



## T Show Commands

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# show table-map

**show table-map** [*tmap-name*|*default-tmap-enum-name*] [**\_\_readonly\_\_**] [**TABLE\_tmap** *tmap-name* [*desc*] [*def-value*] [*def-copy*] [*def-ignore*] [**TABLE\_list** *frm-list to-val*]]]

## Syntax Description

<b>show</b>	Show running system information
<b>table-map</b>	Table maps <i>Not available in this release.</i>
<b>TABLE_tmap</b>	all tmap xml sessions
<i>tmap-name</i>	Type: string length: 40 Show a particular table map

---

*default-tmap-enum-name*

**cir-markdown-map value: 1**

Exceed color markdown map

**pir-markdown-map value: 2**

Violate color markdown map

**cos-dscp-map value: 3**

Cos to DSCP Mutation map

**cos-precedence-map value: 4**

Cos to IP Precedence Mutation map

**cos-discard-class-map value: 5**

Cos to Discard-class Mutation map

**dscp-cos-map value: 6**

DSCP to Cos Mutation map

**dscp-precedence-map value: 7**

DSCP to IP Precedence Mutation map

**dscp-discard-class-map value: 8**

DSCP to Discard-class Mutation map

**precedence-cos-map value: 9**

IP Precedence to Cos Mutation map

**precedence-dscp-map value: 10**

IP Precedence to DSCP Mutation map

**precedence-discard-class-map value: 11**

IP Precedence to Discard-class Mutation map

**discard-class-cos-map value: 12**

Discard class to Cos Mutation map

**discard-class-dscp-map value: 13**

Discard class to DSCP Mutation map

**discard-class-precedence-map value: 14**

Discard class to IP Precedence Mutation map

**exp-cos-map value: 15**

exp to cos map

---

\_\_readonly\_\_

---

<i>desc</i>	Type: string length: 200 Description string
<i>def-value</i>	Type: uinteger min: 0 max: 63 Unspecified entries will default to this value
<i>def-copy</i>	Type: uinteger min: 0 max: 1 Map unspecified values to equivalent output value
<i>def-ignore</i>	Type: uinteger min: 0 max: 1 Ignore unspecified values
<b>TABLE_list</b>	table map lists
<i>frm-list</i>	Type: integer-mrange Original list of values which are to be mapped
<i>to-val</i>	Type: uinteger min: 0 max: 63 To value

**Command Modes**

- /exec



## show tacacs-server (tacacs\_dynamic\_tree)

```
show tacacs-server host0 [__readonly__ host1 tacacs_port shared_key idle_time test_username test_password]
```

### Syntax Description

<b>show</b>	Show running system information
<b>tacacs-server</b>	Show TACACS+ configuration information
<i>host0</i>	Type: string DNS name or IP address
<i>__readonly__</i>	
<i>host1</i>	Type: string DNS name or IP address
<i>tacacs_port</i>	Type: integer TACACS+ server port
<i>shared_key</i>	Type: string TACACS+ shared secret
<i>test_username</i>	Type: string User name in test packets
<i>test_password</i>	Type: string User password in test packets
<i>idle_time</i>	Type: integer Time interval for monitoring the server

### Command Modes

- /exec

## show tacacs-server (tacacs\_dynamic\_tree)

show tacacs-server [*\_\_readonly\_\_* *host0 tacacs\_port shared\_key idle\_time test\_username test\_password*+]

### Syntax Description

<b>show</b>	Show running system information
<b>tacacs-server</b>	Show TACACS+ configuration information
<b><i>__readonly__</i></b>	
<i>host0</i>	Type: string DNS name or IP address
<i>tacacs_port</i>	Type: integer TACACS+ server port
<i>shared_key</i>	Type: string TACACS+ shared secret
<i>test_username</i>	Type: string User name in test packets
<i>test_password</i>	Type: string User password in test packets
<i>idle_time</i>	Type: integer Time interval for monitoring the server

### Command Modes

- /exec

# show tacacs-server directed-request

show tacacs-server directed-request [\_\_readonly\_\_ *tacacs\_directedRequest\_status*]

## Syntax Description

<b>show</b>	Show running system information
<b>tacacs-server</b>	Show TACACS+ configuration information
<b>directed-request</b>	Show directed server enable configuration
<u>__readonly__</u>	
<i>tacacs_directedRequest_status</i>	status of tacacs-server directed request
	<b>disabled value: 0</b>
	<b>enabled value: 1</b>

## Command Modes

- /exec

# show tacacs-server groups

```
show tacacs-server groups [ s0 ] [ __readonly__ [ num_of_groups ] [TABLE_group group_name
[TABLE_server server_ip [ port ]] [ dead_time ] [ vrf_name ] [ source_interface ]]]
```

## Syntax Description

<b>show</b>	Show running system information
<b>tacacs-server</b>	Show TACACS+ configuration information
<b>groups</b>	Show TACACS+ server group configuration information
<i>s0</i>	Type: string length: 127 TACACS+ server group name
<b>__readonly__</b>	
<i>num_of_groups</i>	Type: integer number of groups
<b>TABLE_group</b>	
<i>group_name</i>	Type: string name of the group
<b>TABLE_server</b>	
<i>server_ip</i>	Type: string DNS name or IP address
<i>port</i>	Type: integer TACACS+ server port
<i>dead_time</i>	Type: integer Time interval for which the server is marked as dead before sending a test command
<i>vrf_name</i>	Type: vrf name of the vrf
<i>source_interface</i>	Type: string Interface Description

**Command Modes**

- /exec

# show tacacs-server sorted

```
show tacacs-server sorted [ __readonly__ [ global_secretKey ] global_timeout global_deadtime
[ global_source_intf ] [ global_idle_time ] [ global_testUsername ] [ global_testPassword ] server_count
[ TABLE_server server_ip port [ secretKey ] [ timeout ] ] ]
```

## Syntax Description

<b>show</b>	Show running system information
<b>tacacs-server</b>	Show TACACS+ configuration information
<b>sorted</b>	Show TACACS+ servers sorted by server name
<b>__readonly__</b>	
<i>global_secretKey</i>	Type: string Global shared secret
<i>global_timeout</i>	Type: integer Global timeout for tacacs
<i>global_deadtime</i>	Type: integer Global deadtime
<i>global_source_intf</i>	Type: string Tacacs global source interface
<i>global_idle_time</i>	Type: integer Tacacs global idle-time for server monitoring
<i>global_testUsername</i>	Type: string Username of global test parameters
<i>global_testPassword</i>	Type: string Password of global test parameters
<i>server_count</i>	Type: integer Total number of tacacs servers configured
<b>TABLE_server</b>	
<i>server_ip</i>	Type: string Ip address of the server
<i>port</i>	Type: integer Port used for this server

---

<i>secretKey</i>	Type: string Shared secret between the server and the tacacs client
<i>timeout</i>	Type: integer Timeout for this tacacs server

---

**Command Modes**

- /exec

## show tacacs-server statistics

```
show tacacs-server statistics host0 [__readonly__ server_state [clock_time monitoring_statistics
time_in_pstate ndead tt_in_dstate] auth_statistics auth_failed_transactions auth_succ_transactions
auth_req_sent auth_req_timedout auth_resp_no_match auth_resp_not_processed auth_resp_error
autho_statistics autho_failed_transactions autho_succ_transactions autho_req_sent autho_req_timedout
autho_resp_no_match autho_resp_not_processed autho_resp_error acct_statistics acct_failed_transactions
acct_succ_transactions acct_req_sent acct_req_timedout acct_resp_no_match acct_resp_not_processed
acct_resp_error]
```

### Syntax Description

<b>show</b>	Show running system information
<b>tacacs-server</b>	Show TACACS+ configuration information
<b>statistics</b>	Show TACACS statistics
<i>host0</i>	Type: string DNS name or IP address
<b>__readonly__</b>	
<i>server_state</i>	Show state of server <b>alive value: 2</b> <b>dead value: 1</b> <b>not monitored value: 3</b>
<i>clock_time</i>	Type: string Show clock time in terms of hours, minutes and seconds
<b>monitoring_statistics</b>	Monitoring Statistics
<i>time_in_pstate</i>	Type: string Time in previous state
<i>ndead</i>	Type: uinteger Number of times dead
<i>tt_in_dstate</i>	Type: string Total time in dead state
<b>auth_statistics</b>	Authentication Statistics
<b>autho_statistics</b>	Authorization Statistics



<b>acct_statistics</b>	Accounting Statistics
<i>auth_failed_transactions</i>	Type: uinteger Authentication: Failed transactions
<i>auth_succ_transactions</i>	Type: uinteger Authentication: Successful transactions
<i>auth_req_sent</i>	Type: uinteger Authentication: Requests sent
<i>auth_req_timedout</i>	Type: uinteger Authentication: Requests timedout
<i>auth_resp_no_match</i>	Type: uinteger Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>	Type: uinteger Authentication: Responses not processed
<i>auth_resp_error</i>	Type: uinteger Authentication: Responses containing errors
<i>autho_failed_transactions</i>	Type: uinteger Authorization: Failed transactions
<i>autho_succ_transactions</i>	Type: uinteger Authorization: Successful transactions
<i>autho_req_sent</i>	Type: uinteger Authorization: Requests sent
<i>autho_req_timedout</i>	Type: uinteger Authorization: Requests timedout
<i>autho_resp_no_match</i>	Type: uinteger Authorization: Responses with no matching requests
<i>autho_resp_not_processed</i>	Type: uinteger Authorization: Responses not processed
<i>autho_resp_error</i>	Type: uinteger Authorization: Responses containing errors

---

<i>acct_failed_transactions</i>	Type: uinteger Accounting: Failed transactions
<i>acct_succ_transactions</i>	Type: uinteger Accounting: Successful transactions
<i>acct_req_sent</i>	Type: uinteger Accounting: Requests sent
<i>acct_req_timedout</i>	Type: uinteger Accounting: Requests timedout
<i>acct_resp_no_match</i>	Type: uinteger Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	Type: uinteger Accounting: Responses not processed
<i>acct_resp_error</i>	Type: uinteger Accounting: Responses containing errors

---

**Command Modes**

- /exec

# show tech-support

show tech-support [time-optimized] [forced]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>time-optimized</b>	Gather tech-support faster, requires more memory & disk space
<b>forced</b>	Do not check for standby being present

## Command Modes

- /exec

# show tech-support aaa

show tech-support aaa

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for troubleshooting
<b>aaa</b>	Display aaa information

## Command Modes

- /exec

# show tech-support aclmgr

show tech-support aclmgr [detail]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>aclmgr</b>	ACL commands
<b>detail</b>	Detailed Tech Support

## Command Modes

- /exec

# show tech-support aclqos

show tech-support aclqos

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>aclqos</b>	Show information for aclqos technical support

## Command Modes

- /exec

# show tech-support aclqos compressed

show tech-support aclqos compressed *uri0*

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>aclqos</b>	Show information for aclqos technical support
<b>compressed</b>	Save compressed aclqos technical support
<i>uri0</i>	Type: uri Enter filename to store

## Command Modes

- /exec

# show tech-support adjmgr

show tech-support adjmgr [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>adjmgr</b>	Display Adjmgr information
<b>brief</b>	Brief information

## Command Modes

- /exec



# show tech-support all-binary

show tech-support all-binary

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>all-binary</b>	Dump tech support for all applications in binary

## Command Modes

- /exec

# show tech-support all

show tech-support all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>all</b>	Gather detailed information for troubleshooting

## Command Modes

- /exec

# show tech-support all binary

show tech-support all binary *uri0*

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>all</b>	Gather detailed information for troubleshooting
<b>binary</b>	Gather tech support for all applications in binary format
<i>uri0</i>	Type: uri Select destination filesystem to save the binary output (NOTE: The output file name will be automatically generated and cannot be chosen)

## Command Modes

- /exec

# show tech-support arp

show tech-support arp [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>arp</b>	Display ARP information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ascii-cfg

show tech-support ascii-cfg

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Show information for technical support personnel
<b>ascii-cfg</b>	Show ascii-cfg information for technical support personnel

## Command Modes

- /exec

# show tech-support bfd

show tech-support bfd

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>bfd</b>	BFD commands

## Command Modes

- /exec

# show tech-support bgp

show tech-support bgp [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>bgp</b>	Display BGP status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support biosd

show tech-support biosd

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>biosd</b>	Gather bios install log for trouble shooting

## Command Modes

- /exec



# show tech-support bloggerd-all

show tech-support bloggerd-all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>bloggerd-all</b>	Gather detailed information for bloggerd troubleshooting from ALL modules

## Command Modes

- /exec

# show tech-support bloggerd

show tech-support bloggerd

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>bloggerd</b>	Gather detailed information for bloggerd troubleshooting

## Command Modes

- /exec

# show tech-support bootvar

show tech-support bootvar

Syntax	Description
<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>bootvar</b>	Gather detailed information for bootvar troubleshooting

## Command Modes

- /exec

# show tech-support brief

show tech-support brief

## Syntax Description

<b>show</b>	Show running system summary information
<b>tech-support</b>	Gather information for troubleshooting
<b>brief</b>	Gather summary information for troubleshooting

## Command Modes

- /exec

# show tech-support callhome

show tech-support callhome

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for troubleshooting
<b>callhome</b>	callhome troubleshooting information

## Command Modes

- /exec

# show tech-support cdp

show tech-support cdp

## Syntax Description

<b>show</b>	show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>cdp</b>	Gather information for CDP trouble shooting

## Command Modes

- /exec

# show tech-support cert-enroll

show tech-support cert-enroll

## Syntax Description

<b>show</b>	show commands
<b>tech-support</b>	Gather information for troubleshooting
<b>cert-enroll</b>	Display certificates information

## Command Modes

- /exec

# show tech-support cfs

show tech-support cfs [**commands**] **name** *cfs-dyn-app-name* [**commands1**]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>cfs</b>	Gather detailed information for cfs troubleshooting
<b>commands</b>	CFS show tech commands
<b>name</b>	Gather detailed information of cfs for a specified application
<i>cfs-dyn-app-name</i>	Type: string length: 60 Registered name of the local application
<b>commands1</b>	CFS application show tech commands

## Command Modes

- /exec



# show tech-support cli

show tech-support cli

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>cli</b>	Gather information for parser troubleshooting

## Command Modes

- /exec

# show tech-support clis

show tech-support clis [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>clis</b>	Gather information for CLI Server troubleshooting
<b>brief</b>	Detailed information

## Command Modes

- /exec

# show tech-support clock\_manager

show tech-support clock\_manager

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>clock_manager</b>	Gather detailed information for clock manager troubleshooting

## Command Modes

- /exec

# show tech-support commands

show tech-support commands

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>commands</b>	Show commands executed as part of show tech-support commands

## Command Modes

- /exec

# show tech-support copp

show tech-support copp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>copp</b>	Gather information for copp trouble shooting

## Command Modes

- /exec

# show tech-support details

show tech-support details [space-optimized]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>details</b>	Gather detailed information for troubleshooting
<b>space-optimized</b>	Gather tech-support info. using less memory & disk space

## Command Modes

- /exec

# show tech-support dhcp

show tech-support dhcp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>dhcp</b>	Gather detailed information for dhcp troubleshooting

## Command Modes

- /exec

# show tech-support eem

show tech-support eem

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>eem</b>	Show EEM tech-support information

## Command Modes

- /exec



# show tech-support eigrp

show tech-support eigrp [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>eigrp</b>	Display EIGRP status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support eltm

show tech-support eltm [detail]

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for trouble-shooting
<b>eltm</b>	eltm debug info
<b>detail</b>	Detailed information

## Command Modes

- /exec

# show tech-support ethpm

show tech-support ethpm

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ethpm</b>	Gather detailed information for ETHPM troubleshooting

## Command Modes

- /exec

# show tech-support fabricpath topology

show tech-support fabricpath topology [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>fabricpath</b>	Gather detailed information for Fabricpath troubleshooting
<b>topology</b>	Gather detailed information for Topology troubleshooting
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support fips

show tech-support fips

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>fips</b>	show tech support information for security <i>Not available in this release.</i>

## Command Modes

- /exec

# show tech-support forwarding l2 unicast

show tech-support forwarding l2 unicast [*module module*]

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for trouble-shooting
<b>forwarding</b>	Forwarding debug info
<b>l2</b>	layer 2 debug info
<b>unicast</b>	unicast
<b>module</b>	Slot number
<i>module</i>	Type: integer min: 1 max: 16 Module Number

## Command Modes

- /exec

# show tech-support forwarding l3 unicast

show tech-support forwarding l3 unicast [**module** *module*]

## Syntax Description

<b>show</b>	
<b>tech-support</b>	tech-support information
<b>forwarding</b>	forwarding debug information
<b>l3</b>	layer 3 debug information
<b>unicast</b>	unicast
<b>module</b>	module
<i>module</i>	Type: integer module number

## Command Modes

- /exec

# show tech-support forwarding l3 unicast detail

show tech-support forwarding l3 unicast detail [**module** *module*]

## Syntax Description

<b>show</b>	
<b>tech-support</b>	tech-support information
<b>forwarding</b>	forwarding debug information
<b>l3</b>	layer 3 debug information
<b>unicast</b>	unicast
<b>detail</b>	detailed show tech including platform commands
<b>module</b>	module
<i>module</i>	Type: integer module number

## Command Modes

- /exec



# show tech-support forwarding l3 unicast detail vdc-all

show tech-support forwarding l3 unicast detail vdc-all [*module module*]

## Syntax Description

<b>show</b>	
<b>tech-support</b>	tech-support information
<b>forwarding</b>	forwarding debug information
<b>l3</b>	layer 3 debug information
<b>unicast</b>	unicast
<b>detail</b>	detailed show tech including platform commands
<b>vdc-all</b>	vdc-all
<b>module</b>	module
<i>module</i>	Type: integer module number

## Command Modes

- /exec

# show tech-support forwarding l3 unicast vdc-all

show tech-support forwarding l3 unicast vdc-all [*module module*]

## Syntax Description

<b>show</b>	
<b>tech-support</b>	tech-support information
<b>forwarding</b>	forwarding debug information
<b>l3</b>	layer 3 debug information
<b>unicast</b>	unicast
<b>vdc-all</b>	vdc-all
<b>module</b>	module
<i>module</i>	Type: integer module number

## Command Modes

- /exec

# show tech-support forwarding multicast

show tech-support forwarding multicast

## Syntax Description

<b>show</b>	
<b>tech-support</b>	tech-support information
<b>forwarding</b>	forwarding debug information
<b>multicast</b>	multicast

## Command Modes

- /exec

# show tech-support glbp

show tech-support glbp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>glbp</b>	Show glbp tech-support information

## Command Modes

- /exec

# show tech-support glbp brief

show tech-support glbp brief

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>glbp</b>	Show glbp tech-support information
<b>brief</b>	Show glbp tech-support information in brief

## Command Modes

- /exec

# show tech-support gold

show tech-support gold

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>gold</b>	Show gold tech-support information

## Command Modes

- /exec

# show tech-support gpixm

show tech-support gpixm

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>gpixm</b>	Gather detailed information for GLOBAL-PIXM troubleshooting

## Command Modes

- /exec

# show tech-support ha

show tech-support ha [commands]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ha</b>	Gather detailed information for HA troubleshooting
<b>commands</b>	Show commands executed as part of show tech-support ha commands

## Command Modes

- /exec



# show tech-support ha standby

show tech-support ha standby [commands]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ha</b>	Gather detailed information for HA troubleshooting
<b>standby</b>	Gather detailed information for HA troubleshooting from standby supervisor
<b>commands</b>	Show commands executed as part of show tech-support ha commands

## Command Modes

- /exec

# show tech-support hsrp

show tech-support hsrp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>hsrp</b>	Show hsrp tech-support information

## Command Modes

- /exec

# show tech-support hsrp brief

show tech-support hsrp brief

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>hsrp</b>	Show hsrp tech-support information
<b>brief</b>	Show tech-support information in brief

## Command Modes

- /exec

# show tech-support icmpv6

show tech-support icmpv6 [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>icmpv6</b>	Display Icmpv6 information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support im

show tech-support im

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>im</b>	Gather detailed information for IM troubleshooting

## Command Modes

- /exec

# show tech-support inband counters

show tech-support inband counters

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>inband</b>	Gather all information about inband data path
<b>counters</b>	Gather all counters in inband data path

## Command Modes

- /exec

# show tech-support include-time

show tech-support include-time

Syntax	Description
<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>include-time</b>	Gather tech-support and capture time taken to execute each command

## Command Modes

- /exec

# show tech-support interface-vlan

show tech-support interface-vlan

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>interface-vlan</b>	Gather detailed information for interface-vlan troubleshooting

## Command Modes

- /exec



# show tech-support ip

show tech-support ip [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ip</b>	Display IP information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ip igmp

show tech-support ip igmp [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ip</b>	Display IP information
<b>igmp</b>	Display IGMP status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ip igmp snooping

show tech-support ip igmp snooping [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ip</b>	Display IP information
<b>igmp</b>	Display IGMP status and configuration
<b>snooping</b>	IGMP Snooping information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ip msdp

show tech-support ip msdp [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ip</b>	Display IP information
<b>msdp</b>	Display MSDP status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ip pim

show tech-support ip pim [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ip</b>	Display IP information
<b>pim</b>	PIM global configuration commands
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ip rsvp

show tech-support ip rsvp [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ip</b>	Configure IP features
<b>rsvp</b>	RSVP configuration commands
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ipqos

show tech-support ipqos [server-only] [all] [snmp]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ipqos</b>	IP QoS Manager
<b>server-only</b>	Dump the tech-support information only from IP QoS Manager server only
<b>all</b>	Dump the tech-support information IP QoS Manager plus brief summary of system
<b>snmp</b>	Dump the tech-support information only from IP QoS Manager server only (SNMP only)

## Command Modes

- /exec

# show tech-support ipv6

show tech-support ipv6 [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ipv6</b>	Display IPV6 information
<b>brief</b>	Brief information

## Command Modes

- /exec



# show tech-support ipv6 pim

show tech-support ipv6 pim [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ipv6</b>	Display IPv6 information
<b>pim</b>	PIM6 global configuration commands
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support isis

show tech-support isis [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>isis</b>	IS-IS events
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support issu

show tech-support issu [commands]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>issu</b>	Gather detailed information for issu troubleshooting
<b>commands</b>	Show commands executed as part of show tech-support issu command

## Command Modes

- /exec

# show tech-support l2

show tech-support l2

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>l2</b>	Gather detailed information for layer 2 troubleshooting

## Command Modes

- /exec

# show tech-support l2fm

show tech-support l2fm

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for trouble-shooting
<b>l2fm</b>	l2fm debug info

## Command Modes

- /exec

# show tech-support l2fm clients

show tech-support l2fm clients [*module module*]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>l2fm</b>	l2fm debug info
<b>clients</b>	debug info of l2fm clients only running on linecard(mtm)
<b>module</b>	Slot number
<i>module</i>	Type: integer Module Number

## Command Modes

- /exec

# show tech-support l2fm detail

show tech-support l2fm detail [*module module*]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>l2fm</b>	l2fm debug info
<b>detail</b>	All info related to l2fm
<b>module</b>	Slot number
<i>module</i>	Type: integer Module Number

## Command Modes

- /exec

## show tech-support l2fm l2dbg (syscli)

show tech-support l2fm l2dbg [**module** *module*]

### Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for trouble-shooting
<b>l2fm</b>	l2fm debug info
<b>l2dbg</b>	tech support capturing additional debug info for l2fm(l2dbg)
<b>module</b>	Slot number
<i>module</i>	Type: integer Module Number

### Command Modes

- /exec



# show tech-support l2fm l2dbg (syscli)

show tech-support l2fm l2dbg [*module module*]

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for trouble-shooting
<b>l2fm</b>	l2fm debug info
<b>l2dbg</b>	tech support capturing additional debug info for l2fm(l2dbg)
<b>module</b>	Slot number <i>Available only in the 9500 series.</i>
<i>module</i>	Type: integer Module Number

## Command Modes

- /exec

# show tech-support l2pt

show tech-support l2pt [detail]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>l2pt</b>	Gather information for l2pt troubleshooting
<b>detail</b>	Show more details

## Command Modes

- /exec

# show tech-support l3vm

show tech-support l3vm [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>l3vm</b>	Display VRF information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support l3vpn

show tech-support l3vpn [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>l3vpn</b>	BGP l3vpn information <i>Not available in this release.</i>
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support lacp

show tech-support lacp [all]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>lacp</b>	Gather detailed information for LACP component
<b>all</b>	Gather detailed information of LACP and related components

## Command Modes

- /exec

# show tech-support ldap

show tech-support ldap

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for troubleshooting
<b>ldap</b>	Display ldap information

## Command Modes

- /exec

# show tech-support license

show tech-support license

## Syntax Description

<b>show</b>	show commands
<b>tech-support</b>	Gather information for troubleshooting
<b>license</b>	Display licensing information

## Command Modes

- /exec

# show tech-support lldp

show tech-support lldp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>lldp</b>	Gather detailed information for LLDP troubleshooting

## Command Modes

- /exec



# show tech-support logging

show tech-support logging

Syntax	Description
<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>logging</b>	Show information on logging for technical support staff

**Command Modes**

- /exec

# show tech-support mfwd

show tech-support mfwd [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>mfwd</b>	Display MCASTFWD status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support module

show tech-support module *module*

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>module</b>	Gather info related to a module
<i>module</i>	Type: integer Enter module number

## Command Modes

- /exec

# show tech-support module all

show tech-support module all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>module</b>	Gather info related to a module
<b>all</b>	Gather info related to all modules in the system

## Command Modes

- /exec

# show tech-support monitor

show tech-support monitor

Syntax	Description
<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>monitor</b>	Gather detailed information for monitor troubleshooting

## Command Modes

- /exec

# show tech-support monitor erspan

show tech-support monitor erspan

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>monitor</b>	Gather detailed information for monitor troubleshooting
<b>erspan</b>	Gather detailed information for erspan session troubleshooting

## Command Modes

- /exec

# show tech-support monitorc-all

show tech-support monitorc-all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>monitorc-all</b>	Gather detailed information for LC MONITORC troubleshooting

## Command Modes

- /exec

# show tech-support multicast

show tech-support [ip| ipv4] multicast

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ip</b>	Display IP information
<b>ipv4</b>	Display IP information
<b>multicast</b>	Display V4 Multicast information

## Command Modes

- /exec



# show tech-support mvpn

show tech-support mvpn [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>mvpn</b>	Display Multicast VPN information <i>Not available in this release.</i>
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support netstack

show tech-support netstack

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>netstack</b>	Gather information for NETSTACK troubleshooting

## Command Modes

- /exec

# show tech-support netstack detail

show tech-support netstack detail

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>netstack</b>	Gather information for NETSTACK troubleshooting
<b>detail</b>	Gather detailed information for NETSTACK troubleshooting

## Command Modes

- /exec

# show tech-support npacl

show tech-support npacl [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>npacl</b>	Display npacl information
<b>brief</b>	Brief npacl information

## Command Modes

- /exec

# show tech-support ntp

show tech-support ntp

## Syntax Description

<b>show</b>	show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>ntp</b>	Gather information for NTP trouble shooting

## Command Modes

- /exec

# show tech-support nve

show tech-support nve

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>nve</b>	Display NVE information

## Command Modes

- /exec

# show tech-support oim

show tech-support oim [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>oim</b>	Display OIM information
<b>brief</b>	Brief OIM information

## Command Modes

- /exec

# show tech-support onep

show tech-support onep

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Diagnostic information for technical support
<b>onep</b>	One Platform

## Command Modes

- /exec



# show tech-support ospf

show tech-support ospf [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ospf</b>	Display OSPF status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support ospfv3

show tech-support ospfv3 [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>ospfv3</b>	Display OSPFv3 status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support page

show tech-support page [time-optimized] [forced]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>page</b>	Page through the output
<b>time-optimized</b>	Gather tech-support faster, requires more memory & disk space
<b>forced</b>	Do not check for standby being present

## Command Modes

- /exec

# show tech-support patch

show tech-support patch

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>patch</b>	Gather detailed information for patch troubleshooting

## Command Modes

- /exec

# show tech-support pfstat

show tech-support pfstat

Syntax	Description
<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>pfstat</b>	Gather detailed information for pfstat troubleshooting

## Command Modes

- /exec

# show tech-support pixm-all

show tech-support pixm-all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>pixm-all</b>	Gather detailed information for PIXM troubleshooting

## Command Modes

- /exec

# show tech-support pixm

show tech-support pixm

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>pixm</b>	Gather detailed information for vdc-local-PIXM troubleshooting

## Command Modes

- /exec

# show tech-support pixmc-all

show tech-support pixmc-all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>pixmc-all</b>	Gather detailed information for LC PIXMC troubleshooting

## Command Modes

- /exec



# show tech-support pktmgr

show tech-support pktmgr [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>pktmgr</b>	Display Packet Manager information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support platform

show tech-support platform

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>platform</b>	Get platform related information

## Command Modes

- /exec

# show tech-support pltfm-config

show tech-support pltfm-config

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>pltfm-config</b>	Gather detailed information for pltfm-config troubleshooting

## Command Modes

- /exec

# show tech-support port-channel

show tech-support port-channel

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>port-channel</b>	Gather detailed information for port channel troubleshooting

## Command Modes

- /exec

# show tech-support port-client-all

show tech-support port-client-all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>port-client-all</b>	Gather detailed information for LC port client troubleshooting

## Command Modes

- /exec

# show tech-support port

show tech-support port

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>port</b>	Gather detailed information for port manager troubleshooting

## Command Modes

- /exec

# show tech-support private-vlan

show tech-support private-vlan

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>private-vlan</b>	Gather detailed information for private-vlan troubleshooting

## Command Modes

- /exec

# show tech-support radius

show tech-support radius

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for troubleshooting
<b>radius</b>	Display radius information

## Command Modes

- /exec



# show tech-support rip

show tech-support rip [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>rip</b>	Display RIP routing protocol status
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support routing ip unicast

show tech-support routing ip unicast [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>routing</b>	Display routing information
<b>ip</b>	Display IP information
<b>unicast</b>	Display unicast routing information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support routing ipv6

show tech-support routing ipv6 [unicast] [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>routing</b>	Display routing information
<b>ipv6</b>	Display IPv6 information
<b>unicast</b>	Display unicast routing information
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support routing multicast

show tech-support routing [ip| ipv4] multicast [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>routing</b>	Display routing information
<b>ip</b>	Display IP information
<b>ipv4</b>	Display IP information
<b>multicast</b>	Display V4 Multicast information
<b>brief</b>	Display brief information

## Command Modes

- /exec

# show tech-support rpm

show tech-support rpm

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>rpm</b>	Display Route Policy Manager (RPM) information

## Command Modes

- /exec

# show tech-support sal

show tech-support sal

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>sal</b>	Show SAL tech-support information

## Command Modes

- /exec

# show tech-support security

show tech-support security

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>security</b>	show tech support information for security

## Command Modes

- /exec

# show tech-support session-mgr

show tech-support session-mgr

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>session-mgr</b>	Gather information for troubleshooting session manager

## Command Modes

- /exec



# show tech-support sksd

show tech-support sksd

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>sksd</b>	show tech support information for sksd

## Command Modes

- /exec

# show tech-support smm

show tech-support smm

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>smm</b>	Shared memory

## Command Modes

- /exec

# show tech-support snmp

show tech-support snmp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>snmp</b>	Gather info related to snmp

## Command Modes

- /exec

# show tech-support sockets

show tech-support sockets [brief]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>sockets</b>	Display sockets status and configuration
<b>brief</b>	Brief information

## Command Modes

- /exec

# show tech-support spm

show tech-support spm [ *application* ] [detail]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>spm</b>	Service Policy Manager
<i>application</i>	Specify an application <b>wccp value: 1</b> <b>otv value: 2</b> <b>erspan value: 3</b> <b>vlan value: 5</b> <b>po value: 4</b> <b>cbts value: 6</b> <b>lisp value: 7</b>
<b>detail</b>	Print more details (e.g. messages,etc)

## Command Modes

- /exec

# show tech-support statsclient

show tech-support statsclient [*module module*]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>statsclient</b>	Gather statsclient tech-support
<b>module</b>	Gather info related to one module
<i>module</i>	Type: integer Enter module number

## Command Modes

- /exec

# show tech-support stp

show tech-support stp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>stp</b>	Gather detailed information for STP troubleshooting

## Command Modes

- /exec

# show tech-support sup-filesys

show tech-support sup-filesys

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>sup-filesys</b>	File-sys related issue

## Command Modes

- /exec



# show tech-support sysmgr

show tech-support sysmgr [commands]

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>sysmgr</b>	Gather detailed information for sysmgr troubleshooting
<b>commands</b>	Show commands executed as part of show tech-support sysmgr

## Command Modes

- /exec

# show tech-support tacacs+

```
show tech-support "tacacs+"
```

## Syntax Description

<b>show</b>	show tech-support
<b>tech-support</b>	Gather information for troubleshooting
<b>tacacs+</b>	Display tacacs information

## Command Modes

- /exec

# show tech-support track

show tech-support track

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>track</b>	Show track tech-support information

## Command Modes

- /exec

# show tech-support udd

show tech-support udd

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>udd</b>	Gather detailed information for udd troubleshooting

## Command Modes

- /exec

# show tech-support usd-all

show tech-support usd-all

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>usd-all</b>	Gather detailed information for LC USD troubleshooting

## Command Modes

- /exec

# show tech-support vdc

show tech-support vdc

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>vdc</b>	Gather detailed information for VDC troubleshooting

## Command Modes

- /exec

# show tech-support virtual-service

show tech-support virtual-service

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>virtual-service</b>	Gather information for virtualization services trouble shooting

## Command Modes

- /exec

# show tech-support vlan

show tech-support vlan

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>vlan</b>	Gather detailed information for VLAN troubleshooting

## Command Modes

- /exec



# show tech-support vpc

show tech-support vpc

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>vpc</b>	Gather detailed information for VPC troubleshooting

## Command Modes

- /exec

# show tech-support vrrp

show tech-support vrrp

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>vrrp</b>	Show information for vrrp technical support

## Command Modes

- /exec

# show tech-support vrrp brief

show tech-support vrrp brief

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for troubleshooting
<b>vrrp</b>	Show information for vrrp technical support
<b>brief</b>	Show information for vrrp technical support in brief

## Command Modes

- /exec

# show tech-support vxlan

show tech-support vxlan

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>vxlan</b>	VxLAN feature

## Command Modes

- /exec

# show tech-support xbar

show tech-support xbar

## Syntax Description

<b>show</b>	Show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>xbar</b>	Show xbar tech-support information

## Command Modes

- /exec

# show tech-support xml

show tech-support xml

## Syntax Description

<b>show</b>	show running system information
<b>tech-support</b>	Gather information for trouble shooting
<b>xml</b>	Gather information for xml trouble shooting

## Command Modes

- /exec

# show telnet server

show telnet server [**\_\_readonly\_\_** **operation\_status** *o\_status*]

## Syntax Description

<b>show</b>	Show running system information
<b>telnet</b>	Show telnet server configuration
<b>server</b>	Show telnet server configuration
<b>__readonly__</b>	
<b>operation_status</b>	run-time information about telnet
<i>o_status</i>	operational status of telnet server
	<b>disabled value: 0</b>
	<b>enabled value: 1</b>

## Command Modes

- /exec

# show terminal

show terminal

## Syntax Description

<b>show</b>	Show running system information
<b>terminal</b>	Display terminal configuration parameters

## Command Modes

- /exec



# show time-range

```
show time-range [ name ] [ __readonly__ TABLE_timerange timerange_name active [TABLE_seqno
seqno {absolute [start_abs_h start_abs_m start_abs_s start_abs_d start_abs_mon start_abs_y] [end_abs_h
end_abs_m end_abs_s end_abs_d end_abs_mon end_abs_y]] periodic {Monday| Tuesday| Wednesday|
Thursday| Friday| Saturday| Sunday| daily| weekdays| weekend}+ start_per_h start_per_m start_per_s
[ eday ] end_per_h end_per_m end_per_s| remark}] ]
```

## Syntax Description

<b>show</b>	Show running system information
<b>time-range</b>	Define time range entries
<i>name</i>	Type: string length: 64 Time range name
<b>__readonly__</b>	
<b>TABLE_timerange</b>	
<i>timerange_name</i>	Type: string length: 64
<i>active</i>	active  <b>inactive value: 0</b> inactive  <b>active value: 1</b> active
<b>TABLE_seqno</b>	
<i>seqno</i>	Type: uinteger min: 1 max: 4294967295 Sequence number
<b>absolute</b>	
<b>periodic</b>	
<i>remark</i>	Type: string
<i>start_abs_h</i>	Type: integer min: 0 max: 23

<i>start_abs_m</i>	Type: integer min: 0 max: 59
<i>start_abs_s</i>	Type: integer min: 0 max: 59
<i>start_abs_d</i>	Type: integer min: 1 max: 31
<i>start_abs_mon</i>	Type: integer min: 1 max: 12
<i>start_abs_y</i>	Type: integer min: 2000 max: 3000
<i>end_abs_h</i>	Type: integer min: 0 max: 23
<i>end_abs_m</i>	Type: integer min: 0 max: 59
<i>end_abs_s</i>	Type: integer min: 0 max: 59
<i>end_abs_d</i>	Type: integer min: 1 max: 31
<i>end_abs_mon</i>	Type: integer min: 1 max: 12
<i>end_abs_y</i>	Type: integer min: 2000 max: 3000
<b>Monday</b>	Monday
<b>Tuesday</b>	Tuesday
<b>Wednesday</b>	Wednesday
<b>Thursday</b>	Thursday
<b>Friday</b>	Friday
<b>Saturday</b>	Saturday
<b>Sunday</b>	Sunday

<b>daily</b>	Every day of the week
<b>weekdays</b>	Monday thru Friday
<b>weekend</b>	Saturday and Sunday
<i>start_per_h</i>	Type: integer min: 0 max: 23
<i>start_per_m</i>	Type: integer min: 0 max: 59
<i>start_per_s</i>	Type: integer min: 0 max: 59
<i>eday</i>	Day of the week  <b>Monday value: 1</b> Monday <b>Tuesday value: 2</b> Tuesday <b>Wednesday value: 3</b> Wednesday <b>Thursday value: 4</b> Thursday <b>Friday value: 5</b> Friday <b>Saturday value: 6</b> Saturday <b>Sunday value: 7</b> Sunday
<i>end_per_h</i>	Type: integer min: 0 max: 23
<i>end_per_m</i>	Type: integer min: 0 max: 59
<i>end_per_s</i>	Type: integer min: 0 max: 59

show time-range

### Command Modes

- /exec

# show track

```
show track [object-id] interface| ip route| ipv6 routev6| list boolean and| list boolean or| list threshold
weight| list threshold percentage] [ __readonly__ show_track_start TABLE_track_detail st_obj_id
st_obj_type st_obj_instance st_obj_param st_obj_state st_obj_chg_cnt st_last_chg_time st_threshold_info
st_track_list_obj st_obj_up_delay st_obj_down_delay st_obj_timer_value show_track_clnt_hdr
show_track_clnt_start TABLE_track_clnt_info st_client_name st_client_iface st_client_group_id
show_track_clnt_end st_track_list_info show_track_end]
```

## Syntax Description

<b>show</b>	Negate a command or set its defaults
<b>track</b>	Tracking information
<i>object-id</i>	Type: uinteger min: 1 max: 500 Tracked object
<b>interface</b>	Interface objects
<b>ip</b>	IPv4 Protocol objects
<b>route</b>	route (ipv4) objects
<b>ipv6</b>	IPv6 Protocol objects
<b>routev6</b>	route (ipv6) objects
<b>list</b>	Tracklist objects
<b>boolean</b>	Boolean Traclist
<b>and</b>	AND boolean objects
<b>or</b>	OR boolean objects
<b>threshold</b>	Threshold parameters
<b>weight</b>	Threshold weight
<b>percentage</b>	Threshold percentage
<u>__readonly__</u>	Read only
<i>show_track_start</i>	Type: uinteger Show track start
<b>TABLE_track_detail</b>	Track table detail

<i>st_obj_id</i>	Type: uinteger Object id
<i>st_obj_type</i>	Object Type <b>interface value: 0</b> <b>route value: 1</b> <b>v6route value: 2</b> <b>Booleanand value: 3</b> <b>Booleanor value: 4</b> <b>thresholdweight value: 5</b> <b>thresholdpercentage value: 6</b>
<i>st_obj_instance</i>	Type: string Object instance
<i>st_obj_param</i>	Object parameter <b>Line-Protocol value: 0</b> <b>IP-Routing value: 1</b> <b>IPv6-Routing value: 3</b> <b>Reachability value: 2</b> <b>Booleanandlist value: 4</b> <b>Booleanorlist value: 5</b> <b>Threshweightlist value: 6</b> <b>Threshpercentlist value: 7</b>
<i>st_obj_state</i>	Object status <b>UP value: 1</b> <b>DOWN value: 0</b>
<i>st_obj_chg_cnt</i>	Type: uinteger Count of Object state changes

<i>st_last_chg_time</i>	Type: string Timestamp of last change
<i>st_threshold_info</i>	Type: string Threshold Parameters
<i>st_track_list_obj</i>	Type: string Objects part of this list
<i>show_track_clnt_hdr</i>	Type: uinteger Tracked by:
<i>show_track_clnt_start</i>	Type: uinteger Show track client start
<b>TABLE_track_clnt_info</b>	Track client info
<i>st_client_name</i>	Type: string Tracking client name
<i>st_client_iface</i>	Type: interface Tracking client interface
<i>st_client_group_id</i>	Type: uinteger Client group id
<i>show_track_clnt_end</i>	Type: uinteger End of track client
<i>st_track_list_info</i>	Type: string Track list info
<i>st_obj_up_delay</i>	Type: uinteger Delay up notification
<i>st_obj_down_delay</i>	Type: uinteger Delay down notification
<i>st_obj_timer_value</i>	Type: uinteger Current value of timer
<i>show_track_end</i>	Type: uinteger End of Track

**Command Modes**

- /exec



## show track brief

**show track** [*object-id*] **interface** | **ip route** | **ipv6 routev6** | **list boolean and** | **list boolean or** | **list threshold weight** | **list threshold percentage** | **brief** [**\_\_readonly\_\_** *show\_track\_brf\_start* *show\_track\_brf\_all\_begin* **TABLE\_track\_brief** *st\_brf\_obj\_id* *st\_brf\_obj\_type* *st\_brf\_obj\_instance* *st\_brf\_obj\_param* *st\_brf\_obj\_state* *st\_brf\_last\_chg\_time* *show\_track\_brf\_end*]

### Syntax Description

<b>show</b>	Negate a command or set its defaults
<b>track</b>	Tracking information
<i>object-id</i>	Type: uinteger min: 1 max: 500 Tracked object
<b>interface</b>	Interface objects
<b>ip</b>	IPv4 Protocol objects
<b>route</b>	route (ipv4) objects
<b>ipv6</b>	IPv6 Protocol objects
<b>routev6</b>	route (ipv6) objects
<b>list</b>	Tracklist objects
<b>boolean</b>	Boolean Traclist
<b>and</b>	AND boolean objects
<b>or</b>	OR boolean objects
<b>threshold</b>	Threshold parameters
<b>weight</b>	Threshold weight
<b>percentage</b>	Threshold percentage
<b>brief</b>	Brief output
<b>__readonly__</b>	Read only
<i>show_track_brf_start</i>	Type: uinteger Show track brief start

<i>show_track_brf_all_begin</i>	Type: uinteger Start of all brief
<b>TABLE_track_brief</b>	Track table brief
<i>st_brf_obj_id</i>	Type: uinteger Object id
<i>st_brf_obj_type</i>	Object Type <b>interface value: 0</b> <b>route value: 1</b> <b>v6route value: 2</b> <b>Booleanand value: 3</b> <b>Booleanor value: 4</b> <b>Thresholdweight value: 5</b> <b>Thresholdpercent value: 6</b>
<i>st_brf_obj_instance</i>	Type: string Object instance
<i>st_brf_obj_param</i>	Object parameter <b>Line-Protocol value: 0</b> <b>IP-Routing value: 1</b> <b>IPV6-Routing value: 3</b> <b>Reachability value: 2</b> <b>Booleanandlist value: 4</b> <b>Booleanorlist value: 5</b> <b>Threshweightlist value: 6</b> <b>Threshpercentlist value: 7</b>

---

<i>st_brf_obj_state</i>	Object status <b>UP value: 1</b> <b>DOWN value: 0</b>
<i>st_brf_last_chg_time</i>	Type: string Timestamp of last change
<i>show_track_brf_end</i>	Type: uinteger End of Group

---

**Command Modes**

- /exec

## show tunnel iftable

**show tunnel iftable** [ *ifindex-in* ] [ **\_\_readonly\_\_** **TABLE-tunnelIfTable** *ifindex-out* *tunnelIfEncapsMethod* *tunnelIfHopLimit* *tunnelIfSecurity* *tunnelIfTOS* *tunnelIfFlowLabel* *tunnelIfAddressType* *tunnelIfLocalInetAddress* *tunnelIfRemoteInetAddress* *tunnelIfEncapsLimit* ]

### Syntax Description

<b>show</b>	Show running system information
<b>tunnel</b>	Show information about Tunnel
<b>iftable</b>	Show tunnel interface table
<i>ifindex-in</i>	Type: integer Tunnel ifindex
<b>__readonly__</b>	
<b>TABLE-tunnelIfTable</b>	Tunnel interface table
<i>ifindex-out</i>	Type: integer Tunnel ifindex

<i>tunnelIfEncapsMethod</i>	Encapsulation Method <b>other value: 1</b> <b>direct value: 2</b> <b>gre value: 3</b> <b>minimal value: 4</b> <b>l2tp value: 5</b> <b>pptp value: 6</b> <b>l2f value: 7</b> <b>udp value: 8</b> <b>atmp value: 9</b> <b>msdp value: 10</b> <b>sixToFour value: 11</b> <b>sixOverFour value: 12</b> <b>isatap value: 13</b> <b>teredo value: 14</b> <b>ipHttps value: 15</b>
<i>tunnelIfHopLimit</i>	Type: integer Hop Limit
<i>tunnelIfSecurity</i>	Security <b>none value: 1</b> <b>ipsec value: 2</b> <b>other value: 3</b>
<i>tunnelIfTOS</i>	Type: integer TOS
<i>tunnelIfFlowLabel</i>	Type: integer Flow Label

---

<i>tunnelIfAddressType</i>	Address Type
	<b>unknown value: 0</b>
	<b>ipv4 value: 1</b>
	<b>ipv6 value: 2</b>
	<b>ipv4z value: 3</b>
	<b>ipv6z value: 4</b>
	<b>dns value: 16</b>

---

<i>tunnelIfLocalInetAddress</i>	Type: nameorip
	Local IP Address

---

<i>tunnelIfRemoteInetAddress</i>	Type: nameorip
	Remote IP Address

---

<i>tunnelIfEncapsLimit</i>	Type: integer
	Encaps Limit

---

**Command Modes**

- /exec

## show tunnel inetconfigtable

```
show tunnel inetconfigtable [tunnelInetConfigAddressType-in [tunnelInetConfigLocalAddress-in
[tunnelInetConfigRemoteAddress-in [tunnelInetConfigEncapsMethod-in [ tunnelInetConfigID-in ]]]]
[__readonly__ TABLE-tunnelInetConfigTable tunnelInetConfigAddressType-out
tunnelInetConfigLocalAddress-out tunnelInetConfigRemoteAddress-out tunnelInetConfigEncapsMethod-out
tunnelInetConfigID-out tunnelInetConfigIfIndex tunnelInetConfigStatus tunnelInetConfigStorageType]
```

### Syntax Description

<b>show</b>	Show running system information
<b>tunnel</b>	Show information about Tunnel
<b>inetconfigtable</b>	Show inet config table
<i>tunnelInetConfigAddressType-in</i>	Address Type <b>unknown value: 0</b> <b>ipv4 value: 1</b> <b>ipv6 value: 2</b> <b>ipv4z value: 3</b> <b>ipv6z value: 4</b> <b>dns value: 16</b>
<i>tunnelInetConfigLocalAddress-in</i>	Type: nameorip Local IP Address
<i>tunnelInetConfigRemoteAddress-in</i>	Type: nameorip Remote IP Address

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<i>tunnelInetConfigEncapsMethod-in</i>	Encapsulation Method
	<b>other value: 1</b>
	<b>direct value: 2</b>
	<b>gre value: 3</b>
	<b>minimal value: 4</b>
	<b>l2tp value: 5</b>
	<b>pptp value: 6</b>
	<b>l2f value: 7</b>
	<b>udp value: 8</b>
	<b>atmp value: 9</b>
	<b>msdp value: 10</b>
	<b>sixToFour value: 11</b>
	<b>sixOverFour value: 12</b>
	<b>isatap value: 13</b>
	<b>teredo value: 14</b>
	<b>ipHttps value: 15</b>

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<i>tunnelInetConfigID-in</i>	Type: integer Configuration ID
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<b>__readonly__</b>	
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<b>TABLE-tunnelInetConfigTable</b>	Tunnel Inet Config Table
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<i>tunnelInetConfigAddressType-out</i>	Address Type <b>unknown value: 0</b> <b>ipv4 value: 1</b> <b>ipv6 value: 2</b> <b>ipv4z value: 3</b> <b>ipv6z value: 4</b> <b>dns value: 16</b>
<i>tunnelInetConfigLocalAddress-out</i>	Type: nameorip Local IP Address
<i>tunnelInetConfigRemoteAddress-out</i>	Type: nameorip Remote IP Address

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<i>tunnelInetConfigEncapsMethod-out</i>	Encapsulation Method <b>other value: 1</b> <b>direct value: 2</b> <b>gre value: 3</b> <b>minimal value: 4</b> <b>l2tp value: 5</b> <b>pptp value: 6</b> <b>l2f value: 7</b> <b>udp value: 8</b> <b>atmp value: 9</b> <b>msdp value: 10</b> <b>sixToFour value: 11</b> <b>sixOverFour value: 12</b> <b>isatap value: 13</b> <b>teredo value: 14</b> <b>ipHttps value: 15</b>
<i>tunnelInetConfigID-out</i>	Type: integer Configuration ID
<i>tunnelInetConfigIfIndex</i>	Type: integer If Index

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*tunnelInetConfigStatus* Row Status

- active value: 1**
- notInService value: 2**
- notReady value: 3**
- createAndGo value: 4**
- createAndWait value: 5**
- destroy value: 6**

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*tunnelInetConfigStorageType* Storage Type

- other value: 1**
- volatile value: 2**
- nonVolatile value: 3**
- permanent value: 4**
- readOnly value: 5**

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**Command Modes**

- /exec

**show tunnel inetconfigtable**