Description

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

Syntax Description	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 [ __readonly__ { [ TABLE_ha_status <vdc_id> <this_sup_internal_state>
<other_sup_internal_state> ] } ]
```

Syntax Description

Syntax Description	Description
show	Show running system information
system	System-related show commands
redundancy	redundancy status
ha	vdc redundancy status
status	all vdc redundancy status
<i>__readonly__</i>	(Optional)
<i>TABLE_ha_status</i>	(Optional) HA status for all vdc's
<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

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

Command Mode

- /exec

show system reset-reason

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

Syntax Description

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

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

Command Mode

- /exec

show system reset-reason module

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

Syntax Description

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

Command Mode

- /exec

show system resources

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

Syntax Description

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

Command Mode

- /exec

show system resources

show system resources <i0>

Syntax Description

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 module

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

Syntax Description

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

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 [*__readonly__* *TABLE_system_routing_mode* <system-routing-mode-desc>]

Syntax Description

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

Command Mode

- /exec

show system srg

show system srg

Syntax Description

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 [ __readonly__ { <content> } ]
```

Syntax Description

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)	
content	(Optional) Displays system standby manual boot option	

Command Mode

- /exec

show system switch-mode

show system switch-mode [*__readonly__* <*op_mode*>]

Syntax Description

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

Command Mode

- /exec

show system switchover impact

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

Syntax Description

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

Syntax Description

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

Command Mode

- /exec

show system verify bios flash

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

Syntax Description

Syntax Description	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

Syntax Description	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