



M Show Commands

- [show mac-list](#), page 3
- [show mac address-table \(l2fm\)](#), page 4
- [show mac address-table \(l2fm\)](#), page 6
- [show mac address-table aging-time](#), page 9
- [show mac address-table count](#), page 10
- [show mac address-table learning-mode](#), page 12
- [show mac address-table multicast](#), page 13
- [show mac address-table notification mac-move](#), page 14
- [show mac vdc](#), page 15
- [show mcectest](#), page 16
- [show mcectest mcec interface](#), page 17
- [show mgmt-policy](#), page 18
- [show module](#), page 19
- [show module bandwidth-fairness](#), page 33
- [show module fex](#), page 34
- [show module supported](#), page 36
- [show module uptime](#), page 37
- [show monitor](#), page 38
- [show monitor session](#), page 42
- [show mpls label range](#), page 49
- [show mpls label statistics](#), page 50
- [show mpls switching](#), page 51
- [show mpls switching clients](#), page 54
- [show mroute](#), page 56

- [show mroute flood vlan, page 60](#)
- [show mroute summary, page 61](#)
- [show multicast ftg, page 63](#)
- [show multicast trees, page 64](#)
- [show mvpn bgp, page 67](#)
- [show mvpn mdt encap, page 68](#)
- [show mvpn mdt route, page 69](#)
- [show mvpn snmp mib genericTable, page 70](#)
- [show mvpn snmp mib mvpnBgpMdtUpdateTable, page 71](#)
- [show mvpn snmp mib mvpnMdtDataTable, page 73](#)
- [show mvpn snmp mib mvpnMdtDefaultTable, page 75](#)
- [show mvpn snmp mib mvpnMdtJnRcvTable, page 76](#)
- [show mvpn snmp mib mvpnMdtJnSendTable, page 78](#)
- [show mvpn snmp mib mvpnMrouteMdtTable, page 80](#)
- [show mvpn snmp mib mvpnMvrfNumber, page 82](#)
- [show mvpn snmp mib mvpnNotificationEnable, page 83](#)
- [show mvpn snmp mib mvpnTunnelTable, page 84](#)

show mac-list

show mac-list [*mac_list_name* [**seq** *seq_no*| *mac_addr* [*mac_mask*]]] [**__readonly__** **TABLE_mac_list** *name seq action rule*]

Syntax Description

show	Show running system information
mac-list	Show mac-lists
<i>mac_list_name</i>	Type: string pattern: [!~]* length: 63 Name of mac list
seq	Sequence number
<i>seq_no</i>	Type: uinteger min: 1 max: 4294967294 Sequence number
<i>mac_addr</i>	Type: ethernet MAC address
<i>mac_mask</i>	Type: ethernet MAC mask
__readonly__	
TABLE_mac_list	
<i>name</i>	Type: string
<i>seq</i>	Type: uinteger
<i>action</i>	Type: string
<i>rule</i>	Type: string

Command Modes

- /exec

show mac address-table (I2fm)

```
show mac address-table [static| dynamic| secure] [[address1 mac-addr| switch-id swid [sub-switch-id
sswid]] vlan1 id]+| [address mac-addr| interface interface-name| vlan id]+] [__readonly__ l2entry header
TABLE_mac_address disp_mac_addr disp_type disp_vlan disp_is_static disp_age disp_is_secure disp_is_ntfy
disp_port]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
static	Display Static Entries
dynamic	Display Dynamic Entries
secure	Display Secure Entries <i>Not available in this release.</i>
address	address
address1	address
<i>mac-addr</i>	Type: ethernet MAC Address
switch-id	Remote Switch ID
<i>swid</i>	Type: integer min: 1 max: 4095 Switch ID
sub-switch-id	Remote Sub Switch ID
<i>sswid</i>	Type: integer min: 0 max: 255 Sub Switch ID
interface	Interface
<i>interface-name</i>	Type: interface Interface name
vlan	VLAN
vlan1	VLAN

<i>id</i>	Type: integer min: 1 max: 4094 VLAN ID
__readonly__	
<i>header</i>	Type: string Header
<i>l2entry</i>	Type: string L2 Entry String
TABLE_mac_address	Mac address table
<i>disp_type</i>	Type: string GateWay or Primary Entry or OTV or None
<i>disp_vlan</i>	Type: uinteger VLAN
<i>disp_mac_addr</i>	Type: ethernet MAC Address
<i>disp_is_static</i>	Type: bool Static/Dynamic
<i>disp_age</i>	Type: uinteger Age of the Mac
<i>disp_is_secure</i>	Type: bool Is mac secure
<i>disp_is_ntfy</i>	Type: bool Is mac notified
<i>disp_port</i>	Type: string Interface/port info of the mac

Command Modes

- /exec

show mac address-table (I2fm)

```
show mac address-table module [count] [static|dynamic|secure] [[address1 mac-addr| switch-id swid
[sub-switch-id sswid]| vlan1 id [vdc1 vdc| e-vdc]| fe1 feid+] [address mac-addr| interface interface-name|
vlan id [vdc vdc| e-vdc]| fe feid+] [hex] [__readonly__ entrycount l2entry header pi_e age rm ifname sec
ntfy type]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
<i>module</i>	Type: integer min: 1 max: 16 Module Number
count	Number of entries
static	Display Static Entries
dynamic	Display Dynamic Entries
secure	Display Secure Entries <i>Not available in this release.</i>
address	address
address1	address
<i>mac-addr</i>	Type: ethernet MAC Address
switch-id	Remote Switch ID
<i>swid</i>	Type: integer min: 1 max: 4095 Switch ID
sub-switch-id	Remote Sub Switch ID
<i>sswid</i>	Type: integer min: 0 max: 255 Sub Switch ID
interface	Interface

<i>interface-name</i>	Type: interface Interface name
vlan	VLAN
vlan1	VLAN
<i>id</i>	Type: integer min: 1 max: 4094 VLAN ID
vdc	VDC ID or Name
vdc1	VDC ID or Name
<i>vdc</i>	Type: integer min: 1 max: 16 VDC ID
<i>e-vdc</i>	Type: userdef Select VDC ID that match VDC Name
fe	Forwarding Engine Instance ID(Zero based)
fe1	Forwarding Engine Instance ID(Zero based)
<i>feid</i>	Type: integer min: 0 max: 15 FE ID value
hex	display swid/sswid/lid in hex
__readonly__	
<i>header</i>	Type: string Header
<i>pi_e</i>	Type: string Primary Interface of EARL
<i>age</i>	Type: integer min: 1 max: 1000000 Last seen age in seconds
<i>rm</i>	Type: string RM

<i>ifname</i>	Type: string interface name as string
<i>sec</i>	Type: string secure
<i>ntfy</i>	Type: string notify
<i>entrycount</i>	Type: string Number of L2 entries
<i>l2entry</i>	Type: string L2 Entry String
<i>type</i>	Type: string MAC type - Static or Dynamic

Command Modes

- /exec

show mac address-table aging-time

```
show mac address-table aging-time [__readonly__ age_str age]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
aging-time	Configured/default age
<u>__readonly__</u>	
<i>age_str</i>	Type: string Age info
<i>age</i>	Type: integer min: 1 max: 1000000 Age time

Command Modes

- /exec

show mac address-table count

```
show mac address-table count [static dynamic] [vlan id] interface interface-name | switch-id swid
[sub-switch-id sswid]+ [__readonly__ TABLE-macaddtblcount id-out count_str total_cnt dyn_cnt static_cnt
secure_cnt otv_cnt]
```

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
count	Number of MAC entries
static	Display Static Entries
dynamic	Display Dynamic Entries
vlan	VLAN
<i>id</i>	Type: integer min: 1 max: 4094 VLAN ID
interface	Interface
<i>interface-name</i>	Type: interface Interface name
switch-id	Remote Switch ID
<i>swid</i>	Type: integer min: 1 max: 4095 Switch ID
sub-switch-id	Remote Sub Switch ID
<i>sswid</i>	Type: integer min: 0 max: 255 Sub Switch ID
__readonly__	
TABLE-macaddtblcount	MAC Address Dynamic Count Table

<i>id-out</i>	Type: integer MAC Address Table VLAN ID
<i>count_str</i>	Type: string Count info
<i>total_cnt</i>	Type: integer Total count
<i>dyn_cnt</i>	Type: integer Dynamic count
<i>static_cnt</i>	Type: integer Static count
<i>secure_cnt</i>	Type: integer Secure count
<i>otv_cnt</i>	Type: integer OTV count

Command Modes

- /exec

show mac address-table learning-mode

show mac address-table learning-mode [*vlan id*] [*__readonly__ learning_mode_str vlan_id mode_str*]

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
learning-mode	Learning Mode <i>Not available in this release.</i>
vlan	VLAN
<i>id</i>	Type: integer min: 1 max: 4094 VLAN ID
__readonly__	
<i>learning_mode_str</i>	Type: string Learning Mode
<i>vlan_id</i>	Type: integer min: 1 max: 4094 VLAN ID
<i>mode_str</i>	Type: string Mode

Command Modes

- /exec

show mac address-table multicast

show mac address-table multicast [**vlan** *vlan-id*] [**__readonly__** **TABLE_vlan** *vlan-id mac-addr type age oifs*]

Syntax Description

show	Show running system information
mac	MAC configuration commands
address-table	MAC Address Table
multicast	mcast mac OIF Static Entry <i>Not available in this release.</i>
vlan	VLAN/BD
<i>vlan-id</i>	Type: vlan VLAN/BD
__readonly__	
TABLE_vlan	
<i>vlan-id</i>	Type: integer
<i>mac-addr</i>	Type: ethernet
<i>type</i>	Type: string
<i>age</i>	Type: integer
<i>oifs</i>	Type: interface

Command Modes

- /exec

show mac address-table notification mac-move

show mac address-table notification mac-move [*__readonly__* *TABLE_mac_notif* *disp_mm_status* *disp_mm_triggers* *disp_macs_added* *disp_macs_moved* *disp_macs_removed*]

Syntax Description

show	show
mac	MAC
address-table	MAC Address Table
notification	Display Notification Information
mac-move	Mac Move Notification
<i>__readonly__</i>	Read Only
TABLE_mac_notif	Mac address notification table
<i>disp_mm_status</i>	Type: uinteger Mac Move Status
<i>disp_mm_triggers</i>	Type: uinteger # of triggers
<i>disp_macs_added</i>	Type: uinteger Number of MACs added since system bring up
<i>disp_macs_removed</i>	Type: uinteger Number of MACs removed since system bring up
<i>disp_macs_moved</i>	Type: uinteger Number of MACs moved since system bring up

Command Modes

- /exec

show mac vdc

```
show mac vdc vdc_id [__readonly__ vdc_id mac_address]
```

Syntax Description

show	show
mac	show management port mac address of the given vdc
vdc	show management port mac address of this vdc id
<i>vdc_id</i>	Type: integer min: 1 max: 4 please enter vdc id
<u>__readonly__</u>	
<i>vdc_id</i>	Type: string
<i>mac_address</i>	Type: string

Command Modes

- /exec

show mcectest

`show mcectest arg [__readonly__ arg_resp]`

Syntax Description

show	Show running system information
mcectest	Show MCECTEST related information
<i>arg</i>	Type: string Enter your arguments
__readonly__	Read Only
<i>arg_resp</i>	Type: string Response

Command Modes

- /exec

show mcectest mcec interface

show mcectest mcec interface *if* [*use-cache*] [*vdc-id*] [*_readonly_ mcec_mode*]

Syntax Description

show	Show running system information
mcectest	Show MCECTEST related information
mcec	Show MCECM information
interface	Specify interface
use-cache	Use cache
readonly	
<i>mcec_mode</i>	Type: string MCEC port mode

Command Modes

- /exec

show mgmt-policy

show mgmt-policy {*policy-name*| **all**} [**__readonly__** **TABLE_mgmt_policy** *mgt-pol-name* [*source-ip* *source-mask*] [*source-ip6*] [*src-port-rangestart* *src-port-range-end*] [*source-port*] [*dst-port-rangestart* *dst-port-range-end*] [*dest-port*]]

Syntax Description

show	Show running system information
mgmt-policy	PM Management policy
<i>policy-name</i>	Type: string Name of the policy
all	Show all policies
__readonly__	
TABLE_mgmt_policy	Management policy Details
<i>mgt-pol-name</i>	Type: string
<i>source-ip</i>	Type: ipaddr
<i>source-mask</i>	Type: string
<i>source-ip6</i>	Type: ipv6addr
<i>src-port-rangestart</i>	Type: integer
<i>src-port-range-end</i>	Type: integer
<i>source-port</i>	Type: integer
<i>dst-port-rangestart</i>	Type: integer
<i>dst-port-range-end</i>	Type: integer
<i>dest-port</i>	Type: integer

Command Modes

- /exec

show module

show module [*module*| *s0* [*santa-cruz-range*]] **fabric** [*module*] [**__readonly__** **TABLE_modinfo** *modinf* *ports* *modtype* *model* *status* [**TABLE_modpwrinfo** *modpwr* *pwrstat* *reason*] **TABLE_modwwninfo** *modwwn* *sw* *hw* *slottype* [**TABLE_modapplinfo** *modappl* *desc* *applver*] **TABLE_modmacinfo** *modmac* *mac* *serialnum* **TABLE_moddiaginfo** *mod* *diagstatus* **TABLE_xbarinfo** *xbarinf* *xbarports* *xbartype* *xbarmodel* *xbarstatus* [**TABLE_xbarpwrinfo** *xbarpwr* *xbarpwrstat* *xbarreason*] **TABLE_xbarwwninfo** *xbarwwn* *xbarsw* *xbarhw* *xbarwwnstr* **TABLE_xbarmacinfo** *xbarmac* *xbarmacaddr* *xbarserialnum*]

Syntax Description

show	Show running system information
module	Show module information
<i>module</i>	Type: integer min: 1 max: 30 Enter module number
<i>s0</i>	Type: xbar-str Show xbar information
<i>santa-cruz-range</i>	Type: integer-range please enter the xbar number
fabric	Show fabric information
<i>santa-cruz-range</i>	Type: integer-range please enter the fabric number
__readonly__	
TABLE_modinfo	Show Module info
<i>modinf</i>	Type: uinteger Module
<i>ports</i>	Type: uinteger Num Ports
<i>modtype</i>	Type: string Module Type
<i>model</i>	Type: string Model

status

Status

present value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

active * value: 26

standby value: 23

ha-standby value: 24

initializing(vdc) value: 27

ok value: 25

ok(partial failure) value: 28

TABLE_modpwrinfo	Mod Pwr Info
<i>modpwr</i>	Type: uinteger Module

pwrstat

Power Status

Unsupported(poweroff) value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

standby value: 23

ha-standby value: 24

ok value: 25

<i>reason</i>	Type: string Reason
TABLE_modwwninfo	Mod WWN Info
<i>modwwn</i>	Type: uinteger Module
<i>sw</i>	Type: string SW Ver
<i>hw</i>	Type: string HW Ver
<i>slottype</i>	Type: string Slot
TABLE_modapplinfo	Mod Appl image info
<i>modappl</i>	Type: uinteger Module
<i>desc</i>	Type: string Image desc
<i>applver</i>	Type: string Version
TABLE_modmacinfo	Mod MAC Info
<i>modmac</i>	Type: uinteger Module
<i>mac</i>	Type: string MAC
<i>serialnum</i>	Type: string Serial Num
TABLE_moddiaginfo	Mod diag info
<i>mod</i>	Type: uinteger Module

<i>diagstatus</i>	Type: string Diag status
-------------------	-----------------------------

TABLE_xbarinfo	Show xbar info
-----------------------	----------------

<i>xbarinf</i>	Type: uinteger Module
----------------	--------------------------

<i>xbarports</i>	Type: uinteger Num Ports
------------------	-----------------------------

<i>xbartype</i>	Type: string Module Type
-----------------	-----------------------------

<i>xbarmodel</i>	Type: string Model
------------------	-----------------------

xbarstatus

Status

Unsupported(poweroff) value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

active * value: 26

standby value: 23

ha-standby value: 24

initializing(vdc) value: 27

ok value: 25

TABLE_xbarpwrinfo	Xbar Pwr Info
<i>xbarpwr</i>	Type: uinteger Module

xbarpwrstat

Power Status

Unsupported(poweroff) value: 0

removed value: 1

online value: 2

Offline value: 3

powered-up value: 4

powered-dn value: 5

err-pwd-dn value: 6

testing value: 7

initializing value: 8

failure value: 9

registrn_failure value: 10

failure value: 11

upgrading value: 12

SRG_failure value: 13

HA_Seqno_failure value: 14

inserted value: 15

initializing(Gsync) value: 16

battery-powered value: 17

pwr-denied value: 18

absent value: 19

pwr-cycld value: 20

unknown value: 21

active value: 22

active * value: 26

standby value: 23

ha-standby value: 24

initializing(vdc) value: 27

ok value: 25

<i>xbarreason</i>	Type: string Reason
TABLE_xbarwwninfo	Xbar WWN Info
<i>xbarwwn</i>	Type: uinteger Module
<i>xbarsw</i>	Type: string SW Ver
<i>xbarhw</i>	Type: string HW Ver
<i>xbarwwnstr</i>	Type: string WWN
TABLE_xbarmacinfo	Xbar MAC Info
<i>xbarmac</i>	Type: uinteger Module
<i>xbarmacaddr</i>	Type: string MAC
<i>xbarserialnum</i>	Type: string Serial Num

Command Modes

- /exec

show module bandwidth-fairness

show module *module* bandwidth-fairness [__readonly__ TABLE_fairness *statement*]

Syntax Description

show	Show running system information
module	Show module information
<i>module</i>	Type: integer min: 1 max: 30 Enter module number
bandwidth-fairness	Show bandwidth fairness status
<u>__readonly__</u>	
<u>TABLE_fairness</u>	
<i>statement</i>	Type: string

Command Modes

- /exec

show module fex

show module fex [**all** | *i*] [**__readonly__** **TABLE_modinfo** *fexinf modinf ports modtype model status*
TABLE_modwwninfo *fexwwn modwwn sw hw wwn* **TABLE_modmacinfo** *fexmac modmac mac serialnum*]

Syntax Description

show	Show running system information
module	Show module information
fex	Show fex module information
all	Show information for all FEX
<i>i</i>	Type: integer min: 100 max: 199 Enter FEX identifier
__readonly__	
TABLE_modinfo	Show Module info
<i>fexinf</i>	Type: uinteger Fex
<i>modinf</i>	Type: uinteger Module
<i>ports</i>	Type: uinteger Num Ports
<i>modtype</i>	Type: string Module Type
<i>model</i>	Type: string Model
<i>status</i>	Type: string Status
TABLE_modwwninfo	Mod WWN Info
<i>fexwwn</i>	Type: uinteger Fex

<i>modwwn</i>	Type: uinteger Module
<i>sw</i>	Type: string SW Ver
<i>hw</i>	Type: string HW Ver
<i>wwn</i>	Type: string WWN
TABLE_modmacinfo	Mod MAC Info
<i>fexmac</i>	Type: uinteger Fex
<i>modmac</i>	Type: uinteger Module
<i>mac</i>	Type: string MAC
<i>serialnum</i>	Type: string Serial Num

Command Modes

- /exec

show module supported

show module supported

Syntax Description

show	Show running system information
module	Show module information
supported	Show supported sw-card-types for this chassis

Command Modes

- /exec

show module uptime

show module uptime [**__readonly__** **TABLE_uptimeinf** *slot starttime daysup hoursup minutesup secondsup*]

Syntax Description

show	Show running system information
module	Show module information
uptime	Show how long the module has been up and running
__readonly__	
TABLE_uptimeinf	Show uptime info
<i>slot</i>	Type: string Slot
<i>starttime</i>	Type: date Start Time
<i>daysup</i>	Type: uinteger Days Up
<i>hoursup</i>	Type: uinteger Hours Up
<i>minutesup</i>	Type: uinteger Minutes Up
<i>secondsup</i>	Type: uinteger Seconds Up

Command Modes

- /exec

show monitor

show monitor [**__readonly__** **TABLE_session** *session_number* *state* *state_reason* *description*]

Syntax Description

show Show running system information

monitor Show Ethernet SPAN information

__readonly__ Read only

TABLE_session show monitor

session_number Type: integer
session id

state State

up value: 1

down value: 2

error value: 3

state_reason

State reason

The session is up value: 0

No hardware resource value: 1

No operational src/dst value: 2

Generic error value: 3

No sources configured value: 4

No dest configured value: 5

No src/dst configured value: 6

Session admin shut value: 7

Dst in wrong mode value: 8

Src in wrong mode value: 9

No erspan-id specified value: 10

Multi-dst not allowed value: 11

No valid VRF value: 12

No valid IP Address value: 13

No valid global IP Address value: 14

ACL capture feature disabled value: 15

ACL capture resource unavailable value: 16

ACL capture VDC mismatched value: 17

SPAN session not supported in F1/F2 only VDC value: 18

No route to destination IP address value: 20

ARP not resolved value: 21

Egress interface not resolved value: 22

SVI member not retrieved value: 23

FP route not found value: 24

Source MAC not retrieved value: 25

Failed to retrieve .1q tag for egress SI value: 29

Source switch-id not retrieved value: 26

Source LID not retrieved value: 27

Failed to retrieve FPC for egress fex intf value: 30

Unsupported route (e.g. tunnel, lo) value: 31

<i>description</i>	Type: string
	Session Description

Command Modes

- /exec

show monitor session

```
show monitor session {all|session_number|range session_range} [brief] [__readonly__ TABLE_session
session_number flow_id state state_reason description type session_mode [sources_rx ]+ [sources_tx ]+
[sources_both ]+ [destinations ]+ [acl_destinations ]+ [source_vlans_rx ]+ [src_ip ]+ [erspan_id ]+
[dst_ip ]+ [origin_ip ]+ [vrf_name ]+ [acl_name ]+ [erspan_ttl ]+ [erspan_dscp ]+ [source_vlans_tx ]+
[source_vlans_both ]+ [filter_vlans ]+ [span_mtu ]+ [span_rate ]+ [span_sampling ]+ [tree-id ]+
[switchid ]+ [err_desc ]+ [l3_egress_span ]+ [fex_ingress_intf ]+ [sampling_capability ]+ [mtu_capability ]+
[rate_limit_cap ]+ [mcbe ]+ [switch_id ]+ [erspan_v3_cap ]+ [erspan_acl ]+ [version ]+
[erspan_granularity ]+ [erspan_gran_cap ]+ [erspan_v2_cap ]]
```

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
session	Show session info
all	All sessions
<i>session_number</i>	Type: integer min: 1 max: 32
range	Specify a range
<i>session_range</i>	Type: integer-mrange
brief	Brief information
__readonly__	Read only
TABLE_session	show monitor
<i>flow_id</i>	Type: integer erspan-id
<i>description</i>	Type: string Session Description
<i>err_desc</i>	Type: string Error Description
<i>type</i>	Session type

state

State

up value: 1**down value: 2****error value: 3**

state_reason

State reason

The session is up value: 0

No hardware resource value: 1

No operational src/dst value: 2

Generic error value: 3

No sources configured value: 4

No dest configured value: 5

No src/dst configured value: 6

Session admin shut value: 7

Dst in wrong mode value: 8

Src in wrong mode value: 9

No erspan-id specified value: 10

Multi-dst not allowed value: 11

No valid VRF value: 12

No valid IP Address value: 13

No valid global IP Address value: 14

ACL capture feature disabled value: 15

ACL capture resource unavailable value: 16

ACL capture VDC mismatched value: 17

SPAN session not supported in F1/F2 only VDC value: 18

No route to destination IP address value: 20

ARP not resolved value: 21

Egress interface not resolved value: 22

SVI member not retrieved value: 23

FP route not found value: 24

Source MAC not retrieved value: 25

Failed to retrieve .1q tag for egress SI value: 29

Source switch-id not retrieved value: 26

Source LID not retrieved value: 27

Failed to retrieve FPC for egress fex intf value: 30

Unsupported route (e.g. tunnel, lo) value: 31

<i>session_mode</i>	Type: string Session mode
<i>sources_rx</i>	Type: interface List of ingress sources
<i>sources_tx</i>	Type: interface List of egress sources
<i>sources_both</i>	Type: interface List of sources in both directions
<i>span_mtu</i>	Type: uinteger SPAN MTU value
<i>span_rate</i>	Type: uinteger SPAN rate limit value
<i>span_sampling</i>	Type: uinteger SPAN sampling range
<i>destinations</i>	Type: interface List of destinations
<i>acl_destinations</i>	Type: interface List of interfaces that wont work for acl capture
<i>dst_ip</i>	Type: ipaddr ERSPAN destination IP
<i>src_ip</i>	Type: ipaddr ERSPAN source IP
<i>origin_ip</i>	Type: ipaddr ERSPAN origin IP at source router

<i>erspan_id</i>	Type: uinteger ERSPAN ID Value
<i>vrf_name</i>	Type: string ERSPAN session VRF
<i>acl_name</i>	Type: string ERSPAN session ACL
<i>erspan_ttl</i>	Type: uinteger ERSPAN TTL Value
<i>erspan_dscp</i>	Type: uinteger ERSPAN DSCP Value
<i>source_vlans_rx</i>	Type: vlan-mrange Source ingress vlan
<i>source_vlans_tx</i>	Type: vlan-mrange Source egress vlan
<i>source_vlans_both</i>	Type: vlan-mrange Source vlans in both directions
<i>filter_vlans</i>	Type: vlan-mrange Filter vlans
<i>tree-id</i>	Type: uinteger proxy layer2 gateway source tree-id
<i>switchid</i>	Type: uinteger proxy layer2 gateway source switchid
<i>sampling_capability</i>	Type: uinteger List of modules that support Sampling
<i>mtu_capability</i>	Type: uinteger List of modules that support MTU
<i>l3_egress_span</i>	Type: uinteger List of modules that support L3 Multicast Egress SPAN
<i>fex_ingress_intf</i>	Type: uinteger List of fex interfaces that wont work for ingress span

<i>rate_limit_cap</i>	Type: uinteger List of modules that support Rate Limit
<i>mcbe</i>	Type: uinteger List all modules that support multicast best effort
<i>switch_id</i>	Type: uinteger erspan_switch-id
<i>erspan_v3_cap</i>	Type: uinteger List of modules that support erspan version3
<i>erspan_v2_cap</i>	Type: uinteger List of modules that support erspan version2
<i>erspan_acl</i>	Type: uinteger List of modules that support ERSPAN ACL filtering
<i>version</i>	Type: uinteger Erspan source version: v2/v3
<i>erspan_gran_cap</i>	Type: uinteger List of modules that support the granularity set
<i>erspan_granularity</i>	Type: string ERSPAN Type III Granularity

Command Modes

- /exec

show mpls label range

show mpls label range [__readonly__ TABLE_label_range *dynamic-min dynamic-max static-min static-max*]

Syntax Description

show	Show running system information
mpls	MPLS configuration commands
label	Label properties
range	Label range
<u>__readonly__</u>	
<u>TABLE_label_range</u>	
<i>dynamic-min</i>	Type: uinteger
<i>dynamic-max</i>	Type: uinteger
<i>static-min</i>	Type: uinteger
<i>static-max</i>	Type: uinteger

Command Modes

- /exec

show mpls label statistics

show mpls label statistics *label* [**__readonly__** **TABLE_label_stats** *label packets bytes*]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
label	Show a specific label statistics
statistics	Statistics for the label
<i>label</i>	Type: integer min: 0 max: 524286 Label
__readonly__	
TABLE_label_stats	
<i>label</i>	Type: uinteger Label value
<i>packets</i>	Type: uinteger No. of packets
<i>bytes</i>	Type: uinteger No. of bytes

Command Modes

- /exec

show mpls switching

```
show mpls switching [labels label [ max-label ]] interface intf {ip-addr| ipv4-prefix} [vrf vrf-name]
ipv6-prefix [vrf vrf-name]| traffic-eng tunnels [cbts] [ tunnel-id ]| traffic-eng lsp ipv4 [ingress-addr tunnel-id]
aggregate [ipv4| ipv6] [vrf vrf-name]| fec {te_if| ipv4_te_lsp| ipv6_te_lsp| ipv4_prefix [vrf vrf-name]|
ipv6_prefix [vrf vrf-name]| deagg [vrf vrf-name]}| summary [detail] [private] [vrf vrf-name] [__readonly__
TABLE_vrf vrf_name in_label out_label ipv4_prefix ipv6_prefix tunnel_v4_mid_source tunnel_v6_mid_source
tunnel_id ext_v4_tunnel_id ext_v6_tunnel_id tunnel_instance deagg_vrf deagg_af tunnel_head out_interface
ipv4_next_hop ipv6_next_hop nhlfe_p2p_flag nhlfe_frr_status nhlfe_stale_flag in_packets in_bytes out_packets
out_bytes tunnel_v4_mid_dest tunnel_v6_mid_dest ipv4_next_hop ipv6_next_hop]
```

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
traffic-eng	Show traffic-engineering related entries
<i>ip-addr</i>	Type: ipaddr Match destination address
<i>ipv4-prefix</i>	Type: ipprefix Specify an IP prefix/mask
<i>ipv6-prefix</i>	Type: ipv6prefix Specify an IPv6 prefix/mask
fec	Show FEC information in the ULIB
private	Show more detailed information in the ULIB
labels	Show a specific label-related information
<i>label</i>	Type: integer min: 0 max: 524286 Low label value
<i>max-label</i>	Type: integer min: 0 max: 524286 High label value
interface	Match outgoing interface
tunnels	Show TE head-end information

cbts	Show TE head-end CBTS information
lsp	Show TE mid-point information
aggregate	Show aggregate-related information
<i>intf</i>	Type: interface Specify outgoing interface
<i>ingress-addr</i>	Type: ipaddr Match TE ingress address
summary	Summarized information
detail	Detailed information
te_if	TE tunnel head-end
ipv4_te_lsp	TE IPv4 LSP midpoint
ipv6_te_lsp	TE IPv6 LSP midpoint
ipv4_prefix	IPv4 prefix
ipv6_prefix	IPv6 prefix
ipv4	Display IPv4 information
ipv6	Display IPv6 information
deagg	De-aggregation
<i>tunnel-id</i>	Type: integer min: 0 max: 65535 LSP Tunnel ID
vrf	Display per-VRF information
<i>vrf-name</i>	Type: vrf VRF name (Max Size 32)
__readonly__	
TABLE_vrf	
<i>vrf_name</i>	Type: string
<i>in_label</i>	Type: uinteger
<i>out_label</i>	Type: uinteger

<i>ipv4_prefix</i>	Type: ipprefix
<i>ipv6_prefix</i>	Type: ipv6prefix
<i>tunnel_v4_mid_source</i>	Type: ipaddr
<i>tunnel_v6_mid_source</i>	Type: ipv6addr
<i>tunnel_v4_mid_dest</i>	Type: ipaddr
<i>tunnel_v6_mid_dest</i>	Type: ipv6addr
<i>tunnel_id</i>	Type: uinteger
<i>ext_v4_tunnel_id</i>	Type: ipaddr
<i>ext_v6_tunnel_id</i>	Type: ipv6addr
<i>tunnel_instance</i>	Type: uinteger
<i>tunnel_head</i>	Type: string
<i>deagg_vrf</i>	Type: string
<i>deagg_af</i>	Type: string
<i>out_interface</i>	Type: string
<i>ipv4_next_hop</i>	Type: ipaddr
<i>ipv6_next_hop</i>	Type: ipv6addr
<i>nhlfe_frr_status</i>	Type: string
<i>nhlfe_stale_flag</i>	Type: string
<i>nhlfe_p2p_flag</i>	Type: string
<i>in_packets</i>	Type: uinteger
<i>in_bytes</i>	Type: uinteger
<i>out_packets</i>	Type: uinteger
<i>out_bytes</i>	Type: uinteger

Command Modes

- /exec

show mpls switching clients

show mpls switching clients [**__readonly__** **TABLE_client** *pib-name pib-index pib-uuid pib-sap stale-time pib-flag stale-due reg-msg conv-msg inv-conv fec-msg fec-add fec-del last-xid fec-ack*]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
clients	Display ULIB client components
__readonly__	
TABLE_client	
<i>pib-name</i>	Type: string Name of the client(pib)
<i>pib-index</i>	Type: uinteger PIB Index
<i>pib-uuid</i>	Type: uinteger PIB UUID
<i>pib-sap</i>	Type: uinteger MTS SAP for the pib
<i>stale-time</i>	Type: uinteger Stale time
<i>pib-flag</i>	Type: uinteger Flags set by the pib
<i>stale-due</i>	Type: string Stale timer due in
<i>reg-msg</i>	Type: uinteger Number of Registration Message
<i>conv-msg</i>	Type: uinteger Number of Converge Message

<i>inv-conv</i>	Type: uinteger Number of Invalid Convergence message
<i>fec-msg</i>	Type: uinteger Number of FEC messages
<i>fec-add</i>	Type: uinteger Number of FEC Add messages
<i>fec-del</i>	Type: uinteger Number of FEC delete messages
<i>last-xid</i>	Type: uinteger Last XID
<i>fec-ack</i>	Type: uinteger Number of FEC Ack messages sent

Command Modes

- /exec

show mroute

```
show {l2| fabricpath} mroute {[vdc-omf] [resolved]} [vlan vlanid] {[omf| [flood]] [source {srcaddr|
v6srcaddr| macsrcaddr}] [group {groupaddr| v6groupaddr| macgroupaddr}] [resolved] [ftag ftag-id] [hex]}
[__readonly__ [ hex2 ] {TABLE_gr [ ftag ] vlan_id [v4src v4grp macgrp| v6src v6grp macsrc] [omf|flood]
rt-uptime owners num_nh TABLE_nh {nh_if| nh_sw} [ stale ] [ exclude ] [ svi ] flags nh-uptime owner rt_type|
done| start}]
```

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
mroute	Show multicast route database
vdc-omf	Display vdc omf route
vlan	Show information for a vlan
omf	Show catch-all entry consisting of mroute ports
flood	Display vlan flood route
ftag	Show ftag number
source	Show (s, g) source IP address
group	Show group address
hex	Display switch-ids in hex
<i>vlanid</i>	Type: uinteger min: 1 max: 4096 Vlan value
<i>ftag-id</i>	Type: uinteger min: 1 max: 1024 ftag id
<i>groupaddr</i>	Type: ipaddr Group address
<i>v6groupaddr</i>	Type: ipv6addr IPv6 Group address

<i>macgroupaddr</i>	Type: string MAC Group address
<i>srcaddr</i>	Type: ipaddr Source address
<i>v6srcaddr</i>	Type: ipv6addr IPv6 source address
<i>macsrcaddr</i>	Type: string MAC source address
resolved	Resolve switchid nexthops into the underlying interfaces
__readonly__	Read Only
<i>hex2</i>	Type: bool
TABLE_gr	
<i>vlan_id</i>	Type: uinteger min: 1 max: 4096 VLAN
<i>rt-uptime</i>	Type: duration Time route was created
<i>num_nh</i>	Type: uinteger Number of next-hops
<i>owners</i>	Type: uinteger Owners
<i>v4src</i>	Type: ipaddr IPv4 Multicast traffic source
<i>v4grp</i>	Type: ipaddr IPv4 Multicast Group address
<i>v6src</i>	Type: ipv6addr IPv6 Multicast traffic source
<i>v6grp</i>	Type: ipv6addr IPv6 Multicast Group address

<i>macsrc</i>	Type: string MAC Multicast traffic source
<i>macgrp</i>	Type: string MAC Multicast Group address
<i>ftag</i>	Type: uinteger min: 1 max: 1024 ftag id
<i>omf</i>	Type: bool Is OMF route
<i>flood</i>	Type: bool Is flood to vlan route
TABLE_nh	
<i>nh_if</i>	Type: interface The next hop interface
<i>nh_sw</i>	Type: uinteger min: 1 max: 4096 The next hop switch id
<i>owner</i>	Type: uinteger Owner
<i>flags</i>	Type: uinteger flags
<i>nh-uptime</i>	Type: duration Time nexthop was created
<i>rt_type</i>	Type: uinteger Route type
<i>stale</i>	Type: bool Is stale
<i>exclude</i>	Type: bool exclude from post routing replication
<i>svi</i>	Type: bool SVI interface

<i>done</i>	Type: uinteger Done displaying route data
<i>start</i>	Type: bool Print header

Command Modes

- /exec

show mroute flood vlan

show {l2| fabricpath} mroute flood vlan *vlan_id* [**__readonly__** *vdc_id* *if_count* **TABLE_if** *if_member*]

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
mroute	Show multicast route database
flood	Display vlan flood route
vlan	Vlan
<i>vlan_id</i>	Type: integer min: 1 max: 4094 Enter Vlan id
__readonly__	
<i>vdc_id</i>	Type: integer VDC Id
<i>if_count</i>	Type: integer Number of Interfaces
TABLE_if	
<i>if_member</i>	Type: interface Interface

Command Modes

- /exec

show mroute summary

show {l2| fabricpath} **mroute summary** [**detail**] [**__readonly__** *total star_g s_g s_g_no_star_g flood omf*
TABLE_vlan *vlan_id vlan_flood vlan_omf vlan_star_g vlan_s_g vlan_s_g_no_star_g vlan_total*]

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
mroute	Show multicast route database
summary	Show multicast route database summary
detail	Show per vlan detail
__readonly__	Read Only
<i>total</i>	Type: uinteger Total number of multicast routes
<i>star_g</i>	Type: uinteger Total number of multicast (*, g) routes
<i>s_g</i>	Type: uinteger Total number of multicast (s, g) routes
<i>s_g_no_star_g</i>	Type: uinteger Number of multicast (s, g) route with no corresponding (*, g)
<i>flood</i>	Type: uinteger Total number of flood-to-vlan routes
<i>omf</i>	Type: uinteger Total number of omf routes
TABLE_vlan	
<i>vlan_id</i>	Type: uinteger VLAN ID for summary info
<i>vlan_flood</i>	Type: uinteger flood routes per vlan

<i>vlan_omf</i>	Type: uinteger OMF routes per vlan
<i>vlan_star_g</i>	Type: uinteger (*G) routes per vlan
<i>vlan_s_g</i>	Type: uinteger (S,G) routes per VLAN
<i>vlan_s_g_no_star</i>	Type: uinteger (S,G) routes w/o (*,G) per VLAN
<i>vlan_total</i>	Type: uinteger Total multicast routes in VLAN

Command Modes

- /exec

show multicast ftag

show {l2| fabricpath} **multicast ftag** [*ftag-id*] [**__readonly__** **TABLE_topo** *id topo_config* **TABLE_ftag** *ftag topo_id config*]

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
multicast	Multicast information
ftag	ftag number
<i>ftag-id</i>	Type: uinteger min: 1 max: 1024 ftag id
__readonly__	Read Only
TABLE_topo	
<i>id</i>	Type: string topo id
<i>topo_config</i>	Type: uinteger program ftag star route
TABLE_ftag	
<i>ftag</i>	Type: uinteger min: 1 max: 1024 ftag
<i>topo_id</i>	Type: string topo id
<i>config</i>	Type: uinteger ftag config

Command Modes

- /exec

show multicast trees

```
show {l2| fabricpath} multicast trees [topo topo-id] [ftag ftag-id] [hex] [__readonly__ [ hex2 ]
{TABLE_swid ftag topo_id sw_id rt-uptime owners num_nh TABLE_nh [preferred ] {nh_if| nh_sw} [ stale ]
distance nh-uptime owner flags rt_type| start| done}]
```

Syntax Description

show	Show running system information
l2	Layer2 information
fabricpath	fabricpath information
multicast	Multicast information
trees	Show the broadcast/multicast tree database
topo	Show topo instance
ftag	Show ftag number
hex	Display switch-ids in hex
<i>topo-id</i>	Type: uinteger min: 0 max: 64 topo id
<i>ftag-id</i>	Type: uinteger min: 1 max: 1024 ftag id
__readonly__	Read Only
<i>hex2</i>	Type: bool
TABLE_swid	
<i>sw_id</i>	Type: uinteger min: 1 max: 4096 switch id
<i>topo_id</i>	Type: uinteger min: 0 max: 64 topo id

<i>flag</i>	Type: uinteger min: 1 max: 1024 ftag id
<i>rt-uptime</i>	Type: duration Time route was created
<i>num_nh</i>	Type: uinteger Number of next-hops
<i>owners</i>	Type: uinteger Owners
TABLE_nh	
<i>preferred</i>	Type: bool Is preferred interface
<i>nh_if</i>	Type: interface The next hop interface
<i>nh_sw</i>	Type: uinteger min: 1 max: 4096 The next hop switch id
<i>owner</i>	Type: uinteger Owner
<i>flags</i>	Type: uinteger flags
<i>rt_type</i>	Type: uinteger Route type
<i>nh-uptime</i>	Type: duration Time nexthop was created
<i>distance</i>	Type: uinteger admin distance
<i>stale</i>	Type: bool Is stale
<i>start</i>	Type: bool
<i>done</i>	Type: uinteger

Command Modes

- /exec

show mvpn bgp

`show mvpn bgp { mdt-safi | auto-discovery } [mdt-source src-addr] [__readonly__ TABLE_entry bgp_rd mdt_src mdt_grp local]`

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information <i>Not available in this release.</i>
bgp	Display BGP related information
mdt-safi	Display Auto-discovered BGP MDT-SAFI database
auto-discovery	Display Auto-discovered BGP MDT-SAFI database
mdt-source	Source address of MVPN neighbor
<i>src-addr</i>	Type: ipaddr Source Address
__readonly__	
TABLE_entry	
<i>bgp_rd</i>	Type: string
<i>mdt_src</i>	Type: ipaddr
<i>mdt_grp</i>	Type: ipaddr
<i>local</i>	Type: string

Command Modes

- /exec

show mvpn mdt encap

show mvpn mdt encap [**vrf** {*vrf-name*|*vrf-known-name*|**all**}] [**__readonly__** **TABLE_vrf** *out_context* **TABLE_encap** *encap_index* *mdt_grp* *mdt_src* *mdt_src_if*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information <i>Not available in this release.</i>
mdt	Display MDT information
encap	Display MDT Encap table
vrf	Display per-VRF information
<i>vrf-name</i>	Type: vrf pattern: [-a-zA-Z0-9_ ;\$#@]* antipattern: vrf detail interface definition context forwarding member all l2-vrf topology passive length: 32 VRF name
<i>vrf-known-name</i>	Type: vrf Known VRF name
all	Display information for all VRFs
__readonly__	
TABLE_vrf	
<i>out_context</i>	Type: string
TABLE_encap	
<i>encap_index</i>	Type: uinteger
<i>mdt_grp</i>	Type: ipaddr
<i>mdt_src</i>	Type: ipaddr
<i>mdt_src_if</i>	Type: interface

Command Modes

- /exec

show mvpn mdt route

`show mvpn mdt route [detail] [__readonly__ TABLE_vrf out_context TABLE_mroute src_addr grp_addr ref_count]`

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information <i>Not available in this release.</i>
mdt	Display MDT information
route	Display MDT route information
detail	Display detailed information
__readonly__	
TABLE_vrf	
<i>out_context</i>	Type: string
TABLE_mroute	
<i>src_addr</i>	Type: ipaddr
<i>grp_addr</i>	Type: ipaddr
<i>ref_count</i>	Type: uinteger

Command Modes

- /exec

show mvpn snmp mib genericTable

show mvpn snmp mib genericTable [*mplsVpnVrfName-in*] [**__readonly__** **TABLE_ciscoMvpnGenericTable** *mplsVpnVrfName-out* *ciscoMvpnGenOperStatusChange* *ciscoMvpnGenOperChangeTime* *ciscoMvpnGenAssociatedInterfaces* *ciscoMvpnGenRowStatus*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
genericTable	Show MVPN Generic Table
<i>mplsVpnVrfName-in</i>	Type: vrf mplsVpnVrfName
__readonly__	
TABLE_ciscoMvpnGenericTable	
<i>mplsVpnVrfName-out</i>	Type: string mib table index mplsVpnVrfName
<i>ciscoMvpnGenOperStatusChange</i>	Type: integer mib object ciscoMvpnGenOperStatusChange
<i>ciscoMvpnGenOperChangeTime</i>	Type: duration mib object ciscoMvpnGenOperChangeTime
<i>ciscoMvpnGenAssociatedInterfaces</i>	Type: uinteger mib object ciscoMvpnGenAssociatedInterfaces
<i>ciscoMvpnGenRowStatus</i>	Type: integer mib object ciscoMvpnGenRowStatus

Command Modes

- /exec

show mvpn snmp mib mvpnBgpMdtUpdateTable

show mvpn snmp mib mvpnBgpMdtUpdateTable [*ciscoMvpnBgpMdtUpdGrpAddrType-in ciscoMvpnBgpMdtUpdateGroup-in ciscoMvpnBgpMdtUpdSrcAddrType-in ciscoMvpnBgpMdtUpdateSource-in*] [**__readonly__** **TABLE_ciscoMvpnBgpMdtUpdateTable** *ciscoMvpnBgpMdtUpdGrpAddrType-out ciscoMvpnBgpMdtUpdateGroup-out ciscoMvpnBgpMdtUpdateRd ciscoMvpnBgpMdtUpdSrcAddrType-out ciscoMvpnBgpMdtUpdateSource-out ciscoMvpnBgpMdtUpdOrigAddrType ciscoMvpnBgpMdtUpdateOriginator ciscoMvpnBgpMdtUpdNhAddrType ciscoMvpnBgpMdtUpdateNextHop*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnBgpMdtUpdateTable	show mib table mvpnBgpMdtUpdateTable
<i>ciscoMvpnBgpMdtUpdGrpAddrType-in</i>	Type: integer Data MDT Group Address Type
<i>ciscoMvpnBgpMdtUpdateGroup-in</i>	Type: ipaddr Data MDT group address in the MDT join TLV
<i>ciscoMvpnBgpMdtUpdSrcAddrType-in</i>	Type: integer MDT mulitcast routing enty source address type
<i>ciscoMvpnBgpMdtUpdateSource-in</i>	Type: ipaddr Souce adres for the MDT mulitcast routing enty created following the receipt of MDT join TLV
__readonly__	
TABLE_ciscoMvpnBgpMdtUpdateTable	
<i>ciscoMvpnBgpMdtUpdGrpAddrType-out</i>	Type: integer mib table index ciscoMvpnBgpMdtUpdGrpAddrType
<i>ciscoMvpnBgpMdtUpdateGroup-out</i>	Type: ipaddr mib table index ciscoMvpnBgpMdtUpdateGroup
<i>ciscoMvpnBgpMdtUpdateRd</i>	Type: string mib object ciscoMvpnBgpMdtUpdateRd

<i>ciscoMvpnBgpMdtUpdSrcAddrType-out</i>	Type: integer mib table index ciscoMvpnBgpMdtUpdSrcAddrType
<i>ciscoMvpnBgpMdtUpdateSource-out</i>	Type: ipaddr mib table index ciscoMvpnBgpMdtUpdateSource
<i>ciscoMvpnBgpMdtUpdOrigAddrType</i>	Type: integer mib object ciscoMvpnBgpMdtUpdOrigAddrType
<i>ciscoMvpnBgpMdtUpdateOriginator</i>	Type: ipaddr mib object ciscoMvpnBgpMdtUpdateOriginator
<i>ciscoMvpnBgpMdtUpdNhAddrType</i>	Type: integer mib object ciscoMvpnBgpMdtUpdNhAddrType
<i>ciscoMvpnBgpMdtUpdateNexthop</i>	Type: ipaddr mib object ciscoMvpnBgpMdtUpdateNexthop

Command Modes

- /exec

show mvpn snmp mib mvpnMdtDataTable

```
show mvpn snmp mib mvpnMdtDataTable [ mplsVpnVrfName-in ] [ __readonly__
TABLE_ciscoMvpnMdtDataTable mplsVpnVrfName-out ciscoMvpnMdtDataRangeAddrType
ciscoMvpnMdtDataRangeAddress ciscoMvpnMdtDataWildcardType ciscoMvpnMdtDataWildcardBits
ciscoMvpnMdtDataThreshold ciscoMvpnMdtDataRowStatus]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDataTable	show mib table mvpnMdtDataTable
<i>mplsVpnVrfName-in</i>	Type: vrf pattern: [-a-zA-Z0-9_.;\$#@]* antipattern: vrf detail interface definition context forwarding member all l2-vrf topology passive length: 32 VRF name
<u>__readonly__</u>	
TABLE_ciscoMvpnMdtDataTable	
<i>mplsVpnVrfName-out</i>	Type: string mib table index mplsVpnVrfName
<i>ciscoMvpnMdtDataRangeAddrType</i>	Type: integer mib object ciscoMvpnMdtDefaultAddrType
<i>ciscoMvpnMdtDataRangeAddress</i>	Type: ipaddr mib object ciscoMvpnMdtDataRangeAddress
<i>ciscoMvpnMdtDataWildcardType</i>	Type: integer mib object ciscoMvpnMdtDataWildcardType
<i>ciscoMvpnMdtDataWildcardBits</i>	Type: ipaddr mib object ciscoMvpnMdtDataWildcardBits
<i>ciscoMvpnMdtDataThreshold</i>	Type: integer mib object ciscoMvpnMdtDataThreshold

<i>ciscoMvpnMdtDataRowStatus</i>	Type: integer
	mib object ciscoMvpnMdtDataRowStatus

Command Modes

- /exec

show mvpn snmp mib mvpnMdtDefaultTable

show mvpn snmp mib mvpnMdtDefaultTable [*mplsVpnVrfName-in*] [**__readonly__** **TABLE_ciscoMvpnMdtDefaultTable** *mplsVpnVrfName-out* *ciscoMvpnMdtDefaultAddrType* *ciscoMvpnMdtDefaultAddress* *ciscoMvpnMdtEncapsType* *ciscoMvpnMdtDefaultRowStatus*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDefaultTable	show mib table ciscoMvpnMdtDefaultTable
<i>mplsVpnVrfName-in</i>	Type: vrf mplsVpnVrfName
__readonly__	
TABLE_ciscoMvpnMdtDefaultTable	
<i>mplsVpnVrfName-out</i>	Type: string mib table index mplsVpnVrfName
<i>ciscoMvpnMdtDefaultAddrType</i>	Type: integer mib object ciscoMvpnMdtDefaultAddrType
<i>ciscoMvpnMdtDefaultAddress</i>	Type: ipaddr mib object ciscoMvpnMdtDefaultAddress
<i>ciscoMvpnMdtEncapsType</i>	Type: integer mib object ciscoMvpnMdtEncapsType
<i>ciscoMvpnMdtDefaultRowStatus</i>	Type: integer mib object ciscoMvpnMdtDefaultRowStatus

Command Modes

- /exec

show mvpn snmp mib mvpnMdtJnRcvTable

show mvpn snmp mib mvpnMdtJnRcvTable [*mplsVpnVrfName-in* *ciscoMvpnMdtJnRcvGrpAddrType-in* *ciscoMvpnMdtJnRcvGroup-in* *ciscoMvpnMdtJnRcvSrcAddrType-in* *ciscoMvpnMdtJnRcvSource-in*] [**__readonly__** **TABLE_ciscoMvpnMdtJnRcvTable** *mplsVpnVrfName-out* *ciscoMvpnMdtJnRcvGrpAddrType-out* *ciscoMvpnMdtJnRcvGroup-out* *ciscoMvpnMdtJnRcvSrcAddrType-out* *ciscoMvpnMdtJnRcvSource-out* *ciscoMvpnMdtJnRcvUpTime* *ciscoMvpnMdtJnRcvExpTime*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnRcvTable	show mib table ciscoMvpnMdtJnRcvTable
<i>mplsVpnVrfName-in</i>	Type: string pattern: [-a-zA-Z0-9_.;\$#@]* antipattern: vrf detail interface definition context forwarding member all l2-vrf topology passive length: 32 VRF name
<i>ciscoMvpnMdtJnRcvGrpAddrType-in</i>	Type: integer Data MDT group address type
<i>ciscoMvpnMdtJnRcvGroup-in</i>	Type: ipaddr Data MDT group address in the MDT join TLV
<i>ciscoMvpnMdtJnRcvSrcAddrType-in</i>	Type: integer Source address type
<i>ciscoMvpnMdtJnRcvSource-in</i>	Type: ipaddr Souce adres for the MDT mulitcast routing enty created following the receipt of MDT join TLV
__readonly__	
TABLE_ciscoMvpnMdtJnRcvTable	
<i>mplsVpnVrfName-out</i>	Type: string mib table index mplsVpnVrfName

<i>ciscoMvpnMdtJnRcvGrpAddrType-out</i>	Type: integer mib table index ciscoMvpnMdtJnRcvGrpAddrType
<i>ciscoMvpnMdtJnRcvGroup-out</i>	Type: ipaddr mib table index ciscoMvpnMdtJnRcvGroup
<i>ciscoMvpnMdtJnRcvSrcAddrType-out</i>	Type: integer mib table index ciscoMvpnMdtJnRcvSrcAddrType
<i>ciscoMvpnMdtJnRcvSource-out</i>	Type: ipaddr mib table index ciscoMvpnMdtJnRcvSource
<i>ciscoMvpnMdtJnRcvUpTime</i>	Type: duration mib object ciscoMvpnMdtJnRcvUpTime
<i>ciscoMvpnMdtJnRcvExpTime</i>	Type: duration mib object ciscoMvpnMdtJnRcvExpTime

Command Modes

- /exec

show mvpn snmp mib mvpnMdtJnSendTable

```
show mvpn snmp mib mvpnMdtJnSendTable [mplsVpnVrfName-in ciscoMvpnMdtJnSendGrpAddrType-in
ciscoMvpnMdtJnSendGroup-in ciscoMvpnMdtJnSendSrcAddrType-in ciscoMvpnMdtJnSendSource-in]
[__readonly__ TABLE_ciscoMvpnMdtJnSendTable mplsVpnVrfName-out
ciscoMvpnMdtJnSendGrpAddrType-out ciscoMvpnMdtJnSendGroup-out ciscoMvpnMdtJnSendSrcAddrType-out
ciscoMvpnMdtJnSendSource-out ciscoMvpnMdtJnSendMdtGroup ciscoMvpnMdtJnSendMdtRefCt]
```

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnSendTable	show mib table ciscoMvpnMdtJnSendTable
<i>mplsVpnVrfName-in</i>	Type: vrf pattern: [-a-zA-Z0-9_.;\$#@]* antipattern: vrf detail interface definition context forwarding member all l2-vrf topology passive length: 32 VRF name
<i>ciscoMvpnMdtJnSendGrpAddrType-in</i>	Type: integer Data MDT group address type
<i>ciscoMvpnMdtJnSendGroup-in</i>	Type: ipaddr Data MDT group address in the MDT join TLV
<i>ciscoMvpnMdtJnSendSrcAddrType-in</i>	Type: integer Source address type
<i>ciscoMvpnMdtJnSendSource-in</i>	Type: ipaddr Souce adres for the MDT mulitcast routing enty created following the receipt of MDT join TLV
<u>__readonly__</u>	
TABLE_ciscoMvpnMdtJnSendTable	
<i>mplsVpnVrfName-out</i>	Type: string mib table index mplsVpnVrfName

<i>ciscoMvpnMdtJnSendGrpAddrType-out</i>	Type: integer mib table index ciscoMvpnMdtJnSendGrpAddrType
<i>ciscoMvpnMdtJnSendGroup-out</i>	Type: ipaddr mib table index ciscoMvpnMdtJnSendGroup
<i>ciscoMvpnMdtJnSendSrcAddrType-out</i>	Type: integer mib table index ciscoMvpnMdtJnSendSrcAddrType
<i>ciscoMvpnMdtJnSendSource-out</i>	Type: ipaddr mib table index ciscoMvpnMdtJnSendSource
<i>ciscoMvpnMdtJnSendMdtGroup</i>	Type: ipaddr mib object ciscoMvpnMdtJnSendMdtGroup
<i>ciscoMvpnMdtJnSendMdtRefCt</i>	Type: uinteger mib object ciscoMvpnMdtJnSendMdtRefCt

Command Modes

- /exec

show mvpn snmp mib mvpnMrouteMdtTable

show mvpn snmp mib mvpnMrouteMdtTable [*mplsVpnVrfName-in* *ciscoMvpnMrouteMvrfGrpAddrType-in* *ciscoMvpnMrouteMvrfGroup-in* *ciscoMvpnMrouteMvrfSrcAddrType-in* *ciscoMvpnMrouteMvrfSource-in* *ciscoMvpnMrouteUpDownStreamInfo-in*] [**__readonly__** **TABLE_ciscoMvpnMrouteMdtTable** *mplsVpnVrfName-out* *ciscoMvpnMrouteMvrfGrpAddrType-out* *ciscoMvpnMrouteMvrfGroup-out* *ciscoMvpnMrouteMvrfSrcAddrType-out* *ciscoMvpnMrouteMvrfSource-out* *ciscoMvpnMrouteUpDownStreamInfo-out* *ciscoMvpnMrouteMdtGrpAddrType* *ciscoMvpnMrouteMdtGroup* *ciscoMvpnMrouteMdtType*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMrouteMdtTable	show mib table mvpnMrouteMdtTable
<i>mplsVpnVrfName-in</i>	Type: vrf pattern: [-a-zA-Z0-9_:\$#@]* antipattern: vrf detail interface definition context forwarding member all I2-vrf topology passive length: 32 VRF name
<i>ciscoMvpnMrouteMvrfGrpAddrType-in</i>	Type: integer Group address type of multicast routing entry
<i>ciscoMvpnMrouteMvrfGroup-in</i>	Type: ipaddr Group address of multicast routing entry
<i>ciscoMvpnMrouteMvrfSrcAddrType-in</i>	Type: integer Source address type
<i>ciscoMvpnMrouteMvrfSource-in</i>	Type: ipaddr Source address of multicast routing entry
<i>ciscoMvpnMrouteUpDownStreamInfo-in</i>	Type: integer if PE is Upstream or downstream router for the multicast routing entry
__readonly__	

TABLE_ciscoMvpnMrouteMdtTable

<i>mplsVpnVrfName-out</i>	Type: string mib table index mplsVpnVrfName
<i>ciscoMvpnMrouteMvrfGrpAddrType-out</i>	Type: integer mib table index ciscoMvpnMrouteMvrfGrpAddrType
<i>ciscoMvpnMrouteMvrfGroup-out</i>	Type: ipaddr mib table index ciscoMvpnMrouteMvrfGroup
<i>ciscoMvpnMrouteMvrfSrcAddrType-out</i>	Type: integer mib table index ciscoMvpnMrouteMvrfSrcAddrType
<i>ciscoMvpnMrouteMvrfSource-out</i>	Type: ipaddr mib table index ciscoMvpnMrouteMvrfSource
<i>ciscoMvpnMrouteUpDownStreamInfo-out</i>	Type: integer mib table index ciscoMvpnMrouteUpDownStreamInfo
<i>ciscoMvpnMrouteMdtGrpAddrType</i>	Type: integer mib object ciscoMvpnMrouteMdtGrpAddrType
<i>ciscoMvpnMrouteMdtGroup</i>	Type: ipaddr mib object ciscoMvpnMrouteMdtGroup
<i>ciscoMvpnMrouteMdtType</i>	Type: integer mib object ciscoMvpnMrouteMdtType

Command Modes

- /exec

show mvpn snmp mib mvpnMvrfNumber

show mvpn snmp mib mvpnMvrfNumber [**__readonly__** *ciscoMvpnMvrfNumber*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables/scalars
mvpnMvrfNumber	Show number of MVRFs
__readonly__	Read Only
<i>ciscoMvpnMvrfNumber</i>	Type: integer mib object ciscoMvpnMvrfNumber

Command Modes

- /exec

show mvpn snmp mib mvpnNotificationEnable

show mvpn snmp mib mvpnNotificationEnable [**__readonly__** *ciscoMvpnNotificationEnable*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables/scalars
mvpnNotificationEnable	Show value of ciscoMvpnNotificationEnable
__readonly__	Read Only
<i>ciscoMvpnNotificationEnable</i>	Type: integer mib object ciscoMvpnNotificationEnable

Command Modes

- /exec

show mvpn snmp mib mvpnTunnelTable

show mvpn snmp mib mvpnTunnelTable [*ifIndex-in*] [**__readonly__** **TABLE_ciscoMvpnTunnelTable** *ifIndex-out* *ciscoMvpnTunnelName* *ciscoMvpnTunnelMvrf*]

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnTunnelTable	show mib table mvpnTunnelTable
<i>ifIndex-in</i>	Type: integer Interface Index
__readonly__	
TABLE_ciscoMvpnTunnelTable	
<i>ifIndex-out</i>	Type: integer mib table index ifIndex
<i>ciscoMvpnTunnelName</i>	Type: string mib object ciscoMvpnTunnelName
<i>ciscoMvpnTunnelMvrf</i>	Type: string mib object ciscoMvpnTunnelMvrf

Command Modes

- /exec