M Show Commands

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

Syntax Description

show	Show running system information
mac-list	Show mac-lists
mac_list_name	(Optional) Name of mac list
seq	(Optional) Sequence number
seq_no	(Optional) Sequence number
mac_addr	(Optional) MAC address
mac_mask	(Optional) MAC mask
__readonly__	(Optional)
TABLE_mac_list	(Optional)
name	(Optional)
seq	(Optional)
action	(Optional)
rule	(Optional)

Command Mode

- /exec

show mac address-table multicast

show mac address-table multicast [vlan <vlan>] [__readonly__ { TABLE_vlan <vlan-id> <mac-addr> <type> <age> <oifs> }]

Syntax Description

Syntax Description

show	Show running system information
mac	MAC configuration commands
address-table	MAC Address Table
multicast	Multicast MAC Table entries
vlan	(Optional) VLAN/BD
vlan	(Optional) VLAN/BD
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
mac-addr	(Optional)
type	(Optional)
age	(Optional)
oifs	(Optional)

Command Mode

- /exec

show mac vdc

show mac vdc <vdc_id> [__readonly__ <vdc_id> <mac_address>]

Syntax Description

Syntax Description

show	show
mac	show management port mac address of the given vdc
vdc	show management port mac address of this vdc id
vdc_id	please enter vdc id
__readonly__	(Optional)
vdc_id	(Optional)
mac_address	(Optional)

Command Mode

- /exec

show macsec-policy

show macsec-policy [<policy_name>] [__readonly__ <name> <cipher_suite> <conf_offset> <keyserver_priority> <security_policy> <window_size>]

Syntax Description

Syntax Description

show	Show running system information
macsec-policy	Show macsec policy information
policy_name	(Optional) Name of Policy
__readonly__	(Optional)
name	(Optional) Policy Name
cipher_suite	(Optional) Cipher Suite
conf_offset	(Optional) Confidentiality Offset
keyserver_priority	(Optional) KeyServer Priority
security_policy	(Optional) Security Policy
window_size	(Optional) Window Size

Command Mode

- /exec

show macsec mka summary

show macsec mka summary

Syntax Description

Syntax Description

show	Show running system information
macsec	Show macsec information
mka	Show mka information
summary	Show mka summary information

Command Mode

- /exec

show maintenance on-reload reset-reasons

show maintenance on-reload reset-reasons [__readonly__ [TABLE_reset_reason <reset_reason>] <rr_bitmap>]

Syntax Description

Syntax Description

show	Show running system information
maintenance	maintenance
on-reload	on reload maintenance mode configuration
reset-reasons	system reset reasons
__readonly__	(Optional)
TABLE_reset_reason	(Optional)
rr_bitmap	(Optional) reset reason bitmap
reset_reason	(Optional) system reset reason

Command Mode

- /exec

show maintenance profile

show maintenance profile [<mode>] [__readonly__ TABLE_profile <name> TABLE_cfg <cfg>]

Syntax Description

Syntax Description

show	Show running system information
maintenance	maintenance
profile	maintenance profile
mode	(Optional)
__readonly__	(Optional)
TABLE_profile	(Optional)
name	(Optional) profile name
TABLE_cfg	(Optional)
cfg	(Optional) profile config

Command Mode

- /exec

show maintenance snapshot-delay

show maintenance snapshot-delay [__readonly__ <delay>]

Syntax Description

Syntax Description

show	Show running system information
maintenance	maintenance
snapshot-delay	after_maintenance snapshot delay value
__readonly__	(Optional)
delay	(Optional) delay value in seconds

Command Mode

- /exec

show maintenance timeout

show maintenance timeout [__readonly__ <timeout>]

Syntax Description

Syntax Description

show	Show running system information
maintenance	maintenance
timeout	timeout value
__readonly__	(Optional)
timeout	(Optional) timeout value

Command Mode

- /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> <dest-port-range-end>] [<dest-port>] } }]

Syntax Description

Syntax Description

show	Show running system information
mgmt-policy	PM Management policy
policy-name	Name of the policy
all	Show all policies
__readonly__	(Optional)
TABLE_mgmt_policy	(Optional) Management policy Details
mgt-pol-name	(Optional)
source-ip	(Optional)
source-mask	(Optional)
src-port-rangestart	(Optional)
src-port-range-end	(Optional)
source-port	(Optional)
dst-port-rangestart	(Optional)
dest-port-range-end	(Optional)
dest-port	(Optional)

Command Mode

- /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

Syntax Description

show	Show running system information
module	Show module information
module	(Optional) Enter module number
s0	(Optional) Show xbar information
santa-cruz-range	(Optional) please enter the xbar number
fabric	(Optional) Show fabric information
__readonly__	(Optional)
TABLE_modinfo	(Optional) Show Module info
modinf	(Optional) Module
ports	(Optional) Num Ports
modtype	(Optional) Module Type
model	(Optional) Model
status	(Optional) Status
TABLE_modpwrinfo	(Optional) Mod Pwr Info
modpwr	(Optional) Module
pwrstat	(Optional) Power Status
reason	(Optional) Reason
TABLE_modwwninfo	(Optional) Mod WWN Info
modwwn	(Optional) Module
sw	(Optional) SW Ver
hw	(Optional) HW Ver

slottype	(Optional) Slot
TABLE_modapplinfo	(Optional) Mod Appl image info
modappl	(Optional) Module
desc	(Optional) Image desc
applver	(Optional) Version
TABLE_modmacinfo	(Optional) Mod MAC Info
modmac	(Optional) Module
mac	(Optional) MAC
serialnum	(Optional) Serial Num
TABLE_moddiaginfo	(Optional) Mod diag info
mod	(Optional) Module
diagstatus	(Optional) Diag status
TABLE_xbarinfo	(Optional) Show xbar info
xbarinf	(Optional) Module
xbarports	(Optional) Num Ports
xbartype	(Optional) Module Type
xbarmodel	(Optional) Model
xbarstatus	(Optional) Status
TABLE_xbarpwrinfo	(Optional) Xbar Pwr Info
xbarpwr	(Optional) Module
xbarpwrstat	(Optional) Power Status
xbarreason	(Optional) Reason
TABLE_xbarwwninfo	(Optional) Xbar WWN Info
xbarwwn	(Optional) Module
xbarsw	(Optional) SW Ver
xbarhw	(Optional) HW Ver
xbarwwnstr	(Optional) WWN
TABLE_xbarmacinfo	(Optional) Xbar MAC Info
xbarmac	(Optional) Module

xbarmacaddr	(Optional) MAC
xbarserialnum	(Optional) Serial Num

Command Mode

- /exec

show module bandwidth-fairness

show module <module> bandwidth-fairness [__readonly__ { TABLE_fairness <statement> }]

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
module	Enter module number
bandwidth-fairness	Show bandwidth fairness status
__readonly__	(Optional)
TABLE_fairness	(Optional)
statement	(Optional)

Command Mode

- /exec

show module internal activity

show module internal activity { module1 <module> | <s0> <santa-cruz-range> }

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
activity	Show internal module activity log
module1	Show per-module activity log
module	Enter module number
s0	Show xbar activity log
santa-cruz-range	please enter the xbar number

Command Mode

- /exec

show module internal all

show module internal all [{ module1 <module> | <s0> <santa-cruz-range> }]

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
all	Show all internal module information
module1	(Optional) Show internal module information
module	(Optional) Enter module number
s0	(Optional) Show internal xbar information
santa-cruz-range	(Optional) please enter the xbar number

Command Mode

- /exec

show module internal errors

show module internal [event-history] errors

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
event-history	(Optional) Show various event logs of module
errors	Show error logs of module

Command Mode

- /exec

show module internal event-history

show module internal event-history <s0> <santa-cruz-range>

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
event-history	Show various event logs of module
s0	Show event log of a xbar
santa-cruz-range	please enter the xbar number

Command Mode

- /exec

show module internal event-history module1

show module internal event-history module1 <module>

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
event-history	Show various event logs of module
module1	Show event log of a module
module	Enter module number

Command Mode

- /exec

show module internal event-history stats

show module internal event-history stats

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
event-history	Show various event logs of module
stats	Show MODULE state transition stats

Command Mode

- /exec

show module internal exceptionlog

show module internal exceptionlog

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
exceptionlog	exception log information

Command Mode

- /exec

show module internal exceptionlog internal1 event-history all

show module internal exceptionlog internal1 event-history all

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
exceptionlog	exception log information
internal1	shows expl internal info
event-history	Show expl internal event history
all	Show all expl internal information

Command Mode

- /exec

show module internal exceptionlog internal1 event-history errors

show module internal exceptionlog internal1 event-history errors

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
exceptionlog	exception log information
internal1	shows expl internal info
event-history	Show expl internal event history
errors	Show expl internal error history

Command Mode

- /exec

show module internal exceptionlog internal1 event-history msgs

show module internal exceptionlog internal1 event-history msgs

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
exceptionlog	exception log information
internal1	shows expl internal info
event-history	Show expl internal event history
msgs	Show expl internal message history

Command Mode

- /exec

show module internal exceptionlog module1

show module internal exceptionlog module1 <module>

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
exceptionlog	exception log information
module1	per module exception log information
module	please enter module number

Command Mode

- /exec

show module internal info

show module internal info [module1 <module>]

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
info	Show internal module information
module1	(Optional) Show per-module internal information
module	(Optional) Enter module number

Command Mode

- /exec

show module internal lock

show module internal lock

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
lock	Show lock logs of lcm

Command Mode

- /exec

show module internal mem-stats

show module internal mem-stats [detail]

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
mem-stats	Show memory allocation statistics of module
detail	(Optional) Show detail memstats for module

Command Mode

- /exec

show module internal msgs

show module internal [event-history] msgs

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
event-history	(Optional) Show various event logs of module
msgs	Show message logs of module

Command Mode

- /exec

show module internal sequence lc

show module internal sequence lc

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
sequence	Show sequence of interaction by module
lc	Show sequence of interaction for linecard module

Command Mode

- /exec

show module internal sequence sup

show module internal sequence sup

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
sequence	Show sequence of interaction by module
sup	Show sequence of interaction for supervisor

Command Mode

- /exec

show module internal sw info

show module internal sw info [module1 <module>]

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
internal	Show line card manager related info
sw	Show software state
info	Show internal module information
module1	(Optional) Show per-module internal information
module	(Optional) Enter module number

Command Mode

- /exec

show module supported

show module supported

Syntax Description

Syntax Description

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

Command Mode

- /exec

show module uptime

show module uptime [__readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup> <minutesup> <secondsup> }]

Syntax Description

Syntax Description

show	Show running system information
module	Show module information
uptime	Show how long the module has been up and running
__readonly__	(Optional)
TABLE_uptimeinf	(Optional) Show uptime info
slot	(Optional) Slot
starttime	(Optional) Start Time
daysup	(Optional) Days Up
hoursup	(Optional) Hours Up
minutesup	(Optional) Minutes Up
secondsup	(Optional) Seconds Up

Command Mode

- /exec

show monitor internal errors

show monitor internal [event-history] errors

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	(Optional) Show event history
errors	Show error logs of ethernet span

Command Mode

- /exec

show monitor internal event-history debug

show monitor internal event-history debug

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	Show event history
debug	Debug level

Command Mode

- /exec

show monitor internal event-history global

show monitor internal event-history global

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	Show event history
global	Global info

Command Mode

- /exec

show monitor internal event-history msgs

show monitor internal event-history msgs

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	Show event history
msgs	Message level

Command Mode

- /exec

show monitor internal info

show monitor internal info { global-info | stats | clear-stats }

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
info	Display debug information
global-info	Global component information
stats	Monitor stats
clear-stats	Clear monitor stats

Command Mode

- /exec

show monitor internal lock

show monitor internal [event-history] lock

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	(Optional) Show event history
lock	Show lock logs of ethernet span

Command Mode

- /exec

show monitor internal logs

show monitor internal [event-history] logs

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
event-history	(Optional) Show event history
logs	Show logs event history

Command Mode

- /exec

show monitor internal mem-stats

show monitor internal mem-stats [detail]

Syntax Description

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
internal	Commands for internal use
mem-stats	Show memory allocation statistics
detail	(Optional) Display detailed information

Command Mode

- /exec

show mpls forwarding statistics

show mpls forwarding statistics [interface { <interface> | all }] [__readonly__ { TABLE_mpls_stats [<intf_name>] <mpls_packets_sent> <mpls_bytes_sent> <mpls_packets_received> <mpls_bytes_received> <mpls_packets_forwarded> <mpls_bytes_forwarded> <mpls_packets_originated> <mpls_bytes_originated> <mpls_packets_consumed> <mpls_bytes_consumed> <mpls_packets_input_dropped> <mpls_bytes_input_dropped> <mpls_packets_output_dropped> <mpls_bytes_output_dropped> }]

Syntax Description

Syntax Description

show	Show running system information
mpls	MPLS information
forwarding	Display MPLS software forwarded
statistics	Traffic statistics
interface	(Optional) Interface specific information
interface	(Optional) Interface chosen to display statistics
all	(Optional) All interfaces
__readonly__	(Optional)
TABLE_mpls_stats	(Optional) MPLS forwarding statistics
intf_name	(Optional) Interace name
mpls_packets_sent	(Optional) mpls packet sent
mpls_bytes_sent	(Optional) mpls bytes sent
mpls_packets_received	(Optional) mpls packet received
mpls_bytes_received	(Optional) mpls bytes received
mpls_packets_forwarded	(Optional) mpls packet forwarded
mpls_bytes_forwarded	(Optional) mpls bytes forwarded
mpls_packets_originated	(Optional) mpls packet originated
mpls_bytes_originated	(Optional) mpls bytes originated
mpls_packets_consumed	(Optional) mpls packet consumed
mpls_bytes_consumed	(Optional) mpls bytes consumed
mpls_packets_input_dropped	(Optional) mpls packet input dropped
mpls_bytes_input_dropped	(Optional) mpls bytes input dropped

mpls_packets_output_dropped	(Optional) mpls packet output dropped
mpls_bytes_output_dropped	(Optional) mpls bytes output dropped

Command Mode

- /exec

show mpls interfaces

show mpls interfaces [__readonly__ TABLE_mpls_interface <intf> <oper>]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Display MPLS Interfaces
__readonly__	(Optional)
TABLE_mpls_interface	(Optional)
intf	(Optional)
oper	(Optional)

Command Mode

- /exec

show mpls interfaces detail

show mpls interfaces detail [__readonly__ TABLE_mpls_interface_det <intf> <client_name> <oper_str> <ls_id> <mpls_sublayer_name> <mpls_sublayer_id>]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Interfaces
detail	Detail
__readonly__	(Optional)
TABLE_mpls_interface_det	(Optional)
intf	(Optional)
client_name	(Optional)
oper_str	(Optional)
ls_id	(Optional)
mpls_sublayer_name	(Optional)
mpls_sublayer_id	(Optional)

Command Mode

- /exec

show mpls interfaces internal

show mpls interfaces internal [__readonly__ TABLE_mpls_interface_int <intf> <client_name> <oper_str> <ls_id> <mpls_sublayer_name> <mpls_sublayer_id>]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Interfaces
internal	Internal
__readonly__	(Optional)
TABLE_mpls_interface_int	(Optional)
intf	(Optional)
client_name	(Optional)
oper_str	(Optional)
ls_id	(Optional)
mpls_sublayer_name	(Optional)
mpls_sublayer_id	(Optional)

Command Mode

- /exec

show mpls interfaces statistics

show mpls interfaces <ifname> statistics [__readonly__ TABLE_mpls_interface_stats <intf> <enabled> [<pkts_in>] [<bytes_in>] [<pkts_out>] [<bytes_out>]]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
interfaces	Interfaces
ifname	Interface Name
statistics	statistics
__readonly__	(Optional)
TABLE_mpls_interface_stats	(Optional)
intf	(Optional)
enabled	(Optional)
pkts_in	(Optional)
bytes_in	(Optional)
pkts_out	(Optional)
bytes_out	(Optional)

Command Mode

- /exec

show mpls ip bindings

show mpls ip bindings [vrf { <vrf-name> | <vrf-known-name> | all }] [generic] [{ <prefix> { <mask> | <mask-length> } | <prefix-mask> } [longer-prefix]] [neighbor <addr> | local] [[local-label <local-label> [local-to <local-label-max>]] | [remote-label <remote-label> [remote-to <remote-label-max>]]] [advertisement-prefix-list | detail | summary] [__readonly__ { TABLE_bnd <ldp_ctx> <llaf> <total_prefixes> <total_rt_info> <current_prev_lbl> <current_prev_lblQ> <total_alloc_prev_lbl> <total_alloc_prev_lblQ> <local_bindings> <rem_bindings> { TABLE_bnd_acl_list <oldstyle> <prefix_acl> <peer_acl> } { TABLE_bnd_rec <lib_addr> <lib_mask> <lcl_bnd_rev> <no_route> <chkpt> <local_label> <withdraw> <remote_lsr> <remote_label> <rem_lbl_in_use> <stale_gr> <advert_acl_pending> <peer_acl> <prefix_acl> { TABLE_bnd_peer_list <peer_ident> } } }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	MPLS IP information
bindings	Show the MPLS IP Label Information Base (LIB)
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display LIB information in all VRFs
generic	(Optional) Display generic labels
prefix	(Optional) Destination prefix
mask	(Optional) Destination prefix mask
mask-length	(Optional) Mask length
prefix-mask	(Optional) Destination prefix/mask
longer-prefix	(Optional) Include longer matches
neighbor	(Optional) Display labels from LDP neighbor
addr	(Optional) IP adjacency address
local	(Optional) Display only locally assigned labels
local-label	(Optional) Match locally assigned label values
local-label	(Optional) Locally assigned label value
local-to	(Optional) Label range

local-label-max	(Optional) Locally assigned label value
remote-label	(Optional) Match remotely assigned label values
remote-label	(Optional) Remotely assigned label value
remote-to	(Optional) Label range
remote-label-max	(Optional) Remotely assigned label value
advertisement-prefix-list	(Optional) Show advertisement prefix lists
detail	(Optional) Show detailed information
summary	(Optional) LDP summary information
__readonly__	(Optional) Read Only
TABLE_bnd	(Optional) Show bindings or tib summary for a vrf
ldp_ctx	(Optional) LDP context
llaf	(Optional) Local label filtering spec
total_prefixes	(Optional) Total number of prefixes
total_rt_info	(Optional) Total tib route info alloced
current_prev_lbl	(Optional) Current tib previous label info alloced
current_prev_lblQ	(Optional) Current tib previous label queues alloced
total_alloc_prev_lbl	(Optional) Total tib previous label info alloced
total_alloc_prev_lblQ	(Optional) Total tib previous label queues alloced
local_bindings	(Optional) Total number of locally assigned bindings
rem_bindings	(Optional) Total number of remote bindings
TABLE_bnd_acl_list	(Optional) Show advertisement access lists for default vrf
oldstyle	(Optional) Oldstyle assignment of prefix acls to entries
prefix_acl	(Optional) Prefix acl
peer_acl	(Optional) Peer acl
TABLE_bnd_rec	(Optional) Show bindings in a vrf
lib_addr	(Optional) LIB entry IP address
lib_mask	(Optional) LIB entry mask
lcl_bnd_rev	(Optional) Local binding revision for lib entry
no_route	(Optional) Displays if no route present for lib entry

chkpt	(Optional) Checkpoint state for lib entry
local_label	(Optional) Local label
withdraw	(Optional) Displays if label withdrawn or label withdraw sent
remote_lsr	(Optional) Remote binding label switched route for lib entry
remote_label	(Optional) Remote label for lib entry
rem_lbl_in_use	(Optional) Displays if out label is in use
stale_gr	(Optional) Displays if stale GR binding for lib entry
advert_acl_pending	(Optional) Displays if advert acl action pending for lib entry
peer_acl	(Optional) Advertisement acl: Peer acl name for lib entry
prefix_acl	(Optional) Advertisement acl: Prefix acl name for lib entry
TABLE_bnd_peer_list	(Optional) Show list of peers to which local label has been advertised
peer_ident	(Optional) Peer to which local label has been advertised

Command Mode

- /exec

show mpls ip ttl

show mpls ip ttl [__readonly__ TABLE_mpls_ip_ttl <prop_or_exp> [<forwarded>] [<local>] [<exp_count>]]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ip	Display IP information
ttl	TTL related information
__readonly__	(Optional)
TABLE_mpls_ip_ttl	(Optional)
prop_or_exp	(Optional)
forwarded	(Optional)
local	(Optional)
exp_count	(Optional)

Command Mode

- /exec

show mpls label range

show mpls label range [__readonly__ <dynamic-min> <dynamic-max> [<static-min> <static-max>] [<srgb-min> <srgb-max>]]

Syntax Description

Syntax Description

show	Show running system information
mpls	MPLS configuration commands
label	Label properties
range	Label range
__readonly__	(Optional)
dynamic-min	(Optional)
dynamic-max	(Optional)
static-min	(Optional)
static-max	(Optional)
srgb-min	(Optional)
srgb-max	(Optional)

Command Mode

- /exec

show mpls label statistics

show mpls label statistics <label>

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
label	Show a specific label statistics
statistics	Statistics for the label
label	Label

Command Mode

- /exec

show mpls ldp backoff

show mpls ldp backoff [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ <initial_time> <maximum_time> { TABLE_backoff [<vrf-name>] <total_entry> { TABLE_backoff_rec <peer_id> <threshold> <elapsed_time> } }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
backoff	LDP session setup backoff table
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display backoff information in all VRFs
__readonly__	(Optional) Read Only
initial_time	(Optional) Initial backoff value in seconds
maximum_time	(Optional) Maximum backoff value in seconds
TABLE_backoff	(Optional) Show backoff for a vrf
vrf-name	(Optional) VRF name
total_entry	(Optional) Total number of entries in Backoff table
TABLE_backoff_rec	(Optional) Show backoff record in a vrf
peer_id	(Optional) Peer router ID
threshold	(Optional) Backoff threshold in seconds
elapsed_time	(Optional) Backoff elapsed time in seconds

Command Mode

- /exec

show mpls ldp bindings

show mpls ldp bindings [vrf { <vrf-name> | <vrf-known-name> | all }] [{ <prefix> { <mask> | <mask-length> } | <prefix-mask> } [longer-prefix]] [neighbor <addr> | local] [local-label <local-label> [local-to <local-label-max>]] [remote-label <remote-label> [remote-to <remote-label-max>]] [advertisement-prefix-list | detail] [__readonly__ { TABLE_bnd <ldp_ctx> <llaf> { TABLE_bnd_acl_list <oldstyle> <prefix_acl> <peer_acl> } { TABLE_bnd_rec <lib_addr> <lib_mask> <lcl_bnd_rev> <no_route> <chkpt> <local_label> <withdraw> <remote_lsr> <remote_label> <rem_lbl_in_use> <stale_gr> <advert_acl_pending> <peer_acl> <prefix_acl> { TABLE_bnd_peer_list <peer_ident> } } }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
bindings	Show the LDP Label Information Base (LIB)
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display LIB information in all VRFs
prefix	(Optional) Destination prefix
mask	(Optional) Destination prefix mask
mask-length	(Optional) Mask length
prefix-mask	(Optional) Destination prefix/mask
longer-prefix	(Optional) Include longer matches
neighbor	(Optional) Display labels from LDP neighbor
addr	(Optional) IP adjacency address
local	(Optional) Display only locally assigned labels
local-label	(Optional) Match locally assigned label values
local-label	(Optional) Locally assigned label value
local-to	(Optional) Label range
local-label-max	(Optional) Locally assigned label value
remote-label	(Optional) Match remotely assigned label values

remote-label	(Optional) Remotely assigned label value
remote-to	(Optional) Label range
remote-label-max	(Optional) Remotely assigned label value
advertisement-prefix-list	(Optional) Show advertisement prefix lists
detail	(Optional) Show detailed information
__readonly__	(Optional) Read Only
TABLE_bnd	(Optional) Show bindings for a vrf
ldp_ctx	(Optional) LDP context
llaf	(Optional) Local label filtering spec
TABLE_bnd_acl_list	(Optional) Show advertisement access lists for default vrf
oldstyle	(Optional) Oldstyle assignment of prefix acls to entries
prefix_acl	(Optional) Prefix acl
peer_acl	(Optional) Peer acl
TABLE_bnd_rec	(Optional) Show bindings in a vrf
lib_addr	(Optional) LIB entry IP address
lib_mask	(Optional) LIB entry mask
lcl_bnd_rev	(Optional) Local binding revision for lib entry
no_route	(Optional) Displays if no route present for lib entry
chkpt	(Optional) Checkpoint state for lib entry
local_label	(Optional) Local label
withdraw	(Optional) Displays if label withdrawn or label withdraw sent
remote_lsr	(Optional) Remote binding label switched route for lib entry
remote_label	(Optional) Remote label for lib entry
rem_lbl_in_use	(Optional) Displays if out label is in use
stale_gr	(Optional) Displays if stale GR binding for lib entry
advert_acl_pending	(Optional) Displays if advert acl action pending for lib entry
peer_acl	(Optional) Advertisement acl: Peer acl name for lib entry
prefix_acl	(Optional) Advertisement acl: Prefix acl name for lib entry
TABLE_bnd_peer_list	(Optional) Show list of peers to which local label has been advertised

peer_ident	(Optional) Peer to which local label has been advertised

Command Mode

- /exec

show mpls ldp bindings summary

show mpls ldp bindings summary [__readonly__ { TABLE_bnd <total_prefixes> <total_rt_info> <local_bindings> <rem_bindings> }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
bindings	Show the LDP Label Information Base (LIB)
summary	Show summary information
__readonly__	(Optional) Read Only
TABLE_bnd	(Optional) Show bindings or tib summary for a vrf
total_prefixes	(Optional) Total number of prefixes
total_rt_info	(Optional) Total tib route info alloced
local_bindings	(Optional) Total number of localally assigned bindings
rem_bindings	(Optional) Total number of remote bindings

Command Mode

- /exec

show mpls ldp capabilities

show mpls ldp capabilities [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_cap [<vrf-name>] { TABLE_cap_rec <description> [<state>] } }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
capabilities	Display LDP Capabilities information
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display Capabilities database in all VRFs
__readonly__	(Optional) Read Only
vrf-name	(Optional) VRF name
TABLE_cap	(Optional) Show capabilities for a vrf
TABLE_cap_rec	(Optional) Show capabilities record in a vrf
description	(Optional) Capability description
state	(Optional) Capability state information

Command Mode

- /exec

show mpls ldp checkpoint

show mpls ldp checkpoint [__readonly__]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
checkpoint	Display LDP checkpoint information
__readonly__	(Optional) Read Only

Command Mode

- /exec

show mpls ldp discovery

show mpls ldp discovery [vrf { <vrf-name> | <vrf-known-name> | all }] [detail] [__readonly__ { TABLE_dsc_ctx [<ldp_ctx>] [<ldp_status>] <local_ldp_ident> [{ TABLE_dsc_if <if> <ptcl> [<if_status>] <xmit_recv> [<if_cfg>] [<igp_cfg>] [<hello_int>] [<local_xport_addr>] { TABLE_dsc_adj <remote_ldp_ident> [<nhop_info>] [<remote_src_ip>] [<remote_xport_ip>] [<hold_time>] [<local_hold_time>] [<nbr_hold_time>] [<nhop_addr>] [<nhop_mask>] [<pwdinfo>] } [<clients>] }] [{ TABLE_dsc_tgtd [<tgtd_remote_ip>] [<tgtd_local_ip>] [<tgtd_ptcl>] [<tgtd_type>] [<tgtd_xmit_recv>] [<tgtd_hello_int>] [<tgtd_local_xport_addr>] [<tgtd_remote_ldp_ident>] [<tgtd_nhop_info>] [<tgtd_remote_src_ip> <tgtd_remote_xport_ip>] [<tgtd_hold_time> <tgtd_local_hold_time> <tgtd_nbr_hold_time>] [<tgtd_nhop_addr> <tgtd_nhop_mask>] [<tgtd_pwdinfo>] }] }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
discovery	Display sources for locally generated LDP Discovery Hello PDUs
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display discovery information in all VRFs
detail	(Optional) Display detailed LDP discovery information
__readonly__	(Optional) Read Only
TABLE_dsc_ctx	(Optional) Show discovery info across contexts
ldp_ctx	(Optional) LDP context
ldp_status	(Optional) LDP operational status
local_ldp_ident	(Optional) Local router ID:Local label space
TABLE_dsc_if	(Optional) Show discovery info across interfaces
if	(Optional) Discovery source interface
ptcl	(Optional) LDP or TDP protocol
if_status	(Optional) LDP interface status
xmit_recv	(Optional) Transmitting and/or receiving
if_cfg	(Optional) Shown if mpls ip is enabled on the interface

igp_cfg	(Optional) Shown if autoconfig is enabled on the inteface
hello_int	(Optional) Hello interval in ms
local_xport_addr	(Optional) Local transport ip address
TABLE_dsc_adj	(Optional) Show link adjacencies
remote_ldp_ident	(Optional) Remote router ID:Remote label space
nhop_info	(Optional) Shown if no next-hop info for peer
remote_src_ip	(Optional) Remote source ip address
remote_xport_ip	(Optional) Remote transport ip address
hold_time	(Optional) Hold time in seconds
local_hold_time	(Optional) Proposed local hold time in seconds
nbr_hold_time	(Optional) Peer hold time in seconds
nhop_addr	(Optional) Peer reachable via this next-hop IP address
nhop_mask	(Optional) Next-hop mask
pwdinfo	(Optional) Password information
clients	(Optional) LDP clients (IPv4, mLDP, i.e.)
TABLE_dsc_tgtd	(Optional) Show targeted hellos
tgtd_remote_ip	(Optional) Remote ip address for targeted hellos
tgtd_local_ip	(Optional) Local ip address for targeted hellos
tgtd_ptcl	(Optional) LDP or TDP protocol for targeted hellos
tgtd_type	(Optional) Active/passive type for targeted hellos
tgtd_xmit_recv	(Optional) Transmitting and/or receiving targeted hellos
tgtd_hello_int	(Optional) Targeted hello interval in ms
tgtd_local_xport_addr	(Optional) Local transport address for targeted hellos
tgtd_remote_ldp_ident	(Optional) Remote router ID:Remote label space
tgtd_nhop_info	(Optional) Shown if no next-hop info for peer
tgtd_remote_src_ip	(Optional) Remote source ip address
tgtd_remote_xport_ip	(Optional) Remote transport ip address
tgtd_hold_time	(Optional) Targeted hold time in seconds
tgtd_local_hold_time	(Optional) Proposed local targeted hold time in seconds

tgtd_nbr_hold_time	(Optional) Peer targeted hold time in seconds
tgtd_nhop_addr	(Optional) Peer reachable via this next-hop IP address
tgtd_nhop_mask	(Optional) Next-hop mask
tgtd_pwdinfo	(Optional) Password information

Command Mode

- /exec

show mpls ldp graceful-restart

show mpls ldp graceful-restart [__readonly__ <gr-st-enabled> [<gr-st-restarted> <gr-st-fwd-holding-left-sec>] <gr-st-nbr-liveness-sec> <gr-st-max-recovery-sec> [<gr-st-fwd-holding-sec>] { TABLE_dnbr <dnbr-rec_cnt> { TABLE_dnbr_rec [<dnbr-rec-vrf-name>] <dnbr-peer-id> <dnbr-peer-inst> <dnbr-lcl-id> [<dnbr-reconn-left-sec> <dnbr-recovery-left-sec>] <dnbr-addr-list-cnt> [{ TABLE_dnbr_addr_list_rec <dnbr_addr_list_rec_addr> }] } } { TABLE_gr_sess [<gr-sess-vrf-name>] <gr-sess-peer-id> <gr-sess-state> }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
graceful-restart	Show Graceful Restart summary
__readonly__	(Optional) Read Only
gr-st-enabled	(Optional) LDP Graceful Restart Enabled
gr-st-restarted	(Optional) LDP is restarting gracefully
gr-st-fwd-holding-left-sec	(Optional) LDP forwarding state holdtime left
gr-st-nbr-liveness-sec	(Optional) LDP GR neighbor liveness time
gr-st-max-recovery-sec	(Optional) LDP GR max recovery time
gr-st-fwd-holding-sec	(Optional) LDP GR forwarding state holdtime
TABLE_dnbr	(Optional) LDP GR down neighbor information
dnbr-rec_cnt	(Optional) LDP GR down neighbor count
TABLE_dnbr_rec	(Optional) LDP GR down neighbor record
dnbr-rec-vrf-name	(Optional) LDP GR down neighbor vrf
dnbr-peer-id	(Optional) LDP GR down neighbor peer ID
dnbr-peer-inst	(Optional) LDP GR down neighbor instance
dnbr-lcl-id	(Optional) LDP GR down neighbor local ID
dnbr-reconn-left-sec	(Optional) LDP GR down neighbor reconnection left
dnbr-recovery-left-sec	(Optional) LDP GR down neighbor recovery left
dnbr-addr-list-cnt	(Optional) LDP GR down neighbor address list count
TABLE_dnbr_addr_list_rec	(Optional) LDP GR down neighbor address list

dnbr_addr_list_rec_addr	(Optional) LDP GR down neighbor address
TABLE_gr_sess	(Optional) LDP GR session information
gr-sess-vrf-name	(Optional) LDP GR session vrf
gr-sess-peer-id	(Optional) LDP GR session peer ID
gr-sess-state	(Optional) LDP GR session state

Command Mode

- /exec

show mpls ldp igp sync

show mpls ldp igp sync [vrf { <vrf-name> | <vrf-known-name> | all } | interface <intfc>] [__readonly__ { TABLE_isync <ldp_ctx> { TABLE_isync_if_list <if_name> <ldp_status> <isync_status> <sync_achieved> <peer_reachable> <delay_time> <secs_left> <holddown_time> { TABLE_isync_peer_list <peer_ident> <gr_enabled> } { TABLE_isync_nsi_rec <nsi_ident> <chkpt_created> } { TABLE_isync_igp_rec <igp_enabled> <igp_instance> } } }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
igp	IGP-related information
sync	LDP-IGP Synchronization
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display IGP SYNC information in all VRFs
interface	(Optional) Interface of interest
intfc	(Optional)
__readonly__	(Optional) Read Only
TABLE_isync	(Optional) Show igp sync info for a vrf
ldp_ctx	(Optional) LDP context
TABLE_isync_if_list	(Optional) Show igp sync info for a single interface
if_name	(Optional) Interface namestring
ldp_status	(Optional) LDP configured/not configured
isync_status	(Optional) LDP-IGP Synchronization enabled/disabled
sync_achieved	(Optional) Sync status: sync achieved/not achieved
peer_reachable	(Optional) Sync status: peer reachable/not reachable
delay_time	(Optional) Sync delay time (seconds)
secs_left	(Optional) Sync timer remaining time (seconds left)

holddown_time	(Optional) IGP holddown time
TABLE_isync_peer_list	(Optional) Show all peers for interface
peer_ident	(Optional) Peer LDP Ident
gr_enabled	(Optional) Displays if GR is enabled for session
TABLE_isync_nsi_rec	(Optional) Show all interface-level neighbor id records
nsi_ident	(Optional) GR-enabled peer ID
chkpt_created	(Optional) Displays if NSI checkpoint created
TABLE_isync_igp_rec	(Optional) Show sync-enabled IGP instances enabled on interface
igp_enabled	(Optional) Displays if IGP sync is enabled on intf
igp_instance	(Optional) IGP instance protocol and handle

Command Mode

- /exec

show mpls ldp internal

show mpls ldp internal { client | counters { cntr-all | system | forwarding } | debug | memory | pss { all | client | core | sdb } | tunnel-clients | transport [detail] } [__readonly__]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
client	Show LDP internal client information
counters	Show LDP internal counters
cntr-all	all LDP counters
debug	Show LDP internal debug information
system	LDP system related counters
forwarding	LDP forwarding related counters
memory	Show LDP chunk memory information
pss	pss databases
all	all pss databases
client	client pss database
core	core dynamic pss database
sdb	client sdb database
tunnel-clients	tunnel client information
transport	Show transport information
detail	(Optional) Show transport information
__readonly__	(Optional) Read Only

Command Mode

- /exec

show mpls ldp internal event-history dev

show mpls ldp internal event-history dev

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
event-history	Show various event logs of ldp
dev	Show LDP development-only events

Command Mode

- /exec

show mpls ldp internal event-history errors

show mpls ldp internal event-history errors

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
event-history	Show various event logs of ldp
errors	Show error logs of LDP

Command Mode

- /exec

show mpls ldp internal event-history msgs

show mpls ldp internal event-history msgs

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
event-history	Show various event logs of ldp
msgs	Show various message logs of LDP

Command Mode

- /exec

show mpls ldp internal event-history transport connection

show mpls ldp internal event-history transport connection

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
event-history	Show various event logs of ldp
transport	Show ldp transport event logs
connection	Show transport connection event logs

Command Mode

- /exec

show mpls ldp internal mem-stats

show mpls ldp internal mem-stats [no-libs] [detail]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
mem-stats	Show memory allocation statistics
no-libs	(Optional) Exclude library memory statistics
detail	(Optional) Display detailed information

Command Mode

- /exec

show mpls ldp internal route

show mpls ldp internal route [vrf { <vrf-name> | <vrf-known-name> | all }] [{ <prefix> { <mask> | <mask-length> } | <prefix-mask> } [longer-prefix]] [neighbor <addr> | local] [local-label <local-label> [local-to <local-label-max>]] [remote-label <remote-label> [remote-to <remote-label-max>]] [advertisement-prefix-list | detail]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
internal	internal information
route	Show the LDP Label Information Base (LIB)
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display LIB information in all VRFs
prefix	(Optional) Destination prefix
mask	(Optional) Destination prefix mask
mask-length	(Optional) Mask length
prefix-mask	(Optional) Destination prefix/mask
longer-prefix	(Optional) Include longer matches
neighbor	(Optional) Display labels from LDP neighbor
addr	(Optional) IP adjacency address
local	(Optional) Display only locally assigned labels
local-label	(Optional) Match locally assigned label values
local-label	(Optional) Locally assigned label value
local-to	(Optional) Label range
local-label-max	(Optional) Locally assigned label value
remote-label	(Optional) Match remotely assigned label values
remote-label	(Optional) Remotely assigned label value

remote-to	(Optional) Label range
remote-label-max	(Optional) Remotely assigned label value
advertisement-prefix-list	(Optional) Show advertisement prefix lists
detail	(Optional) Show detailed information

Command Mode

- /exec

show mpls ldp neighbor

show mpls ldp neighbor [vrf { <vrf-name> | <vrf-known-name> | all }] [<address> | <interface>] [capabilities | detail | graceful-restart | password | internal] [__readonly__ { TABLE_ctx <ldp_ctx> <tdp_status> { TABLE_rec <peer_router_id> <local_router_id> <remote_addr> <remote_tcp_port> <local_addr> <local_tcp_port> [<md5_status> <sha1_status>] [<pwd_info> <adj_pwd_rx> <adj_pwd_tx> <tcp_pwd_rx> <tcp_pwd_tx>] <state> <msgs_sent> <msgs_rcvd> <advert> <last_rev_sent> <up_time> <uid> <peer_id> [<gr_status> <gr_reconnect_time>] <peer_holdtime> <ka_interval> <peer_state> [<inbound_filter>] [<sp_state> <sp_info> <sp_timer_left>] [<loop_det_peer> <loop_det_local> <pvl_peer> <pvl_local>] { TABLE_adj <intf> <src_ip> <hello_holdtime> <hello_intvl> <dhcb_local> <dhcb_target> <dhcb_mode> <dhcb_holdtime> <dhcb_intvl> } { TABLE_addr <peer_addr> } { TABLE_dup_addr <dup_addr> } { TABLE_client <client_name> } { TABLE_cap_sent <cap_sent_name> } { TABLE_cap_rcvd <cap_rcvd_name> } } }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
neighbor	LDP neighbor
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VPN Routing/Forwarding instance name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display neighbor information in all VRFs
address	(Optional) Neighbor address
interface	(Optional) Local interface
capabilities	(Optional) Display neighbor capability information
detail	(Optional) Display detailed neighbor information
graceful-restart	(Optional) Display graceful restart neighbor information
password	(Optional) Display neighbor password information
internal	(Optional) Display internal neighbor information
__readonly__	(Optional) Read Only
TABLE_ctx	(Optional) Show session info across all contexts
ldp_ctx	(Optional) LDP context
tdp_status	(Optional) LDP status

TABLE_rec	(Optional) Show session info for a vrf
peer_router_id	(Optional) Peer router LDP ID
local_router_id	(Optional) Local router LDP ID
remote_addr	(Optional) TCP connection remote IP address
remote_tcp_port	(Optional) TCP connection remote port number
local_addr	(Optional) TCP connection local IP address
local_tcp_port	(Optional) TCP connection local port number
md5_status	(Optional) MD5 on for this LDP session
sha1_status	(Optional) SHA1 on for this LDP session
pwd_info	(Optional) Password status
adj_pwd_rx	(Optional) Adj pwd Rx
adj_pwd_tx	(Optional) Adj pwd Tx
tcp_pwd_rx	(Optional) TCP pwd Rx
tcp_pwd_tx	(Optional) TCP pwd Tx
state	(Optional) LDP session state
msgs_sent	(Optional) Number of msgs/PIEs sent
msgs_rcvd	(Optional) Number of msgs/PIEs received
advert	(Optional) Neighbor label advertisement type
last_rev_sent	(Optional) Last TIB revision sent
up_time	(Optional) LDP session up time
uid	(Optional) Unique ID for adjacency
peer_id	(Optional) Peer index for adjacency
gr_status	(Optional) Graceful restart status
gr_reconnect_time	(Optional) Graceful restart peer reconnect time (msecs)
peer_holdtime	(Optional) Holdtime of peer (ms)
ka_interval	(Optional) Keepalive interval
peer_state	(Optional) State of session with peer
inbound_filter	(Optional) LDP inbound filtering accept acl
sp_state	(Optional) LDP Session Protection state

sp_info	(Optional) LDP Session Protection filter and duration (secs)
sp_timer_left	(Optional) LDP Session Protection holdup time remaining (secs)
loop_det_peer	(Optional) Loop Detection peer status
loop_det_local	(Optional) Loop Detection local status
pvl_peer	(Optional) Path Vector Limit of peer
pvl_local	(Optional) Path Vector Limit of local
TABLE_adj	(Optional) LDP discovery sources
intf	(Optional) Local interface to peer
src_ip	(Optional) Source IP address of hello packet
hello_holdtime	(Optional) Hello holdtime (ms)
hello_intvl	(Optional) Hello interval (ms)
dhcb_local	(Optional) DHCB local IP address
dhcb_target	(Optional) DHCB target IP address
dhcb_mode	(Optional) DHCB active or passive mode
dhcb_holdtime	(Optional) Targeted hello holdtime
dhcb_intvl	(Optional) Targeted hello interval
TABLE_addr	(Optional) Addresses bound to peer LDP ID
peer_addr	(Optional) Address bound to peer LDP Ident
TABLE_dup_addr	(Optional) Duplicate addresses advertised by peer
dup_addr	(Optional) Duplicate address advertised by peer
TABLE_client	(Optional) Client names associated with session
client_name	(Optional) Client name
TABLE_cap_sent	(Optional) Capabilities sent
cap_sent_name	(Optional) Capability sent
TABLE_cap_rcvd	(Optional) Capabilities received
cap_rcvd_name	(Optional) Capability received

Command Mode

- /exec

show mpls ldp parameters

show mpls ldp parameters [__readonly__ <ptcl-version> [<sess-hold-infinite> <sess-hold-sec>] <kpalive-intvl-sec> <hello-hold-sec> <hello-intvl-sec> <tgthello-hold-sec> <tgthello-intvl-sec> <tgthello-acpt-fltr> <omit-xport-addr> <ignore-xport-addr> <hello-spoofing> <max-hop-count> <loop-detection-st> { TABLE_fctrl <fctrl_state> [<fctrl_compat_fset>] [{ TABLE_features <feature_name> }] [<feature_none>] }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
parameters	Display LDP configuration parameters
__readonly__	(Optional) Read Only
ptcl-version	(Optional) LDP protocol version
sess-hold-infinite	(Optional) LDP session holdtime infinite
sess-hold-sec	(Optional) LDP session holdtime in seconds
kpalive-intvl-sec	(Optional) LDP session keepalive interval in seconds
hello-hold-sec	(Optional) LDP discovery adjacency holdtime in seconds
hello-intvl-sec	(Optional) LDP discovery hello interval in seconds
tgthello-hold-sec	(Optional) LDP targeted adjacency holdtime in seconds
tgthello-intvl-sec	(Optional) LDP targeted hello interval in seconds
tgthello-acpt-fltr	(Optional) LDP targeted hello acceptance filter
omit-xport-addr	(Optional) Omitting transport addr in transmitted hello
ignore-xport-addr	(Optional) Ignoring transport addr in received hello
hello-spoofing	(Optional) Accepting undirected hellos to non-broadcast addresses
max-hop-count	(Optional) Downstream on Demand max hop count
loop-detection-st	(Optional) LDP loop detection
TABLE_fctrl	(Optional) LDP feature set manager
fctrl_state	(Optional) LDP feature set manager state
fctrl_compat_fset	(Optional) LDP feature set compatible

TABLE_features	(Optional) LDP feature list
feature_name	(Optional) LDP feature name
feature_none	(Optional) LDP not enabled

Command Mode

- /exec

show mpls static binding

show mpls static binding [vrf { <vrf-name> | <vrf-known-name> }] { { ipv4 [<prefix> { <mask> | <mask-length> } | <prefix-mask>] [local | remote] [nexthop <addr>] [inconsistency] [lsp <slb_name>] } | { ipv6 [<ipv6-prefix>] [local | remote] [ipv6-nexthop <ipv6-addr>] [inconsistency] } | all [inconsistency] } [__readonly__ [TABLE_slb [<slb_name>] [<slb_prefix>] [<slb_mask>] <slb_vrf> <slb_inlabel> [<slb_type>] [TABLE_slb_outlbl_list [<slb_nh_path_num>] <slb_nhop> <slb_outlabel>] [<inconsistency_reason>]]]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	Show ipv4 static label bindings
ipv6	Show ipv6 static label bindings
all	Show all static label bindings
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
local	(Optional) Incoming (local) static label bindings
remote	(Optional) Outgoing (remote) static label bindings
inconsistency	(Optional) Inconsistent bindings between config and URIB
prefix	(Optional) Destination ipv4 prefix
mask	(Optional) Destination ipv4 prefix mask
mask-length	(Optional) Ipv4 mask length
prefix-mask	(Optional) Destination prefix/mask
nexthop	(Optional) Ipv4 next hop address
addr	(Optional) Ipv4 Next hop address
ipv6-nexthop	(Optional) Ipv6 next hop address
lsp	(Optional) LSP Name
__readonly__	(Optional) Read Only

TABLE_slb	(Optional) Show static label bindings for a given prefix
slb_name	(Optional) Name
slb_prefix	(Optional) Prefix
slb_type	(Optional) SLB Type
slb_mask	(Optional) Mask bits
slb_vrf	(Optional) VRF name for prefix
slb_inlabel	(Optional) Incoming label for prefix
TABLE_slb_outlbl_list	(Optional) Show static outgoing labels for prefix
slb_nhop	(Optional) Next-hop address
slb_nh_path_num	(Optional) Identifier for outgoing nexthop
slb_outlabel	(Optional) Outgoing label for next-hop address
inconsistency_reason	(Optional) Reason for inconsistency

Command Mode

- /exec

show mpls static binding

show mpls static binding [ipv4] [vrf { <vrf-name> | <vrf-known-name> }] [<prefix> { <mask> | <mask-length> } | <prefix-mask>] [local | remote] [nexthop <addr>] [__readonly__ { TABLE_slb [<slb_prefix> <slb_mask>] <slb_vrf> <slb_inlabel> [{ TABLE_slb_outlbl_list <slb_nhop> <slb_outlabel> }] }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	(Optional) Show ipv4 static label bindings
vrf	(Optional) VRF Routing/Forwarding instance information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
prefix	(Optional) Destination prefix
mask	(Optional) Destination prefix mask
mask-length	(Optional) Mask length
prefix-mask	(Optional) Destination prefix/mask
local	(Optional) Incoming (local) static label bindings
remote	(Optional) Outgoing (remote) static label bindings
nexthop	(Optional) Next hop address
addr	(Optional) Next hop address
__readonly__	(Optional) Read Only
TABLE_slb	(Optional) Show static label bindings for a given prefix
slb_prefix	(Optional) Prefix
slb_mask	(Optional) Mask bits
slb_vrf	(Optional) VRF name for prefix
slb_inlabel	(Optional) Incoming label for prefix
TABLE_slb_outlbl_list	(Optional) Show static outgoing labels for prefix

slb_nhop	(Optional) Next-hop address
slb_outlabel	(Optional) Outgoing label for next-hop address

Command Mode

- /exec

show mpls static binding vrf per-vrf

show mpls static binding [ipv4] vrf { <vrf-name> | <vrf-known-name> } per-vrf [__readonly__ { TABLE_slb_per_vrf <slb_vrf_per_vrf> <slb_inlabel_per_vrf> }]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
binding	Show static label bindings
ipv4	(Optional) Show ipv4 static label bindings
vrf	VRF Routing/Forwarding instance information
vrf-name	VRF name
vrf-known-name	Known VRF name
per-vrf	per-vrf static label bindings
__readonly__	(Optional) Read Only
TABLE_slb_per_vrf	(Optional) Show static label bindings for per-vrf deaggregation
slb_vrf_per_vrf	(Optional) VRF name
slb_inlabel_per_vrf	(Optional) Incoming label

Command Mode

- /exec

show mpls static internal rnh

show mpls static internal rnh [__readonly__ [TABLE_rnh <table_id> <prefix> <refcount>]]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Show MPLS static information
internal	Show MPLS static internal information
rnh	Show mpls static internal RNH database
__readonly__	(Optional)
TABLE_rnh	(Optional)
table_id	(Optional)
prefix	(Optional)
refcount	(Optional)

Command Mode

- /exec

show mpls static trace

show mpls static trace { error | warning | event } [size]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
static	Static Label Bindings
trace	MPLS static trace
error	MPLS static error trace
warning	MPLS static warning trace
event	MPLS static event trace
size	(Optional) trace buffer size in Kbytes

Command Mode

- /exec

show mpls strip internal

show mpls strip internal [info] [{ global | labels | ports } [<val>]]

Syntax Description

Syntax Description

show	Show running system information
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
internal	Show stripcl internal information
info	(Optional) Show internal data structure information
global	(Optional) Display internal global info
labels	(Optional) Display detailed label info
ports	(Optional) Display port info
val	(Optional) Option Value for the param

Command Mode

- /exec

show mpls strip labels

show mpls strip labels [all | static | dynamic | <label_val>] [__readonly__ <disp_summary> TABLE_labels <disp_label> <disp_age> <disp_interface> <disp_pkt_cnt> <disp_stats> <disp_static>]

Syntax Description

Syntax Description

show	Show running system information
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
labels	labels added in the system
all	(Optional) all labels [default]
static	(Optional) labels programmed using cli
dynamic	(Optional) dynamically learned
label_val	(Optional) Label to show
__readonly__	(Optional) Read Only
TABLE_labels	(Optional) MPLS Strip Labels Tables
disp_label	(Optional) Label
disp_age	(Optional) Age
disp_interface	(Optional) Interface
disp_pkt_cnt	(Optional) Packet Count
disp_stats	(Optional) Statistics
disp_static	(Optional) Static
disp_summary	(Optional) Summary

Command Mode

- /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> [TABLE_inlabel <in_label> <out_label_stack> + { <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_label> +] <out_packets> + <out_bytes> +] [{ <tunnel_v4_mid_dest> | <tunnel_v6_mid_dest> } { <ipv4_next_hop> | <ipv6_next_hop> }] [<per_ce_table> <per_ce_nh_set_id>] [<fec_none_label>] [<table_name>]]]]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
traffic-eng	(Optional) Show traffic-engineering related entries
ip-addr	(Optional) Match destination address
ipv4-prefix	(Optional) Specify an IP prefix/mask
fec	(Optional) Show FEC information in the ULIB
private	(Optional) Show more detailed information in the ULIB
labels	(Optional) Show a specific label-related information
label	(Optional) Low label value
max-label	(Optional) High label value
interface	(Optional) Match outgoing interface
tunnels	(Optional) Show TE head-end information
cbts	(Optional) Show TE head-end CBTS information
lsp	(Optional) Show TE mid-point information
aggregate	(Optional) Show aggregate-related information
intf	(Optional) Specify outgoing interface
ingress-addr	(Optional) Match TE ingress address
summary	(Optional) Summarized information

detail	(Optional) Detailed information
te_if	(Optional) TE tunnel head-end
ipv4_te_lsp	(Optional) TE IPv4 LSP midpoint
ipv6_te_lsp	(Optional) TE IPv6 LSP midpoint
ipv4_prefix	(Optional) IPv4 prefix
ipv6_prefix	(Optional) IPv6 prefix
ipv4	(Optional) Display IPv4 information
ipv6	(Optional) Display IPv6 information
deagg	(Optional) De-aggregation
tunnel-id	(Optional) LSP Tunnel ID
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name (Max Size 32)
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf_name	(Optional)
TABLE_inlabel	(Optional)
in_label	(Optional)
out_label_stack	(Optional)
ipv4_prefix	(Optional)
tunnel_v4_mid_source	(Optional)
tunnel_v4_mid_dest	(Optional)
tunnel_id	(Optional)
ext_v4_tunnel_id	(Optional)
tunnel_instance	(Optional)
tunnel_head	(Optional)
deagg_vrf	(Optional)
deagg_af	(Optional)
out_interface	(Optional)
ipv4_next_hop	(Optional)

ipv6_next_hop	(Optional)
nhlfe_frr_status	(Optional)
nhlfe_stale_flag	(Optional)
nhlfe_p2p_flag	(Optional)
table_name	(Optional)
in_packets	(Optional)
in_bytes	(Optional)
out_label	(Optional)
out_packets	(Optional)
out_bytes	(Optional)
per_ce_table	(Optional)
per_ce_nh_set_id	(Optional)
fec_none_label	(Optional)

Command Mode

- /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> <ile-add> <fec-del> <ile-del> <last-xid> <fec-ack>]]

Syntax Description

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__	(Optional)
TABLE_client	(Optional)
pib-name	(Optional) Name of the client(pib)
pib-index	(Optional) PIB Index
pib-uuid	(Optional) PIB UUID
pib-sap	(Optional) MTS SAP for the pib
stale-time	(Optional) Stale time
pib-flag	(Optional) Flags set by the pib
stale-due	(Optional) Stale timer due in
reg-msg	(Optional) Number of Registration Message
conv-msg	(Optional) Number of Converge Message
inv-conv	(Optional) Number of Invalid Convergence message
fec-msg	(Optional) Number of FEC messages
fec-add	(Optional) Number of FEC Add messages
ile-add	(Optional) Number of ILE Add messages
fec-del	(Optional) Number of FEC delete messages
ile-del	(Optional) Number of ILE delete messages
last-xid	(Optional) Last XID
fec-ack	(Optional) Number of FEC Ack messages sent

Command Mode

- /exec

show mpls switching internal client

show mpls switching internal client

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
client	Client pib entries from SDB

Command Mode

- /exec

show mpls switching internal distribution

show mpls switching internal distribution

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
distribution	UFDM Distribution

Command Mode

- /exec

show mpls switching internal dynamicbf

show mpls switching internal dynamicbf

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
dynamicbf	dynamic bitfield entries

Command Mode

- /exec

show mpls switching internal event-history

show mpls switching internal event-history { errors | msgs | events | fecdb | ha | snmp | stats | ufdm | frr | lbr | dme }

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
event-history	Show various event logs of ULIB
errors	Show error logs
msgs	Show IPC event logs
events	Show ULIB event logs
fecdb	Show FEC database event logs
ha	Show HA event logs
snmp	Show SNMP eventlogs
stats	Show statistics event logs
ufdm	Show UFDM event logs
frr	Show FRR event logs
lbr	Show LBR event logs
dme	Show DME event logs

Command Mode

- /exec

show mpls switching internal fec

show mpls switching internal fec <fec_type>

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
fec	FEC entries from SDB
fec_type	FEC type

Command Mode

- /exec

show mpls switching internal fec label

show mpls switching internal fec { label | interface }

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
fec	FEC entries from SDB
label	By input label
interface	By input interfaces

Command Mode

- /exec

show mpls switching internal frr

show mpls switching internal frr

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
frr	FRR protected interfaces

Command Mode

- /exec

show mpls switching internal holddownbf

show mpls switching internal holddownbf

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
holddownbf	Holddown bitfield entries from PSS

Command Mode

- /exec

show mpls switching internal lbr

show mpls switching internal lbr

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
lbr	Label Block Requests

Command Mode

- /exec

show mpls switching internal mem-stats

show mpls switching internal mem-stats [detail]

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
mem-stats	Show memory allocation statistics
detail	(Optional) Display detailed information

Command Mode

- /exec

show mpls switching internal staticbf

show mpls switching internal staticbf

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
internal	Debug implementation internals
staticbf	static bitfield entries

Command Mode

- /exec

show mpls traffic-eng tunnels statistics internal

show mpls traffic-eng tunnels { <tun-intf> | { { [destination <address>] [source-id { <ipaddress> | <tunnel-id> | <ipaddress> <tunnel-id> }] [role { all | head | middle | tail | remote }] [{ up | down }] [suboptimal constraints { none | current | max }] [property { backup-tunnel | fast-reroute }] [frrstate { ready | active }] [name <string> | name-regexp <regexp-string>] [interface { in <in-intf> | out <out-intf> | <phys-intf> | backup <bkup-intf> }] [attributes <attr-string>] } + } } statistics internal

Syntax Description

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
tunnels	MPLS traffic-eng tunnel status
tun-intf	Tunnel interface
destination	(Optional) Restrict display to tunnels with this destination
address	(Optional) tunnel destination address
source-id	(Optional) Tunnel identifier address/id
ipaddress	(Optional) Source address part of tunnel identifier
tunnel-id	(Optional) Number part of tunnel identifier
role	(Optional) Restrict display to tunnels with specified role
all	(Optional) head, middle, or tail LSP tunnels
head	(Optional) tunnels that originate locally
middle	(Optional) tunnels that transit locally
tail	(Optional) tunnels that terminate locally
remote	(Optional) middle or tail tunnels
up	(Optional) Restrict display to tunnels in up state
down	(Optional) Restrict display to tunnels in down state
suboptimal	(Optional) Restrict display to tunnels using a suboptimal path
constraints	(Optional) Specify constraints for finding best comparison path
none	(Optional) path lookup without any constraints
current	(Optional) path lookup constrained by available resources

max	(Optional) path lookup constrained by network's maximum potential resources
property	(Optional) Restrict display to tunnels with specified property
backup-tunnel	(Optional) Tunnels used as fast reroute
fast-reroute	(Optional) Tunnels protected by fast reroute
frrstate	(Optional) Restrict display to tunnels with specific frr state
ready	(Optional) Tunnels in FRR ready state
active	(Optional) Tunnels in FRR active state
name	(Optional) Restrict display to tunnels with this name
string	(Optional) LSP Tunnel name
name-regexp	(Optional) Restrict display to tunnels matching this name
regexp-string	(Optional) LSP Tunnel name (regular expression)
interface	(Optional) Restrict display to tunnels using a specified interface
in	(Optional) input interface
in-intf	(Optional)
out	(Optional) output interface
out-intf	(Optional)
phys-intf	(Optional)
backup	(Optional) Fast reroute backup protection provided by tunnels
bkup-intf	(Optional)
attributes	(Optional) Restrict display to tunnels using a matching attribute list
attr-string	(Optional) LSP attribute list name (regular expression)
statistics	Tunnel counters and statistics
internal	Commands for internal use

Command Mode

- /exec

show mvpn bgp mdt

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

Syntax Description

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
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	(Optional) Source address of MVPN neighbor
src-addr	(Optional) Source Address
__readonly__	(Optional)
TABLE_entry	(Optional)
bgp_rd	(Optional)
mdt_src	(Optional)
mdt_grp	(Optional)
local	(Optional)

Command Mode

- /exec

show mvpn internal ha

show mvpn internal ha [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
internal	Commands for internal use
ha	PSS states
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show mvpn internal mrib

show mvpn internal { mrib-txlist | mrib-buffers }

Syntax Description

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
internal	Commands for internal use
mrib-txlist	Show MRIB transmission-list information
mrib-buffers	Show MRIB route buffer information

Command Mode

- /exec

show mvpn internal state

show mvpn internal state

Syntax Description

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
internal	Commands for internal use
state	Local state

Command Mode

- /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

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
mdt	Display MDT information
encap	Display MDT Encap table
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out_context	(Optional)
TABLE_encap	(Optional)
encap_index	(Optional)
mdt_grp	(Optional)
mdt_src	(Optional)
mdt_src_if	(Optional)

Command Mode

- /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

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
mdt	Display MDT information
route	Display MDT route information
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_vrf	(Optional)
out_context	(Optional)
TABLE_mroute	(Optional)
src_addr	(Optional)
grp_addr	(Optional)
ref_count	(Optional)

Command Mode

- /exec

show mvpn snmp mib genericTable

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

Syntax Description

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
genericTable	Show MVPN Generic Table
mplsVpnVrfName-in	(Optional) mplsVpnVrfName
__readonly__	(Optional)
TABLE_ciscoMvpnGenericTable	(Optional)
mplsVpnVrfName-out	(Optional) mib table index mplsVpnVrfName
ciscoMvpnGenOperStatusChange	(Optional) mib object ciscoMvpnGenOperStatusChange
ciscoMvpnGenOperChangeTime	(Optional) mib object ciscoMvpnGenOperChangeTime
ciscoMvpnGenAssociatedInterfaces	(Optional) mib object ciscoMvpnGenAssociatedInterfaces
ciscoMvpnGenRowStatus	(Optional) mib object ciscoMvpnGenRowStatus

Command Mode

- /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

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnBgpMdtUpdateTable	show mib table mvpnBgpMdtUpdateTable
ciscoMvpnBgpMdtUpdGrpAddrType-in	(Optional) Data MDT Group Address Type
ciscoMvpnBgpMdtUpdateGroup-in	(Optional) Data MDT group address in the MDT join TLV
ciscoMvpnBgpMdtUpdSrcAddrType-in	(Optional) MDT mulitcast routing enty source address type
ciscoMvpnBgpMdtUpdateSource-in	(Optional) Souce addres for the MDT mulitcast routing enty created following the recepit of MDT join TLV
__readonly__	(Optional)
TABLE_ciscoMvpnBgpMdtUpdateTable	(Optional)
ciscoMvpnBgpMdtUpdGrpAddrType-out	(Optional) mib table index ciscoMvpnBgpMdtUpdGrpAddrType
ciscoMvpnBgpMdtUpdateGroup-out	(Optional) mib table index ciscoMvpnBgpMdtUpdateGroup
ciscoMvpnBgpMdtUpdateRd	(Optional) mib object ciscoMvpnBgpMdtUpdateRd
ciscoMvpnBgpMdtUpdSrcAddrType-out	(Optional) mib table index ciscoMvpnBgpMdtUpdSrcAddrType
ciscoMvpnBgpMdtUpdateSource-out	(Optional) mib table index ciscoMvpnBgpMdtUpdateSource
ciscoMvpnBgpMdtUpdOrigAddrType	(Optional) mib object ciscoMvpnBgpMdtUpdOrigAddrType
ciscoMvpnBgpMdtUpdateOriginator	(Optional) mib object ciscoMvpnBgpMdtUpdateOriginator
ciscoMvpnBgpMdtUpdNhAddrType	(Optional) mib object ciscoMvpnBgpMdtUpdNhAddrType
ciscoMvpnBgpMdtUpdateNexthop	(Optional) mib object ciscoMvpnBgpMdtUpdateNexthop

Command Mode

- /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

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDataTable	show mib table mvpnMdtDataTable
mplsVpnVrfName-in	(Optional) VRF name
__readonly__	(Optional)
TABLE_ciscoMvpnMdtDataTable	(Optional)
mplsVpnVrfName-out	(Optional) mib table index mplsVpnVrfName
ciscoMvpnMdtDataRangeAddrType	(Optional) mib object ciscoMvpnMdtDefaultAddrType
ciscoMvpnMdtDataRangeAddress	(Optional) mib object ciscoMvpnMdtDataRangeAddress
ciscoMvpnMdtDataWildcardType	(Optional) mib object ciscoMvpnMdtDataWildcardType
ciscoMvpnMdtDataWildcardBits	(Optional) mib object ciscoMvpnMdtDataWildcardBits
ciscoMvpnMdtDataThreshold	(Optional) mib object ciscoMvpnMdtDataThreshold
ciscoMvpnMdtDataRowStatus	(Optional) mib object ciscoMvpnMdtDataRowStatus

Command Mode

- /exec

show mvpn snmp mib mvpnMdtDefaultTable

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

Syntax Description

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtDefaultTable	show mib table ciscoMvpnMdtDefaultTable
mplsVpnVrfName-in	(Optional) mplsVpnVrfName
__readonly__	(Optional)
TABLE_ciscoMvpnMdtDefaultTable	(Optional)
mplsVpnVrfName-out	(Optional) mib table index mplsVpnVrfName
ciscoMvpnMdtDefaultAddrType	(Optional) mib object ciscoMvpnMdtDefaultAddrType
ciscoMvpnMdtDefaultAddress	(Optional) mib object ciscoMvpnMdtDefaultAddress
ciscoMvpnMdtEncapsType	(Optional) mib object ciscoMvpnMdtEncapsType
ciscoMvpnMdtDefaultRowStatus	(Optional) mib object ciscoMvpnMdtDefaultRowStatus

Command Mode

- /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

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnRcvTable	show mib table ciscoMvpnMdtJnRcvTable
mplsVpnVrfName-in	(Optional) VRF name
ciscoMvpnMdtJnRcvGrpAddrType-in	(Optional) Data MDT group address type
ciscoMvpnMdtJnRcvGroup-in	(Optional) Data MDT group address in the MDT join TLV
ciscoMvpnMdtJnRcvSrcAddrType-in	(Optional) Source address type
ciscoMvpnMdtJnRcvSource-in	(Optional) Souce addres for the MDT mulitcast routing enty created following the recepit of MDT join TLV
__readonly__	(Optional)
TABLE_ciscoMvpnMdtJnRcvTable	(Optional)
mplsVpnVrfName-out	(Optional) mib table index mplsVpnVrfName
ciscoMvpnMdtJnRcvGrpAddrType-out	(Optional) mib table index ciscoMvpnMdtJnRcvGrpAddrType
ciscoMvpnMdtJnRcvGroup-out	(Optional) mib table index ciscoMvpnMdtJnRcvGroup
ciscoMvpnMdtJnRcvSrcAddrType-out	(Optional) mib table index ciscoMvpnMdtJnRcvSrcAddrType
ciscoMvpnMdtJnRcvSource-out	(Optional) mib table index ciscoMvpnMdtJnRcvSource
ciscoMvpnMdtJnRcvUpTime	(Optional) mib object ciscoMvpnMdtJnRcvUpTime
ciscoMvpnMdtJnRcvExpTime	(Optional) mib object ciscoMvpnMdtJnRcvExpTime

Command Mode

- /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

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMdtJnSendTable	show mib table ciscoMvpnMdtJnSendTable
mplsVpnVrfName-in	(Optional) VRF name
ciscoMvpnMdtJnSendGrpAddrType-in	(Optional) Data MDT group address type
ciscoMvpnMdtJnSendGroup-in	(Optional) Data MDT group address in the MDT join TLV
ciscoMvpnMdtJnSendSrcAddrType-in	(Optional) Source address type
ciscoMvpnMdtJnSendSource-in	(Optional) Souce addres for the MDT mulitcast routing enty created following the recepit of MDT join TLV
__readonly__	(Optional)
TABLE_ciscoMvpnMdtJnSendTable	(Optional)
mplsVpnVrfName-out	(Optional) mib table index mplsVpnVrfName
ciscoMvpnMdtJnSendGrpAddrType-out	(Optional) mib table index ciscoMvpnMdtJnSendGrpAddrType
ciscoMvpnMdtJnSendGroup-out	(Optional) mib table index ciscoMvpnMdtJnSendGroup
ciscoMvpnMdtJnSendSrcAddrType-out	(Optional) mib table index ciscoMvpnMdtJnSendSrcAddrType
ciscoMvpnMdtJnSendSource-out	(Optional) mib table index ciscoMvpnMdtJnSendSource
ciscoMvpnMdtJnSendMdtGroup	(Optional) mib object ciscoMvpnMdtJnSendMdtGroup
ciscoMvpnMdtJnSendMdtRefCt	(Optional) mib object ciscoMvpnMdtJnSendMdtRefCt

Command Mode

- /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

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnMrouteMdtTable	show mib table mvpnMrouteMdtTable
mplsVpnVrfName-in	(Optional) VRF name
ciscoMvpnMrouteMvrfGrpAddrType-in	(Optional) Group address type of multicast routing entry
ciscoMvpnMrouteMvrfGroup-in	(Optional) Group address of multicast routing entry
ciscoMvpnMrouteMvrfSrcAddrType-in	(Optional) Source address type
ciscoMvpnMrouteMvrfSource-in	(Optional) Source address of multicast routing entry
ciscoMvpnMrouteUpDownStreamInfo-in	(Optional) if PE is Upstream or downstream router for the multcast routing entry
__readonly__	(Optional)
TABLE_ciscoMvpnMrouteMdtTable	(Optional)
mplsVpnVrfName-out	(Optional) mib table index mplsVpnVrfName
ciscoMvpnMrouteMvrfGrpAddrType-out	(Optional) mib table index ciscoMvpnMrouteMvrfGrpAddrType
ciscoMvpnMrouteMvrfGroup-out	(Optional) mib table index ciscoMvpnMrouteMvrfGroup
ciscoMvpnMrouteMvrfSrcAddrType-out	(Optional) mib table index ciscoMvpnMrouteMvrfSrcAddrType
ciscoMvpnMrouteMvrfSource-out	(Optional) mib table index ciscoMvpnMrouteMvrfSource
ciscoMvpnMrouteUpDownStreamInfo-out	(Optional) mib table index ciscoMvpnMrouteUpDownStreamInfo
ciscoMvpnMrouteMdtGrpAddrType	(Optional) mib object ciscoMvpnMrouteMdtGrpAddrType

ciscoMvpnMrouteMdtGroup	(Optional) mib object ciscoMvpnMrouteMdtGroup
ciscoMvpnMrouteMdtType	(Optional) mib object ciscoMvpnMrouteMdtType

Command Mode

- /exec

show mvpn snmp mib mvpnMvrfNumber

show mvpn snmp mib mvpnMvrfNumber [__readonly__ <ciscoMvpnMvrfNumber>]

Syntax Description

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__	(Optional) Read Only
ciscoMvpnMvrfNumber	(Optional) mib object ciscoMvpnMvrfNumber

Command Mode

- /exec

show mvpn snmp mib mvpnNotificationEnable

show mvpn snmp mib mvpnNotificationEnable [__readonly__ <ciscoMvpnNotificationEnable>]

Syntax Description

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__	(Optional) Read Only
ciscoMvpnNotificationEnable	(Optional) mib object ciscoMvpnNotificationEnable

Command Mode

- /exec

show mvpn snmp mib mvpnTunnelTable

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

Syntax Description

Syntax Description

show	Show running system information
mvpn	Display Multicast VPN information
snmp	show snmp
mib	show mib tables
mvpnTunnelTable	show mib table mvpnTunnelTable
ifIndex-in	(Optional) Interface Index
__readonly__	(Optional)
TABLE_ciscoMvpnTunnelTable	(Optional)
ifIndex-out	(Optional) mib table index ifIndex
ciscoMvpnTunnelName	(Optional) mib object ciscoMvpnTunnelName
ciscoMvpnTunnelMvrf	(Optional) mib object ciscoMvpnTunnelMvrf

Command Mode

- /exec