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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
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

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
module	Module Number
count	(Optional) Number of entries
static	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
address	(Optional) address
address1	(Optional) address
mac-addr	(Optional) MAC Address
switch-id	(Optional) Remote Switch ID
swid	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
sswid	(Optional) Sub Switch ID
interface	(Optional) Interface
interface-name	(Optional) Interface name
vlan	(Optional) VLAN
vlan1	(Optional) VLAN
id	(Optional) VLAN ID
vdc	(Optional) VDC ID or Name
vdc1	(Optional) VDC ID or Name
vdc	(Optional) VDC ID

e-vdc	(Optional) Select VDC ID that match VDC Name
fe	(Optional) Forwarding Engine Instance ID(Zero based)
fe1	(Optional) Forwarding Engine Instance ID(Zero based)
feid	(Optional) FE ID value
hex	(Optional) display swid/sswid/lid in hex
__readonly__	(Optional)
header	(Optional) Header
pi_e	(Optional) Primary Interface of EARL
age	(Optional) Last seen age in seconds
rm	(Optional) RM
ifname	(Optional) interface name as string
sec	(Optional) secure
ntfy	(Optional) notify
entrycount	(Optional) Number of L2 entries
l2entry	(Optional) L2 Entry String
type	(Optional) MAC type - Static or Dynamic

Command Mode

- /exec

show mac address-table

show mac address-table [static | dynamic | secure] [local] [{ [address1 <mac-addr> | { switch-id <swid> [sub-switch-id <sswid>] } | vlan1 <id>] + } | { [address <mac-addr> | interface <interface-name> | vlan <id>] + } | { [address2 <mac-addr> | interface1 <interface-name> | vni <vni-id> | peer-ip <peer-ipv4>] + } | { [address3 <mac-addr> | interface2 <interface-name> | vni1 <vni-id> | es { <esid-opt1> | <esid-opt2> | all }] + }] [__readonly__ <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	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
local	(Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN
address	(Optional) address
address1	(Optional) address
address2	(Optional) address
address3	(Optional) address
mac-addr	(Optional) MAC Address
switch-id	(Optional) Remote Switch ID
swid	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
sswid	(Optional) Sub Switch ID
interface	(Optional) Interface
interface1	(Optional) Interface
interface-name	(Optional) Interface name
interface2	(Optional) Interface
interface-name	(Optional) Interface name

vlan	(Optional) VLAN
vlan1	(Optional) VLAN
id	(Optional) VLAN ID
vni	(Optional) VXLAN Network Identifier
vni1	(Optional) VXLAN Network Identifier
vni-id	(Optional) VXLAN Network Identifier
peer-ip	(Optional) VXLAN Peer IP Address
peer-ipv4	(Optional) VXLAN Peer IP Address
es	(Optional) EVPN Remote ESID
esid-opt1	(Optional) EE:EE:EE:EE:EE:EE:EE:EE:EE:EE ESID Option 1
esid-opt2	(Optional) EEEE.EEEE.EEEE.EEEE.EEEE ESID Option 2
all	(Optional) all ESIs
__readonly__	(Optional)
header	(Optional) Header
TABLE_mac_address	(Optional) Mac address table

Command Mode

- /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
__readonly__	(Optional)
age_str	(Optional) Age info
age	(Optional) Age time

Command Mode

- /exec

show mac address-table count

show mac address-table count [static | dynamic | secure] [local] [{ [interface <interface-name> | { switch-id <swid> [sub-switch-id <sswid>] } | vlan <id>] + } | { [interface1 <interface-name> | vni <vni-id> | peer-ip <peer-ipv4>] + }] [__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	(Optional) Display Static Entries
dynamic	(Optional) Display Dynamic Entries
secure	(Optional) Display Secure Entries
local	(Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN
vlan	(Optional) VLAN
id	(Optional) VLAN ID
interface	(Optional) Interface
interface1	(Optional) Interface
interface-name	(Optional) Interface name
switch-id	(Optional) Remote Switch ID
swid	(Optional) Switch ID
sub-switch-id	(Optional) Remote Sub Switch ID
sswid	(Optional) Sub Switch ID
vni	(Optional) VXLAN Network Identifier
vni-id	(Optional) VXLAN Network Identifier
peer-ip	(Optional) VXLAN Peer IP Address
peer-ipv4	(Optional) VXLAN Peer IP Address
__readonly__	(Optional)
TABLE-macaddtblcount	(Optional) MAC Address Dynamic Count Table

id-out	(Optional) MAC Address Table VLAN ID
count_str	(Optional) Count info
total_cnt	(Optional) Total count
dyn_cnt	(Optional) Dynamic count
static_cnt	(Optional) Static count
secure_cnt	(Optional) Secure count
otv_cnt	(Optional) OTV count

Command Mode

- /exec

show mac address-table count es

show mac address-table count es { <es-id> | <es-id2> | all }

Syntax Description

show	show
mac	MAC configuration commands
address-table	MAC Address Table
count	Number of MAC entries
es	EVPN Remote ESID
es-id	EE:EE:EE:EE:EE:EE:EE:EE:EE:EE ESID
es-id2	EEEE.EEEE.EEEE.EEEE.EEEE ESID
all	all ESIs

Command Mode

- /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
vlan	(Optional) VLAN
id	(Optional) VLAN ID
__readonly__	(Optional)
learning_mode_str	(Optional) Learning Mode
vlan_id	(Optional) VLAN ID
mode_str	(Optional) Mode

Command Mode

- /exec

show mac address-table loop-detect

show mac address-table loop-detect

Syntax Description

show	show
mac	MAC
address-table	MAC Address Table
loop-detect	Display Action for Mac Loop Detection

Command Mode

- /exec

show mac address-table multicast

show mac address-table multicast [vlan <vlan> | bridge-domain <bdid>] [__readonly__ [TABLE_vlan <vlan-id> [TABLE_mac <mac-addr> <type> [TABLE_oif <oifs>]]]]

Syntax Description

show	Show running system information
mac	MAC configuration commands
address-table	MAC Address Table
multicast	mcast mac OIF Static Entry
vlan	(Optional) VLAN
vlan	(Optional) VLAN
bridge-domain	(Optional) BD
bdid	(Optional) BD
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
TABLE_mac	(Optional)
mac-addr	(Optional)
type	(Optional)
TABLE_oif	(Optional)
oifs	(Optional)

Command Mode

- /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
__readonly__	(Optional) Read Only
TABLE_mac_notif	(Optional) Mac address notification table
disp_mm_status	(Optional) Mac Move Status
disp_mm_triggers	(Optional) # of triggers
disp_macs_added	(Optional) Number of MACs added since system bring up
disp_macs_removed	(Optional) Number of MACs removed since system bring up
disp_macs_moved	(Optional) Number of MACs moved since system bring up

Command Mode

- /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
vdc_id	please enter vdc id
__readonly__	(Optional)
vdc_id	(Optional)
mac_address	(Optional)

Command Mode

- /exec

show macsec mka

show macsec mka [summary] [__readonly__ { TABLE_mka_summary <ifname> <status> <cipher> <keyserver> <policy> <keychain> }]

Syntax Description

show	Show running system information
macsec	Show MACSEC information
mka	Show MKA information
summary	(Optional) Show MKA summary information
__readonly__	(Optional)
TABLE_mka_summary	(Optional)
ifname	(Optional) Interface
status	(Optional) MACSEC Session status
cipher	(Optional) Operational MACSEC Cipher-suite
keyserver	(Optional) Is this acting as interface key-server
policy	(Optional) MACSEC Policy applied to interface
keychain	(Optional) Keychain associated with interface

Command Mode

- /exec

show macsec mka session

show macsec mka session [interface <ifname>] [details] [__readonly__ [TABLE_mka_session <ifname> <sci> <peers> <status> <keyserver>] [<sessions> <active_sessions> <pending_sessions>] [TABLE_mka_session_details <ifname> <status> <sci> <ssci> <port_id> <ckn> <mi> <mn> <policy> <ks_prio> <keyserver> <cipher> <cipher_operational> <window> <conf_offset> <conf_offset_operational> <sak_status> <sak_an> <sak_ki> <sak_kn> <last_sak_rekey_time>]]

Syntax Description

show	Show running system information
macsec	Show MACSEC information
mka	Show MKA information
session	Show MKA session information
interface	(Optional) Specify interface
ifname	(Optional) Interface list
details	(Optional) Show MKA detailed information
__readonly__	(Optional)
TABLE_mka_session	(Optional)
ifname	(Optional) Interface
sci	(Optional) Interface local TxSCI
peers	(Optional) Number of Peers
status	(Optional) Macsec status of Interface
keyserver	(Optional) Interface keyserver
TABLE_mka_session_details	(Optional)
ifname	(Optional) Interface
status	(Optional) Session Status
sci	(Optional) Interface local TxSCI
ssci	(Optional) Interface local TxSSCI
port_id	(Optional) MKA Port Identifier
ckn	(Optional) CAK Name
mi	(Optional) Member Identifier
mn	(Optional) Message Number

policy	(Optional) MACSEC Policy
ks_prio	(Optional) Key-server Priority
keyserver	(Optional) Key-server
cipher	(Optional) MKA Cipher Suite
cipher_operational	(Optional) MKA Cipher Suite Operational
window	(Optional) Replay Window Size
conf_offset	(Optional) Confidentiality Offset
conf_offset_operational	(Optional) Confidentiality Offset Operational
sak_status	(Optional) SAK Status
sak_an	(Optional) SAK AN
sak_ki	(Optional) SAK KI
sak_kn	(Optional) SAK KN
last_sak_rekey_time	(Optional) Last SAK rekey
sessions	(Optional) Total number of Sessions
active_sessions	(Optional) Count of Active Sessions
pending_sessions	(Optional) Count of Pending Sessions

Command Mode

- /exec

show macsec mka statistics

show macsec mka statistics [interface <ifname>] [__readonly__ [TABLE_mka_intf_stats [[<ifname2>] [TABLE_ca_stats [[<ca_stat_ckn>] [<ca_stat_pairwise_cak_rekey>] [<sa_stat_sak_generated>] [<sa_stat_sak_rekey>] [<sa_stat_sak_received>] [<sa_stat_sak_response_rx>] [<mkpdu_stat_mkpdu_tx>] [<mkpdu_stat_mkpdu_tx_distsak>] [<mkpdu_stat_mkpdu_rx>] [<mkpdu_stat_mkpdu_rx_distsak>]]] [TABLE_idb_stats [[<ca_stat_pairwise_cak_rekey>] [<sa_stat_sak_generated>] [<sa_stat_sak_rekey>] [<sa_stat_sak_received>] [<sa_stat_sak_response_rx>] [<mkpdu_stat_mkpdu_tx>] [<mkpdu_stat_mkpdu_tx_distsak>] [<mkpdu_stat_mkpdu_rx>] [<mkpdu_stat_mkpdu_rx_distsak>] [<idb_stat_mkpdu_tx_success>] [<idb_stat_mkpdu_tx_fail>] [<idb_stat_mkpdu_tx_pkt_build_fail>] [<idb_stat_mkpdu_no_tx_on_intf_down>] [<idb_stat_mkpdu_no_rx_on_intf_down>] [<idb_stat_mkpdu_rx_ca_notfound>] [<idb_stat_mkpdu_rx_error>] [<idb_stat_mkpdu_rx_success>] [<idb_stat_mkpdu_failure_rx_integrity_check_error>] [<idb_stat_mkpdu_failure_invalid_peer_mn_error>] [<idb_stat_mkpdu_failure_nonrecent_peerlist_mn_error>] [<idb_stat_mkpdu_failure_sakuse_kn_mismatch_error>] [<idb_stat_mkpdu_failure_sakuse_rx_not_set_error>] [<idb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error>] [<idb_stat_mkpdu_failure_sakuse_an_not_in_use_error>] [<idb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error>] [<idb_stat_mkpdu_failure_sakuse_eapol_ethertype_mismatch_error>] [<idb_stat_sak_failure_sak_generate_error>] [<idb_stat_sak_failure_hash_generate_error>] [<idb_stat_sak_failure_sak_encryption_error>] [<idb_stat_sak_failure_sak_decryption_error>] [<idb_stat_sak_failure_ick_derivation_error>] [<idb_stat_sak_failure_kek_derivation_error>] [<idb_stat_sak_failure_invalid_macsec_capability_error>] [<idb_stat_macsec_failure_rx_sa_create_error>] [<idb_stat_macsec_failure_tx_sa_create_error>]]]] [TABLE_mka_gbl_stats [[<session_secured>] [<session_deleted>] [<session_keepalive_timeout>] [<ca_stat_pairwise_cak_rekey>] [<sa_stat_sak_generated>] [<sa_stat_sak_rekey>] [<sa_stat_sak_received>] [<sa_stat_sak_response_rx>] [<mkpdu_stat_mkpdu_rx>] [<mkpdu_stat_mkpdu_rx_distsak>] [<mkpdu_stat_mkpdu_tx>] [<mkpdu_stat_mkpdu_tx_distsak>] [<mka_error_session_failure_bring_up_error>] [<mka_error_sak_failure_sak_generate_error>] [<mka_error_sak_failure_hash_generate_error>] [<mka_error_sak_failure_sak_encryption_error>] [<mka_error_sak_failure_sak_decryption_error>] [<mka_error_sak_failure_sak_cipher_mismatch_error>] [<mka_error_ca_failure_ick_derivation_error>] [<mka_error_ca_failure_kek_derivation_error>] [<mka_error_ca_failure_invalid_macsec_capability_error>] [<mka_error_macsec_failure_rx_sa_create_error>] [<mka_error_macsec_failure_tx_sa_create_error>] [<mka_error_mkpdu_failure_mkpdu_tx_error>] [<mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error>] [<mka_error_mkpdu_failure_mkpdu_invalid_peer_mn_error>] [<mka_error_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_error>] [<mka_error_mkpdu_failure_sakuse_kn_mismatch_error>] [<mka_error_mkpdu_failure_sakuse_rx_not_set_error>] [<mka_error_mkpdu_failure_sakuse_key_mi_mismatch_error>] [<mka_error_mkpdu_failure_sakuse_an_not_in_use_error>] [<mka_error_mkpdu_failure_sakuse_ks_rx_tx_not_set_error>] [<global_stats_mkpdu_rx_invalid_ckn>] [<global_stats_mkpdu_tx_pkt_build_fail>]]]]]

Syntax Description

show	Show running system information
macsec	Show MACSEC information
mka	Show MKA information

statistics	Show MKA statistics
interface	(Optional) Specify interface
ifname	(Optional) Interface list
__readonly__	(Optional)
TABLE_mka_intf_stats	(Optional) MKA Interface statistics
TABLE_ca_stats	(Optional) CA Statistics
ca_stat_ckn	(Optional) CA Statistics CKN
ca_stat_pairwise_cak_rekey	(Optional) CA Statistics Pairwise CAK Rekey
sa_stat_sak_generated	(Optional) SA Statistics SAK generated
sa_stat_sak_rekey	(Optional) SA Statistics SAK rekey
sa_stat_sak_received	(Optional) SA Statistics SAK received
sa_stat_sak_response_rx	(Optional) SA Statistics SAK response received
mkpdu_stat_mkpdu_tx	(Optional) MKPDU Statistics MKPDU Tx
mkpdu_stat_mkpdu_tx_distsak	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
mkpdu_stat_mkpdu_rx	(Optional) MKPDU Statistics MKPDU Rx
mkpdu_stat_mkpdu_rx_distsak	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
TABLE_idb_stats	(Optional) IDB Statistics
ca_stat_pairwise_cak_rekey	(Optional) CA Statistics pairwise CAK rekey
sa_stat_sak_generated	(Optional) SA Statistics SAK generated
sa_stat_sak_rekey	(Optional) SA Statistics SAK rekey
sa_stat_sak_received	(Optional) SA Statistics SAK received
sa_stat_sak_response_rx	(Optional) SA Statistics SAK response received
mkpdu_stat_mkpdu_tx	(Optional) MKPDU Statistics MKPDU Tx
mkpdu_stat_mkpdu_tx_distsak	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
mkpdu_stat_mkpdu_rx	(Optional) MKPDU Statistics MKPDU Rx
mkpdu_stat_mkpdu_rx_distsak	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
idb_stat_mkpdu_tx_success	(Optional) IDB Statistics MKPDU Tx success
idb_stat_mkpdu_tx_fail	(Optional) IDB Statistics MKPDU Tx fail
idb_stat_mkpdu_tx_pkt_build_fail	(Optional) IDB Statistics MKPDU Tx packet build fail

idb_stat_mkpdu_no_tx_on_intf_down	(Optional) IDB Statistics MKPDU no Tx on interface down
idb_stat_mkpdu_no_rx_on_intf_down	(Optional) IDB Statistics MKPDU no Rx on interface down
idb_stat_mkpdu_rx_ca_notfound	(Optional) IDB Statistics MKPDU Rx CA not found
idb_stat_mkpdu_rx_error	(Optional) IDB Statistics MKPDU Rx error
idb_stat_mkpdu_rx_success	(Optional) IDB Statistics MKPDU Rx success
idb_stat_mkpdu_failure_rx_integrity_check_error	(Optional) IDB Statistics - MKPDU failure - Rx integrity check error
idb_stat_mkpdu_failure_invalid_peer_mn_error	(Optional) IDB Statistics - MKPDU failure - invalid peer MN error
idb_stat_mkpdu_failure_nonrecent_peerlist_mn_error	(Optional) IDB Statistics - MKPDU failure - non recent peerlist MN error
idb_stat_mkpdu_failure_sakuse_kn_mismatch_error	(Optional) IDB Statistics - MKPDU failure - SAKuse KN mismatch error
idb_stat_mkpdu_failure_sakuse_rx_not_set_error	(Optional) IDB Statistics - MKPDU failure - SAKuse Rx not set error
idb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error	(Optional) IDB Statistics - MKPDU failure - SAKuse key MI mismatch error
idb_stat_mkpdu_failure_sakuse_an_not_in_use_error	(Optional) IDB Statistics - MKPDU failure - SAKuse AN not in use error
idb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error	(Optional) IDB Statistics - MKPDU failure - SAKuse KS Rx Tx not set error
idb_stat_mkpdu_failure_sakuse_eapol_ethertype_mismatch_error	(Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL ethertype mismatch error
idb_stat_sak_failure_sak_generate_error	(Optional) IDB Statistics - SAK failure - SAK generate error
idb_stat_sak_failure_hash_generate_error	(Optional) IDB Statistics - SAK failure - Hash generate error
idb_stat_sak_failure_sak_encryption_error	(Optional) IDB Statistics - SAK failure - SAK encryption error
idb_stat_sak_failure_sak_decryption_error	(Optional) IDB Statistics - SAK failure - SAK decryption error
idb_stat_sak_failure_ick_derivation_error	(Optional) IDB Statistics - SAK failure - ICK derivation error
idb_stat_sak_failure_kek_derivation_error	(Optional) IDB Statistics - SAK failure - KEK derivation error
idb_stat_sak_failure_invalid_macsec_capability_error	(Optional) IDB Statistics - SAK failure - invalid MACsec capability error
idb_stat_macsec_failure_rx_sa_create_error	(Optional) IDB Statistics - SAK failure - Rx SA create error
idb_stat_macsec_failure_tx_sa_create_error	(Optional) IDB Statistics - SAK failure - Tx SA create error
TABLE_mka_gbl_stats	(Optional) MKA Global Statistics
session_secured	(Optional) Session secured

session_deleted	(Optional) Session deleted
session_keepalive_timeout	(Optional) Session keepalive timeout
ca_stat_pairwise_cak_rekey	(Optional) CA Statistics pairwise CAK rekey
sa_stat_sak_generated	(Optional) SA Statistics SAK generated
sa_stat_sak_rekey	(Optional) SA Statistics SAK rekey
sa_stat_sak_received	(Optional) SA Statistics SAK received
sa_stat_sak_response_rx	(Optional) SA Statistics SAK response received
mkpdu_stat_mkpdu_rx	(Optional) MKPDU Statistics MKPDU received
mkpdu_stat_mkpdu_rx_distsak	(Optional) MKPDU Statistics MKPDU received distributed SAK
mkpdu_stat_mkpdu_tx	(Optional) MKPDU Statistics MKPDU transmitted
mkpdu_stat_mkpdu_tx_distsak	(Optional) MKPDU Statistics MKPDU transmitted distributed SAK
mka_error_session_failure_bring_up_error	(Optional) MKA Error - Session failure - Bring up error
mka_error_sak_failure_sak_generate_error	(Optional) MKA Error - SAK failure - SAK generate error
mka_error_sak_failure_hash_generate_error	(Optional) MKA Error - SAK failure - Hash generate error
mka_error_sak_failure_sak_encryption_error	(Optional) MKA Error - SAK failure - SAK encryption error
mka_error_sak_failure_sak_decryption_error	(Optional) MKA Error - SAK failure - SAK decryption error
mka_error_sak_failure_sak_cipher_mismatch_error	(Optional) MKA Error - SAK failure - SAK Cipher mismatch error
mka_error_ca_failure_ick_derivation_error	(Optional) MKA Error - CA failure - ICK derivation error
mka_error_ca_failure_kek_derivation_error	(Optional) MKA Error - CA failure - KEK derivation error
mka_error_ca_failure_invalid_macsec_capability_error	(Optional) MKA Error - CA failure - Invalid MACsec capability error
mka_error_macsec_failure_rx_sa_create_error	(Optional) MKA Error - MACsec failure - Rx SA create error
mka_error_macsec_failure_tx_sa_create_error	(Optional) MKA Error - MACsec failure - Tx SA create error
mka_error_mkpdu_failure_mkpdu_tx_error	(Optional) MKA Error - MKPDU failure - MKPDU Tx error
mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error	(Optional) MKA Error - MKPDU failure - MKPDU Rx integrity check error
mka_error_mkpdu_failure_mkpdu_invalid_peer_mn_error	(Optional) MKA Error - MKPDU failure - invalid peer MN error
mka_error_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_error	(Optional) MKA Error - MKPDU failure - non recent peerlist MN error
mka_error_mkpdu_failure_sakuse_kn_mismatch_error	(Optional) MKA Error - MKPDU failure - SAKuse KN mismatch error
mka_error_mkpdu_failure_sakuse_rx_not_set_error	(Optional) MKA Error - MKPDU failure - SAKuse Rx not set error

mka_error_mkpdu_failure_sakuse_key_mi_mismatch_error	(Optional) MKA Error - MKPDU failure - SAKuse key MI mismatch error
mka_error_mkpdu_failure_sakuse_an_not_in_use_error	(Optional) MKA Error - MKPDU failure - SAKuse AN not in use error
mka_error_mkpdu_failure_sakuse_ks_rx_tx_not_set_error	(Optional) MKA Error - MKPDU failure - SAKuse KS Rx Tx not set error
global_stats_mkpdu_rx_invalid_ckn	(Optional) Global Statistics MKPDU received invalid CKN
global_stats_mkpdu_tx_pkt_build_fail	(Optional) Global Statistics Transmit Pkt build fail
ifname2	(Optional) MACSEC Interface Name

Command Mode

- /exec

show macsec policy

show macsec policy [<policy_name>] [__readonly__ { TABLE_macsec_policy <name> <cipher_suite> <keyserver_priority> <window_size> <conf_offset> <security_policy> <sak-expiry-time> }]

Syntax Description

show	Show running system information
macsec	Show MACSEC policy information
policy	Show MACSEC policy information
policy_name	(Optional) Name of MACSEC Policy
__readonly__	(Optional)
TABLE_macsec_policy	(Optional)
name	(Optional) MACSEC Policy Name
cipher_suite	(Optional) Cipher Suite
keyserver_priority	(Optional) KeyServer Priority
window_size	(Optional) Window Size
conf_offset	(Optional) Confidentiality Offset
security_policy	(Optional) Security Policy
sak-expiry-time	(Optional) SAK expiry on time interval

Command Mode

- /exec

show macsec secy statistics

show macsec secy statistics [interface <ifname>] [__readonly__ TABLE_statistics <ifname2> [<in_pkts_unicast_uncontrolled>] [<in_pkts_multicast_uncontrolled>] [<in_pkts_broadcast_uncontrolled>] [<in_rx_drop_pkts_uncontrolled>] [<in_rx_err_pkts_uncontrolled>] [<in_pkts_unicast_controlled>] [<in_pkts_multicast_controlled>] [<in_pkts_broadcast_controlled>] [<in_rx_drop_pkts_controlled>] [<in_rx_err_pkts_controlled>] [<in_octets_uncontrolled>] [<in_octets_controlled>] [<input_rate_uncontrolled_pps>] [<input_rate_uncontrolled_bps>] [<input_rate_controlled_pps>] [<input_rate_controlled_bps>] [<out_pkts_unicast_uncontrolled>] [<out_pkts_multicast_uncontrolled>] [<out_pkts_broadcast_uncontrolled>] [<out_rx_drop_pkts_uncontrolled>] [<out_rx_err_pkts_uncontrolled>] [<out_pkts_unicast_controlled>] [<out_pkts_multicast_controlled>] [<out_pkts_broadcast_controlled>] [<out_rx_drop_pkts_controlled>] [<out_rx_err_pkts_controlled>] [<out_octets_uncontrolled>] [<out_octets_controlled>] [<out_octets_common>] [<output_rate_uncontrolled_pps>] [<output_rate_uncontrolled_bps>] [<output_rate_controlled_pps>] [<output_rate_controlled_bps>] [<in_pkts_transform_error>] [<in_pkts_control>] [<in_pkts_untagged>] [<in_pkts_no_tag>] [<in_pkts_badtag>] [<in_pkts_no_sci>] [<in_pkts_unknown_sci>] [<in_pkts_tagged_ctrl>] [<out_pkts_transform_error>] [<out_pkts_control>] [<out_pkts_untagged>] [TABLE_rx_sa_an <rx_sa_an> [<in_pkts_unchecked>] [<in_pkts_delayed>] [<in_pkts_late>] [<in_pkts_ok>] [<in_pkts_invalid>] [<in_pkts_not_valid>] [<in_pkts_not_using_sa>] [<in_pkts_unused_sa>] [<in_octets_decrypted>] [<in_octets_validated>]] [TABLE_tx_sa_an <tx_sa_an> [<out_pkts_encrypted_protected>] [<out_pkts_too_long>] [<out_pkts_sa_not_inuse>] [<out_octets_encrypted_protected>]]]

Syntax Description

show	Show running system information
macsec	Show MACSEC information
secy	Show MACSEC secy entity information
statistics	Show MACSEC secy statistics
interface	(Optional) Specify interface
ifname	(Optional) Interface list
__readonly__	(Optional)
TABLE_statistics	(Optional) MACsec secy statistics
in_pkts_unicast_uncontrolled	(Optional) In Pkts Unicast Uncontrolled
in_pkts_multicast_uncontrolled	(Optional) In Pkts Multicast Uncontrolled
in_pkts_broadcast_uncontrolled	(Optional) In Pkts Broadcast Uncontrolled
in_rx_drop_pkts_uncontrolled	(Optional) In Rx Drop Pkts Uncontrolled
in_rx_err_pkts_uncontrolled	(Optional) In Rx Err Pkts Uncontrolled
in_pkts_unicast_controlled	(Optional) In Pkts Unicast Controlled
in_pkts_multicast_controlled	(Optional) In Pkts Multicast Controlled

in_pkts_broadcast_controlled	(Optional) In Pkts Broadcast Controlled
in_rx_drop_pkts_controlled	(Optional) In Rx Drop Pkts Controlled
in_rx_err_pkts_controlled	(Optional) In Rx Err Pkts Controlled
in_octets_uncontrolled	(Optional) In Octets Uncontrolled
in_octets_controlled	(Optional) In Octets Controlled
input_rate_uncontrolled_bps	(Optional) Input Rate Uncontrolled BPS
input_rate_uncontrolled_pps	(Optional) Input Rate Uncontrolled PPS
input_rate_controlled_bps	(Optional) Input Rate Controlled BPS
input_rate_controlled_pps	(Optional) Input Rate Controlled PPS
out_pkts_unicast_uncontrolled	(Optional) Out Pkts Unicast Uncontrolled
out_pkts_multicast_uncontrolled	(Optional) Out Pkts Multicast Uncontrolled
out_pkts_broadcast_uncontrolled	(Optional) Out Pkts Broadcast Uncontrolled
out_rx_drop_pkts_uncontrolled	(Optional) Out Rx Drop Pkts Uncontrolled
out_rx_err_pkts_uncontrolled	(Optional) Out Rx Err Pkts Uncontrolled
out_pkts_unicast_controlled	(Optional) Out Pkts Unicast Controlled
out_pkts_multicast_controlled	(Optional) Out Pkts Multicast Controlled
out_pkts_broadcast_controlled	(Optional) Out Pkts Broadcast Controlled
out_rx_drop_pkts_controlled	(Optional) Out Rx Drop Pkts Controlled
out_rx_err_pkts_controlled	(Optional) Out Rx Err Pkts Controlled
out_octets_uncontrolled	(Optional) Out Octets Uncontrolled
out_octets_controlled	(Optional) Out Ocets Controlled
out_octets_common	(Optional) Out Octets Common
output_rate_uncontrolled_bps	(Optional) Output Rate Uncontrolled BPS
output_rate_uncontrolled_pps	(Optional) Output Rate Uncontrolled PPS
output_rate_controlled_bps	(Optional) Output Rate Controlled BPS
output_rate_controlled_pps	(Optional) Output Rate Controlled PPS
in_pkts_transform_error	(Optional) In Pkts Transform Error
in_pkts_control	(Optional) In Pkts Control
in_pkts_untagged	(Optional) In Pkts Untagged

in_pkts_no_tag	(Optional) In Pkts No Tag
in_pkts_badtag	(Optional) In Pkts Bad Tag
in_pkts_no_sci	(Optional) In Pkts No SCI
in_pkts_unknown_sci	(Optional) In Pkts Unknown SCI
in_pkts_tagged_ctrl	(Optional) In Pkts Tagged Control
out_pkts_transform_error	(Optional) Out Pkts Transform Error
out_pkts_control	(Optional) Out Pkts Control
out_pkts_untagged	(Optional) Out Pkts Untagged
TABLE_rx_sa_an	(Optional) MACsec secy rx_sa_an statistics
rx_sa_an	(Optional) Rx SA AN
in_pkts_unchecked	(Optional) In Pkts Unchecked
in_pkts_delayed	(Optional) In Pkts Delayed
in_pkts_late	(Optional) In Pkts Late
in_pkts_ok	(Optional) In Pkts OK
in_pkts_invalid	(Optional) In Pkts Invalid
in_pkts_not_valid	(Optional) In Pkts not Valid
in_pkts_not_using_sa	(Optional) In Pkts not using SA
in_pkts_unused_sa	(Optional) In Pkts Unused SA
in_octets_decrypted	(Optional) In Octets Decrypted
in_octets_validated	(Optional) In Octets Validated
TABLE_tx_sa_an	(Optional) MACsec secy tx_sa_an statistics
tx_sa_an	(Optional) Tx SA AN
out_pkts_encrypted_protected	(Optional) Out Pkts Encrypted Protected
out_pkts_too_long	(Optional) Out Pkts too Long
out_pkts_sa_not_inuse	(Optional) Out Pkts SA not in use
out_octets_encrypted_protected	(Optional) Out octets Encrypted Protected
ifname2	(Optional) MACSEC Interface Name

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

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

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

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

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

Command Mode

- /exec

show mcectest

show mcectest <arg> [__readonly__ <arg_resp>]

Syntax Description

mcectest	Show MCECTEST related information
arg	Enter your arguments
__readonly__	(Optional) Read Only
arg_resp	(Optional) Response

Command Mode

- /exec

show mcectest mcec interface

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

Syntax Description

mcectest	Show MCECTEST related information
mcec	Show MCECM information
if	
use-cache	(Optional) Use cache
vdc-id	(Optional) VDC ID
readonly	(Optional)
mcec_mode	(Optional) MCEC port mode

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

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

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

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 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	(Optional) Show information for all FEX
i	(Optional) Enter FEX identifier
__readonly__	(Optional)
TABLE_modinfo	(Optional) Show Module info
fexinf	(Optional) Fex
modinf	(Optional) Module
ports	(Optional) Num Ports
modtype	(Optional) Module Type
model	(Optional) Model
status	(Optional) Status
TABLE_modwwninfo	(Optional) Mod WWN Info
fexwwn	(Optional) Fex
modwwn	(Optional) Module
sw	(Optional) SW Ver
hw	(Optional) HW Ver
wwn	(Optional) WWN
TABLE_modmacinfo	(Optional) Mod MAC Info
fexmac	(Optional) Fex
modmac	(Optional) Module
mac	(Optional) MAC
serialnum	(Optional) Serial Num

Command Mode

- /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 Mode

- /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__	(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

show monitor [__readonly__ TABLE_session <session_number> <state> <state_reason> <description>]

Syntax Description

show	Show running system information
monitor	Show Ethernet SPAN information
__readonly__	(Optional) Read only
TABLE_session	(Optional) show monitor
session_number	(Optional) session id
state	(Optional) State
state_reason	(Optional) State reason
description	(Optional) Session Description

Command Mode

- /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>] + [<erspan_egress_if>] + [<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
session_number	
range	Specify a range
session_range	
brief	(Optional) Brief information
__readonly__	(Optional) Read only
TABLE_session	(Optional) show monitor
flow_id	(Optional) erspan-id
description	(Optional) Session Description
err_desc	(Optional) Error Description
type	(Optional) Session type
state	(Optional) State
state_reason	(Optional) State reason
session_mode	(Optional) Session mode
sources_rx	(Optional) List of ingress sources
sources_tx	(Optional) List of egress sources
sources_both	(Optional) List of sources in both directions

span_mtu	(Optional) SPAN MTU value
span_rate	(Optional) SPAN rate limit value
span_sampling	(Optional) SPAN sampling range
destinations	(Optional) List of destinations
acl_destinations	(Optional) List of interfaces that wont work for acl capture
dst_ip	(Optional) ERSPAN destination IP
erspan_egress_if	(Optional) Egress interface for ERSPAN SRC session
src_ip	(Optional) ERSPAN source IP
origin_ip	(Optional) ERSPAN origin IP at source router
erspan_id	(Optional) ERSPAN ID Value
vrf_name	(Optional) ERSPAN session VRF
acl_name	(Optional) ERSPAN session ACL
erspan_ttl	(Optional) ERSPAN TTL Value
erspan_dscp	(Optional) ERSPAN DSCP Value
source_vlans_rx	(Optional) Source ingress vlan
source_vlans_tx	(Optional) Source egress vlan
source_vlans_both	(Optional) Source vlans in both directions
filter_vlans	(Optional) Filter vlans
tree-id	(Optional) proxy layer2 gateway source tree-id
switchid	(Optional) proxy layer2 gateway source switchid
sampling_capability	(Optional) List of modules that support Sampling
mtu_capability	(Optional) List of modules that support MTU
l3_egress_span	(Optional) List of modules that support L3 Multicast Egress SPAN
fex_ingress_intf	(Optional) List of fex interfaces that wont work for ingress span
rate_limit_cap	(Optional) List of modules that support Rate Limit
mcbe	(Optional) List all modules that support multicast best effort
switch_id	(Optional) erspan_switch-id
erspan_v3_cap	(Optional) List of modules that support erspan version3
erspan_v2_cap	(Optional) List of modules that support erspan version2

erspan_acl	(Optional) List of modules that support ERSPAN ACL filtering
version	(Optional) Erspan source version: v2/v3
erspan_gran_cap	(Optional) List of modules that support the granularity set
erspan_granularity	(Optional) ERSPAN Type III Granularity

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

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

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

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 statistics

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

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] [__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>] [{ TABLE_bnd_peer_list <peer_ident> }] [<remote_label>] [<remote_lsr>] [<rem_lbl_in_use>] [<stale_gr>] [<advert_acl_pending>] [<peer_acl>] [<prefix_acl>] } }]

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
__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
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 bindings summary

show mpls ip bindings summary [__readonly__ { TABLE_bnd <total_prefixes> <assigned_bindings> <local_bindings> <rem_bindings> <total_rt_info> <current_prev_lbl_entries> <total_prev_lbl_entries> <current_prev_lbl_queues> <total_prev_lbl_queues> }]

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)
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
assigned_bindings	(Optional) Total number of assigned bindings
total_rt_info	(Optional) Total tib route info alloced
local_bindings	(Optional) Total number of locally assigned bindings
rem_bindings	(Optional) Total number of remote bindings
current_prev_lbl_entries	(Optional) Current number of previous tib remote label entries allocated
total_prev_lbl_entries	(Optional) Total number of previous tib remote label entries allocated
current_prev_lbl_queues	(Optional) Current number of previous tib remote label queues allocated
total_prev_lbl_queues	(Optional) Total number of previous tib remote label queues allocated

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

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

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

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

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>] [{ TABLE_bnd_peer_list <peer_ident> }] [{ TABLE_bnd_remote [<remote_lsr>] [<remote_label>] [<rem_lbl_in_use>] [<stale_gr>] }] [<advert_acl_pending>] [<peer_acl>] [<prefix_acl>] }] }]

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
TABLE_bnd_remote	(Optional) Remote bindings
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> <assigned_bindings> <local_bindings> <rem_bindings> <total_rt_info> <current_prev_lbl_entries> <total_prev_lbl_entries> <current_prev_lbl_queues> <total_prev_lbl_queues> }]

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
assigned_bindings	(Optional) Total number of assigned bindings
total_rt_info	(Optional) Total tib route info alloced
local_bindings	(Optional) Total number of locally assigned bindings
rem_bindings	(Optional) Total number of remote bindings
current_prev_lbl_entries	(Optional) Current number of previous tib remote label entries allocated
total_prev_lbl_entries	(Optional) Total number of previous tib remote label entries allocated
current_prev_lbl_queues	(Optional) Current number of previous tib remote label queues allocated
total_prev_lbl_queues	(Optional) Total number of previous tib remote label queues allocated

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

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

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

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> { TABLE_gr_sess_inst <gr-sess-peer-id> <gr-sess-state> } }]]

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
TABLE_gr_sess_inst	(Optional) LDP GR session instance information
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

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 neighbor

show mpls ldp neighbor [vrf { <vrf-name> | <vrf-known-name> | all }] [<address> | <interface>] [capabilities | detail | graceful-restart | password] [__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>] [{ 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> }] [<peer_holdtime>] [<ka_interval>] [<peer_state>] [{ TABLE_client <client_name> }] [<inbound_filter>] [<sp_state> <sp_info> <sp_timer_left>] [<loop_det_peer> <loop_det_local> <pvl_peer> <pvl_local>] [{ TABLE_cap_sent <cap_sent_name> }] [{ TABLE_cap_rcvd <cap_rcvd_name> }] } }]

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
__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__ { TABLE_fctrl <fctrl_state> [<fctrl_compat_fset>] [{ TABLE_features <feature_name> }] [<feature_none>] } <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-st>] [<tgthello-acpt-fltr>] <max-hop-count> <targeted-session-st> <backoff-init-sec> <backoff-max-sec> <loop-detection-st> [<omit-xport-addr>] [<ignore-xport-addr>] [<hello-spoofing>]]

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-st	(Optional) LDP targeted hello accept
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
targeted-session-st	(Optional) Targeted session
backoff-init-sec	(Optional) LDP initial backoff in seconds
backoff-max-sec	(Optional) LDP maximum backoff in seconds

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

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

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

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 trace

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

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 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

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>] | aggregate [ipv4 | ipv6] [vrf <vrf-name>] | { fec { ipv4_prefix [vrf <vrf-name>] | ipv6_prefix [vrf <vrf-name>] | deagg [vrf <vrf-name>] | ias_vpnv4 | ias_vpnv6 } } | { 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>] [{ <ias_v4_prefix> | <ias_v6_prefix> } <ias_rd>] [<fec_none_label>] [<table_name>]]]]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
switching	Display the MPLS label switching database
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
aggregate	(Optional) Show aggregate-related information
intf	(Optional) Specify outgoing interface
summary	(Optional) Summarized information
detail	(Optional) Detailed information
ipv4_prefix	(Optional) IPv4 prefix
ipv6_prefix	(Optional) IPv6 prefix
ipv4	(Optional) Display IPv4 information
ipv6	(Optional) Display IPv6 information

deagg	(Optional) De-aggregation
ias_vpnv4	(Optional) Display Inter-AS V4 information
ias_vpnv6	(Optional) Display Inter-AS V6 information
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)
ias_v4_prefix	(Optional)
ias_v6_prefix	(Optional)
ias_rd	(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

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 traffic-eng

show mpls traffic-eng { fast-reroute database summary | tunnels fast-reroute summary | tunnels protection summary } [__readonly__ [<frr_num_lsps> <frr_num_active_lsps> <frr_backup_tunnels> <frr_active_intfs>]]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
fast-reroute	Fast Reroute information
database	Fast Reroute Database information
summary	Summary information
tunnels	MPLS traffic-eng tunnel status
protection	Failure protection provided for tunnels
summary	Summary information
fast-reroute	Fast Reroute information
summary	Summary information
__readonly__	(Optional)
frr_num_lsps	(Optional) num lsps
frr_num_active_lsps	(Optional) num active lsps
frr_backup_tunnels	(Optional) num backup tunnels
frr_active_intfs	(Optional) num active interfaces

Command Mode

- /exec

show mpls traffic-eng

show mpls traffic-eng { { fast-reroute database [destination <dest-addr>] [interface <intfc>] [backup-interface { <tunnel-intf> | unresolved }] [role { head | middle } | state { active | ready | requested }] [detail] } | { tunnels fast-reroute } } [__readonly__ [{ TABLE_frr_db <protected_tun> [<sprint_downlink_name> <sprint_tun_protected_bw> [<sprint_prot_bw>] [<backup_none> | <sprint_tun_backup_name> <sprint_tun_lsp_frr_out_active> <sprint_tun_frr_protect_level> <sprint_tun_frr_out_nnhop>]] }]]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
database	Fast Reroute Database information
destination	(Optional) Match LSP destination address
dest-addr	(Optional) Tunnel destination address
interface	(Optional) Match protected outgoing interface
intfc	(Optional)
backup-interface	(Optional) Match backup outgoing interface
tunnel-intf	(Optional) Tunnel interface
unresolved	(Optional) Unresolved backup interface
role	(Optional) Restrict display to LSPs with specified role
head	(Optional) LSPs that originate locally
middle	(Optional) LSPs that transit locally
state	(Optional) Restrict display to LSPs with specified FRR state
active	(Optional) LSPs with active FRR state
ready	(Optional) LSPs with ready FRR state
requested	(Optional) LSPs with requested FRR state
detail	(Optional) Detailed information
tunnels	MPLS traffic-eng tunnel status
fast-reroute	Fast Reroute information
__readonly__	(Optional)
TABLE_frr_db	(Optional) frr_db info

protected_tun	(Optional) protected tunnel
backup_none	(Optional) backup none
sprint_downlink_name	(Optional) sprint downlink name
sprint_tun_protected_bw	(Optional) sprint tun protected bw
sprint_prot_bw	(Optional) sprint protected flag
sprint_tun_backup_name	(Optional) sprint tun backup name
sprint_tun_lsp_frr_out_active	(Optional) sprint tun lsp frr out active
sprint_tun_frr_protect_level	(Optional) sprint tun frr protect level
sprint_tun_frr_out_nnhop	(Optional) sprint tun frr out nnhop

Command Mode

- /exec

show mpls traffic-eng autoroute

show mpls traffic-eng autoroute [<ipaddr>] [__readonly__ [<aa_enabled>] [{ TABLE_dest <aa_fa_tun_list_type> <aa_fa_igp_node_id> <aa_fa_igp_area_id> <aa_fa_tun_count> [{ TABLE_tunidx <aa_fa_intfc_name> [<aa_fa_load_balance_metric>] <aa_fa_nexthop_addr> [<aa_fa_metric_mode> <aa_fa_igp_metric>] <aa_set> <fa_set> [<fa_holdtime>] }] }]]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
autoroute	Autorouted tunnel destination information
ipaddr	(Optional) destination address for autorouted tunnels (A.B.C.D)
__readonly__	(Optional)
aa_enabled	(Optional) is autoroute enabled or disabled
TABLE_dest	(Optional) destination info
aa_fa_tun_list_type	(Optional) autoroute tun list type
aa_fa_igp_node_id	(Optional) autoroute igp node id
aa_fa_igp_area_id	(Optional) autoroute igp area id
aa_fa_tun_count	(Optional) autoroute tun count
TABLE_tunidx	(Optional) tunnel info
aa_fa_intfc_name	(Optional) autoroute intfc name
aa_fa_load_balance_metric	(Optional) autoroute load balance metric
aa_fa_nexthop_addr	(Optional) autoroute nexthop addr
aa_fa_metric_mode	(Optional) autoroute metric mode
aa_fa_igp_metric	(Optional) autoroute igp metric
aa_set	(Optional) autoroute announce
fa_set	(Optional) autoroute fwd adj
fa_holdtime	(Optional) autoroute fwd adj holdtime

Command Mode

- /exec

show mpls traffic-eng exp

show mpls traffic-eng exp [<ipaddr>] [__readonly__ [TABLE_bundles <exp_bundle_dest> <exp_bundle_master> <exp_bundle_master_state> [TABLE_exp_member <exp_bundle_member> <exp_bundle_member_state> <exp_bundle_member_conf_exp> <exp_bundle_member_actual_exp>]]]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
exp	MPLS traffic-eng tunnel exp information
ipaddr	(Optional) destination address of the master tunnel (A.B.C.D)
__readonly__	(Optional)
TABLE_bundles	(Optional) Bundle info
exp_bundle_dest	(Optional) Bundle tunnel destination
exp_bundle_master	(Optional) Bundle master tunnel name
exp_bundle_master_state	(Optional) Bundle master tunnel state
TABLE_exp_member	(Optional) Bundle member info
exp_bundle_member	(Optional) Bundle member tunnel name
exp_bundle_member_state	(Optional) Bundle member tunnel state
exp_bundle_member_conf_exp	(Optional) Bundle member tunnel configured exp
exp_bundle_member_actual_exp	(Optional) Bundle member tunnel actual exp

Command Mode

- /exec

show mpls traffic-eng explicit-paths

show mpls traffic-eng explicit-paths [detail | identifier <id> [detail] | name <name> [detail]] [__readonly__ { TABLE_explpath <eph_style> <eph_path_id_str> <eph_path_loose_strict> <eph_complete_flag> <eph_generation> [<eph_status>] { TABLE_nxtaddr <eph_idx> <eph_type> <eph_subtype> <eph_addr> [<eph_lasthop>] } }]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
explicit-paths	Show explicit paths
detail	(Optional) Show explicit paths in detail
identifier	(Optional) Show a specific numbered explicit path
id	(Optional) Enter path number
name	(Optional) Show a specific named explicit path
name	(Optional) Enter path name
__readonly__	(Optional)
TABLE_explpath	(Optional) explpath info
eph_style	(Optional) eph style
eph_path_id_str	(Optional) eph path id str
eph_path_loose_strict	(Optional) eph path loose strict
eph_complete_flag	(Optional) eph path complete flag
eph_generation	(Optional) eph generation
eph_status	(Optional) eph status
TABLE_nxtaddr	(Optional) next address
eph_idx	(Optional) eph idx
eph_type	(Optional) eph type
eph_subtype	(Optional) eph subtype
eph_addr	(Optional) eph addr
eph_lasthop	(Optional) eph lasthop

Command Mode

- /exec

show mpls traffic-eng forwarding-adjacency

show mpls traffic-eng forwarding-adjacency [<ipaddr>] [__readonly__ [<aa_enabled>] [{ TABLE_dest <aa_fa_tun_list_type> <aa_fa_igp_node_id> <aa_fa_igp_area_id> <aa_fa_tun_count> [{ TABLE_tunidx <aa_fa_intfc_name> [<aa_fa_load_balance_metric>] <aa_fa_nexthop_addr> [<aa_fa_metric_mode> <aa_fa_igp_metric>] <aa_set> <fa_set> [<fa_holdtime>] }] }]]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
forwarding-adjacency	forwarding-adjacency tunnel destination information
ipaddr	(Optional) destination address for forwarding-adjacency tunnels(A.B.C.D)
__readonly__	(Optional)
aa_enabled	(Optional) is autoroute enabled or disabled
TABLE_dest	(Optional) destination info
aa_fa_tun_list_type	(Optional) autoroute tun list type
aa_fa_igp_node_id	(Optional) autoroute igp node id
aa_fa_igp_area_id	(Optional) autoroute igp area id
aa_fa_tun_count	(Optional) autoroute tun count
TABLE_tunidx	(Optional) tunnel info
aa_fa_intfc_name	(Optional) autoroute intfc name
aa_fa_load_balance_metric	(Optional) autoroute load balance metric
aa_fa_nexthop_addr	(Optional) autoroute nexthop addr
aa_fa_metric_mode	(Optional) autoroute metric mode
aa_fa_igp_metric	(Optional) autoroute igp metric
aa_set	(Optional) autoroute announce
fa_set	(Optional) autoroute fwd adj
fa_holdtime	(Optional) autoroute fwd adj holdtime

Command Mode

- /exec

show mpls traffic-eng high-availability

show mpls traffic-eng high-availability { database [summary] | shared-database | sso-database | status } [__readonly__ <__dummy_string__> <__dummy_hex__> <__dummy_int__> <__dummy_unsigned__> <__dummy_long_unsigned__> <__dummy_long_long_unsigned__>]

Syntax Description

high-availability	MPLS TE HA information
database	MPLS TE checkpoint database
summary	(Optional) Summary counters only
shared-database	MPLS TE shared database
sso-database	MPLS TE SSO read-write databases
status	MPLS TE HA status and events
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
__dummy_string__	(Optional) dummy string
__dummy_hex__	(Optional) dummy hex
__dummy_int__	(Optional) dummy int
__dummy_unsigned__	(Optional) dummy unsigned
__dummy_long_unsigned__	(Optional) dummy long
__dummy_long_long_unsigned__	(Optional) dummy long long

Command Mode

- /exec

show mpls traffic-eng link-management

show mpls traffic-eng link-management { admission-control | interfaces | summary } [<intfc>] [__readonly__ [<tunnel_count> <gmpls_tunnel_count> <tunnels_selected> [{ TABLE_tunnels <tun_name> <uplink_name> <downlink_name> <priority_string> <tun_state> <bw_kbps> <bw_state> <bw_kind> }]] [<links_count> [<bw_hold_time>] [<flooding_system_status>] [{ TABLE_flooding <flooding_igp_area_id> <flooding_protocol> <flooding_status> <flooding_periodic_status> [<flooding_periodic_interval> <flooding_periodic_remaining>] [<number_of_flooded_links>] <flooding_igp_system_id> <flooding_rtr_ipaddress> <flooding_neighbor_count> }] [TABLE_links <link_name> [<link_ipaddress>] [[<link_is_numbered>] [<local_intfc_id>] [<rlp_capability> <rlp_working_priority>] [{ <srlg_group_none> | { TABLE_srlg <srlg_group_number> } }] { TABLE_ixcd <link_key> <intfc_switching_cap> <encoding> } [<link_label_type> <link_installed> [<link_local_label>]] <phys_bw> <phys_bw_units> [<model_id>] [<link_min_flow> <bw_units>] [<max_link_rsvbl_bw> <rsvbl_bw_units> <rsvd_up> <rsvd_down>] <max_global_rsvbl_bw> [<max_sub_rsvbl_bw>] <rsvbl_bw_units> <rsvd_up> <rsvd_down> [<bw_descriptors> [<descriptor_count> <descriptor_kind>]] <link_state> <admit_method_up> <admit_method_down> [<admin_weight> <admin_state> [<neighbor_interface_info> [<interface_name>] [{ TABLE_nbr_src [<neighbor_source>] }] [{ TABLE_ami_flags <ami_flag_string> } <interface_id> <sw_cap> <source_te_id> <source_up_down> <source_floodable> [<source_link_lable_id>]]] <igp_neighbor_count> [{ TABLE_igp <neighbor_id> [<neighbor_ipaddress>] [<neighbor_igp_area_id>] [<neighbor_link_name>] <neighbor_up_down> }] [<link_up_thresholds> <link_down_thresholds>]] [<flooded_areas> [{ TABLE_dlist <area_tag> <area_id> <area_flooding_status> [<area_not_flooded_reason>] }]] [{ TABLE_up_down <link_dir_name> <link_dir_bw_kind> <link_dir_bw_units> { TABLE_pool <link_bw_keep_prio> <link_bw_held> <link_bw_total_held> <link_bw_locked> <link_bw_total_locked> } }]]]]]

Syntax Description

link-management	Link Management information
admission-control	Link Management admission-control
interfaces	Link Management Traffic Engineering interfaces
summary	Link Management summary
intfc	(Optional)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
tunnel_count	(Optional) count of tunnels
gmpls_tunnel_count	(Optional) count of GMPLS tunnels
tunnels_selected	(Optional) count of tunnels selected
TABLE_tunnels	(Optional) tunnel information

tun_name	(Optional) tunnel name
uplink_name	(Optional) uplink name
downlink_name	(Optional) downlink name
priority_string	(Optional) priority string
tun_state	(Optional) tunnel state
bw_kbps	(Optional) bandwidth in KBps
bw_state	(Optional) bandwidth state
bw_kind	(Optional) bandwidth kind
links_count	(Optional) number of links
bw_hold_time	(Optional) bandwidth hold time
flooding_system_status	(Optional) flooding system status
TABLE_flooding	(Optional) flooding info
flooding_igp_area_id	(Optional) flooding IGP area ID
flooding_protocol	(Optional) flooding protocol
flooding_status	(Optional) flooding status
flooding_periodic_status	(Optional) flooding periodic status
flooding_periodic_interval	(Optional) flooding periodic interval
flooding_periodic_remaining	(Optional) flooding periodic remaining
number_of_flooded_links	(Optional) number of flooded links
flooding_igp_system_id	(Optional) flooding IGP system ID
flooding_rtr_ipaddress	(Optional) flooding router address
flooding_neighbor_count	(Optional) flooding neighbor count
TABLE_links	(Optional) table of information for each link
link_name	(Optional) link name
link_ipaddress	(Optional) link IP address
link_is_numbered	(Optional) whether or not the link is numbered
local_intfc_id	(Optional) local interface ID
rlp_capability	(Optional) RLP capability
rlp_working_priority	(Optional) RLP working priority

srlg_group_none	(Optional) no SRLG group numbers
TABLE_srlg	(Optional) SRLGs
srlg_group_number	(Optional) SRLG group number
TABLE_ixcd	(Optional) IXCD
link_key	(Optional) link key
intfc_switching_cap	(Optional) interface switching capacity
encoding	(Optional) interface encoding
link_label_type	(Optional) link label type
link_installed	(Optional) is link installed
link_local_label	(Optional) link local label
phys_bw	(Optional) link physical bandwidth
phys_bw_units	(Optional) link physical bandwidth units
model_id	(Optional) model ID (e.g., MAM, RDM)
link_min_flow	(Optional) link min flow
bw_units	(Optional) bandwidth units
max_link_rsvbl_bw	(Optional) link maximum reservable bandwidth
rsvbl_bw_units	(Optional) reservable bandwidth units
rsvd_up	(Optional) reserved up
rsvd_down	(Optional) reserved down
max_global_rsvbl_bw	(Optional) maximum global reservable bandwidth
max_sub_rsvbl_bw	(Optional) maximum subpool reservable bandwidth
bw_descriptors	(Optional) bandwidth descriptors
descriptor_count	(Optional) bandwidth descriptor count
descriptor_kind	(Optional) descriptor kind
link_state	(Optional) link state
admit_method_up	(Optional) admit method up
admit_method_down	(Optional) admit method down
admin_weight	(Optional) admin weight
admin_state	(Optional) admin state

neighbor_interface_info	(Optional) neighbor interface info
interface_name	(Optional) interface name
TABLE_nbr_src	(Optional) neighbor information
neighbor_source	(Optional) neighbor source
TABLE_ami_flags	(Optional) AMI flags
ami_flag_string	(Optional) AMI flag
interface_id	(Optional) interface ID
sw_cap	(Optional) Sw Cap
source_te_id	(Optional) TE ID
source_up_down	(Optional) is the source up or down
source_floodable	(Optional) is the source floodable
source_link_lable_id	(Optional) link table ID
igp_neighbor_count	(Optional) IGP neighbor count
TABLE_igp	(Optional) IGP information
neighbor_id	(Optional) neighbor's name
neighbor_ipaddress	(Optional) neighbor's IP address
neighbor_igp_area_id	(Optional) neighbor's IGP area ID
neighbor_link_name	(Optional) neighbor's link name
neighbor_up_down	(Optional) is neighbor up or down
link_up_thresholds	(Optional) link up thresholds
link_down_thresholds	(Optional) link down thresholds
flooded_areas	(Optional) number of flooded areas
TABLE_dlist	(Optional) table
area_tag	(Optional) area tag
area_id	(Optional) area ID
area_flooding_status	(Optional) area flooding status
area_not_flooded_reason	(Optional) area not-flooded reason
TABLE_up_down	(Optional) up/down information
link_dir_name	(Optional) link dir name

link_dir_bw_kind	(Optional) link dir bandwidth kind
link_dir_bw_units	(Optional) link dir bandwidth units
TABLE_pool	(Optional) information about each pool
link_bw_keep_prio	(Optional) keep priority
link_bw_held	(Optional) bandwidth held
link_bw_total_held	(Optional) total bandwidth held
link_bw_locked	(Optional) bandwidth locked
link_bw_total_locked	(Optional) total bandwidth locked

Command Mode

- /exec

show mpls traffic-eng link-management advertisements

show mpls traffic-eng link-management advertisements [__readonly__ <link_flooding_status> <configured_areas> { TABLE_areas <area_tag> <area_id> [<flooding_protocol> <igp_system_id> <mpls_te_router_ipaddress> <number_of_flooded_links> [{ TABLE_links <link_num> <link_name> <link_subnet_type> [<link_ipaddress>] [<link_local_interface_id>] [<link_designated_router>] [<link_neighbor_id>] [<link_neighbor_ipaddress>] [<link_remote_interface_id>] [<link_protection_capabilities> <link_protection_working_prio>] [<intfc_sw_cap> <link_encoding> { TABLE_flsvc <flsvc> <max_lsp_bw> } <min_lsp_bw> [<interface_mtu> | <sonet_sdh_indication>]] [<link_te_metric>] [<link_igp_metric>] [{ TABLE_srlgs <link_srlg_number> } | <link_srlg_none>] <link_bandwidth> <link_bandwidth_units> [<link_max_res_bandwidth> <link_bandwidth_units>] <link_global_bc0_bandwidth> <link_bandwidth_units> [<link_subpool_bc1_bandwidth> <link_bandwidth_units>] [<link_dir_down> [{ TABLE_down_classes <link_down_te_class> <link_down_class_bandwidth> <link_down_bandwidth_units> }] [{ TABLE_down_pools <down_exp_prio> <link_down_global_pool_bc0_bandwidth> [<link_down_subpool_bc1_bandwidth>] <link_down_pool_bandwidth_units> } <link_affinity_flags>]] [<link_dir_up> [{ TABLE_up_pools <up_exp_prio> <link_up_global_pool_bc0_bandwidth> [<link_up_subpool_bc1_bandwidth>] <link_up_pool_bandwidth_units> }]] }]] }]

Syntax Description

link-management	Link Management information
advertisements	Link Management advertisements
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
link_flooding_status	(Optional) link flooding status
configured_areas	(Optional) configured areas
area_tag	(Optional) area tag
TABLE_areas	(Optional) area info
area_id	(Optional) area ID
flooding_protocol	(Optional) flooding protocol
igp_system_id	(Optional) IGP system ID
mpls_te_router_ipaddress	(Optional) MPLS-TE router IP address
number_of_flooded_links	(Optional) number of flooded links
TABLE_links	(Optional) link info
link_num	(Optional) link number

link_name	(Optional) link name
link_subnet_type	(Optional) link subnet type
link_ipaddress	(Optional) link IP address
link_local_interface_id	(Optional) link local interface ID
link_designated_router	(Optional) link designated router
link_neighbor_id	(Optional) link neighbor ID
link_neighbor_ipaddress	(Optional) link neighbor IP address
link_remote_interface_id	(Optional) link remote interface ID
link_protection_capabilities	(Optional) link protection capabilities
link_protection_working_prio	(Optional) link protection working priority
intfc_sw_cap	(Optional) intfc switching cap
link_encoding	(Optional) link encoding
flsvc	(Optional) flsvc
TABLE_flsvc	(Optional) flsvc info
max_lsp_bw	(Optional) maximum LSP bandwidth
min_lsp_bw	(Optional) minimum LSP bandwidth
interface_mtu	(Optional) interface MTU
sonet_sdh_indication	(Optional) SONET/SDH indication
link_te_metric	(Optional) link TE metric
link_igp_metric	(Optional) link IGP metric
link_srlg_number	(Optional) link SRLG number
TABLE_srlgs	(Optional) SRLG info
link_srlg_none	(Optional) link SRLG -- none
link_bandwidth	(Optional) link bandwidth
link_bandwidth_units	(Optional) link bandwidth units
link_max_res_bandwidth	(Optional) link max res bandwidth
link_global_bc0_bandwidth	(Optional) link global bc0 bandwidth
link_subpool_bc1_bandwidth	(Optional) link subpool bc1 bandwidth
link_dir_down	(Optional) link direction down

TABLE_down_classes	(Optional) direction down class info
link_down_te_class	(Optional) link down TE class
link_down_class_bandwidth	(Optional) link down class bandwidth
link_down_bandwidth_units	(Optional) link down bandwidth units
link_dir_up	(Optional) link direction up
TABLE_up_pools	(Optional) direction up pool info
up_exp_prio	(Optional) up export priority
link_up_global_pool_bc0_bandwidth	(Optional) link up global pool bandwidth
link_up_subpool_bc1_bandwidth	(Optional) link up subpool bandwidth
link_up_pool_bandwidth_units	(Optional) link up pool bandwidth units
TABLE_down_pools	(Optional) direction down pool info
down_exp_prio	(Optional) down export priority
link_down_global_pool_bc0_bandwidth	(Optional) link down global pool bandwidth
link_down_subpool_bc1_bandwidth	(Optional) link down subpool bandwidth
link_down_pool_bandwidth_units	(Optional) link down pool bandwidth units
link_affinity_flags	(Optional) link affinity flags

Command Mode

- /exec

show mpls traffic-eng link-management bandwidth-allocation

show mpls traffic-eng link-management bandwidth-allocation [summary] [<intfc>] [__readonly__ [<links_count>] [<bw_hold_time>] [<flooding_system_status>] [{ TABLE_flooding <flooding_igp_area_id> <flooding_protocol> <flooding_status> <flooding_periodic_status> [<flooding_periodic_interval>] [<number_of_flooded_links>] <flooding_igp_system_id> <flooding_rtr_ipaddress> <flooding_neighbor_count> }] { TABLE_links <link_name> [[<link_global_bc0_bandwidth>] <link_max_res_bandwidth> <max_global_rsvbl_bw> <link_subpool_bc1_bandwidth> <max_sub_rsvbl_bw>] [[<link_ipaddress>] [<link_is_numbered>] [<local_intfc_id>] [<rlp_capability> <rlp_working_priority>] [{ <srlg_group_none> | { TABLE_srlg <srlg_group_number> } }] { TABLE_ixcd <link_key> <intfc_switching_cap> <encoding> } [<link_label_type> <link_installed> [<link_local_label>]] <phys_bw> <phys_bw_units> [<model_id>] [<link_min_flow> <bw_units>] [<max_link_rsvbl_bw> <rsvbl_bw_units> <rsvd_up> <rsvd_down>] [<link_max_res_bandwidth> <rsvbl_bw_units> <rsvd_up> <rsvd_down>] [<max_global_rsvbl_bw> <rsvbl_bw_units> <rsvd_up> <rsvd_down>] [<link_subpool_bc1_bandwidth> <max_sub_rsvbl_bw> <rsvbl_bw_units> <rsvd_up> <rsvd_down>] [<bw_descriptors> [<descriptor_count> <descriptor_kind>]] [<link_state>] [<admit_method_up>] [<admit_method_down>] [<admin_weight> <admin_state> [<neighbor_interface_info> [<interface_name>] [{ TABLE_nbr_src [<neighbor_source>] }] [{ TABLE_ami_flags <ami_flag_string> } <interface_id> <sw_cap> <source_te_id> <source_up_down> <source_floodable> [<source_link_lable_id>]]] <igp_neighbor_count> [{ TABLE_igp <neighbor_id> <neighbor_ipaddress> [<neighbor_igp_area_id>] [<neighbor_link_name>] <neighbor_up_down> }] [<link_up_thresholds> <link_down_thresholds>]] [<flooded_areas> [{ TABLE_dlist <area_tag> <area_id> <area_flooding_status> [<area_not_flooded_reason>] }]] [{ TABLE_up_down <link_dir_name> <link_dir_bw_kind> <link_dir_bw_units> { TABLE_pool <link_bw_keep_prio> <link_bw_held> <link_bw_total_held> <link_bw_locked> <link_bw_total_locked> } }]] }]

Syntax Description

link-management	Link Management information
bandwidth-allocation	Link Management bandwidth-allocation
summary	(Optional) Summary of bandwidth-allocation
intfc	(Optional)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
links_count	(Optional) number of links
bw_hold_time	(Optional) bandwidth hold time
flooding_system_status	(Optional) flooding system status
TABLE_flooding	(Optional) flooding info
flooding_igp_area_id	(Optional) flooding IGP area ID

flooding_protocol	(Optional) flooding protocol
flooding_status	(Optional) flooding status
flooding_periodic_status	(Optional) flooding periodic status
flooding_periodic_interval	(Optional) flooding periodic interval
number_of_flooded_links	(Optional) number of flooded links
flooding_igp_system_id	(Optional) flooding IGP system ID
flooding_rtr_ipaddress	(Optional) flooding router address
flooding_neighbor_count	(Optional) flooding neighbor count
TABLE_links	(Optional) table of information for each link
link_name	(Optional) link name
link_ipaddress	(Optional) link IP address
link_is_numbered	(Optional) whether or not the link is numbered
local_intfc_id	(Optional) local interface ID
rlp_capability	(Optional) RLP capability
rlp_working_priority	(Optional) RLP working priority
srlg_group_none	(Optional) no SRLG group numbers
TABLE_srlg	(Optional) SRLGs
srlg_group_number	(Optional) SRLG group number
TABLE_ixcd	(Optional) IXCD
link_key	(Optional) link key
intfc_switching_cap	(Optional) interface switching capacity
encoding	(Optional) interface encoding
link_label_type	(Optional) link label type
link_installed	(Optional) is link installed
link_local_label	(Optional) link local label
phys_bw	(Optional) link physical bandwidth
phys_bw_units	(Optional) link physical bandwidth units
model_id	(Optional) model ID (e.g., MAM, RDM)
link_min_flow	(Optional) link min flow

bw_units	(Optional) bandwidth units
max_link_rsvbl_bw	(Optional) link maximum reservable bandwidth
rsvbl_bw_units	(Optional) reservable bandwidth units
rsvd_up	(Optional) reserved up
rsvd_down	(Optional) reserved down
link_max_res_bandwidth	(Optional) link max res bandwidth
max_global_rsvbl_bw	(Optional) maximum global reservable bandwidth
link_subpool_bc1_bandwidth	(Optional) link subpool bc1 res bandwidth
max_sub_rsvbl_bw	(Optional) maximum subpool reservable bandwidth
bw_descriptors	(Optional) bandwidth descriptors
descriptor_count	(Optional) bandwidth descriptor count
descriptor_kind	(Optional) descriptor kind
link_state	(Optional) link state
admit_method_up	(Optional) admit method up
admit_method_down	(Optional) admit method down
admin_weight	(Optional) admin weight
admin_state	(Optional) admin state
neighbor_interface_info	(Optional) neighbor interface info
interface_name	(Optional) interface name
TABLE_nbr_src	(Optional) neighbor information
neighbor_source	(Optional) neighbor source
TABLE_ami_flags	(Optional) AMI flags
ami_flag_string	(Optional) AMI flag
interface_id	(Optional) interface ID
sw_cap	(Optional) Sw Cap
source_te_id	(Optional) TE ID
source_up_down	(Optional) is the source up or down
source_floodable	(Optional) is the source floodable
source_link_lable_id	(Optional) link table ID

igp_neighbor_count	(Optional) IGP neighbor count
TABLE_igp	(Optional) IGP information
neighbor_id	(Optional) neighbor's name
neighbor_ipaddress	(Optional) neighbor's IP address
neighbor_igp_area_id	(Optional) neighbor's IGP area ID
neighbor_link_name	(Optional) neighbor's link name
neighbor_up_down	(Optional) is neighbor up or down
link_up_thresholds	(Optional) link up thresholds
link_down_thresholds	(Optional) link down thresholds
flooded_areas	(Optional) number of flooded areas
TABLE_dlist	(Optional) table
area_tag	(Optional) area tag
area_id	(Optional) area ID
area_flooding_status	(Optional) area flooding status
area_not_flooded_reason	(Optional) area not-flooded reason
TABLE_up_down	(Optional) up/down information
link_dir_name	(Optional) link dir name
link_dir_bw_kind	(Optional) link dir bandwidth kind
link_dir_bw_units	(Optional) link dir bandwidth units
TABLE_pool	(Optional) information about each pool
link_bw_keep_prio	(Optional) keep priority
link_bw_held	(Optional) bandwidth held
link_bw_total_held	(Optional) total bandwidth held
link_bw_locked	(Optional) bandwidth locked
link_bw_total_locked	(Optional) total bandwidth locked
link_global_bc0_bandwidth	(Optional) link global bc0 bandwidth

Command Mode

- /exec

show mpls traffic-eng link-management igp-neighbors ip

show mpls traffic-eng link-management igp-neighbors ip <ipaddr> [__readonly__ <neighbor_ippeer_hdr_ipaddress> [TABLE_nbr <neighbor_ippeer_id> <neighbor_ippeer_igp_area_id> <neighbor_ippeer_link_name>]]

Syntax Description

link-management	Link Management information
igp-neighbors	Link Management igp-neighbors
ip	Show neighbors with matching link IP address
ipaddr	neighbor's IP address (A.B.C.D)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
neighbor_ippeer_hdr_ipaddress	(Optional) header neighbor ip address
TABLE_nbr	(Optional) list of neighbors
neighbor_ippeer_id	(Optional) neighbor ID
neighbor_ippeer_igp_area_id	(Optional) neighbor's IGP area ID
neighbor_ippeer_link_name	(Optional) neighbor link's name

Command Mode

- /exec

show mpls traffic-eng link-management igp-neighbors igp-id isis

show mpls traffic-eng link-management igp-neighbors igp-id { isis <isis-id> | ospf <ospf-ipaddr> } [__readonly__ <hdr_neighbor_id> [TABLE_nbr [<igppeer_neighbor_id>] <igppeer_neighbor_ipaddress> [<igppeer_neighbor_igp_area_id>] [<igppeer_neighbor_link_name>]]]

Syntax Description

link-management	Link Management information
igp-neighbors	Link Management igp-neighbors
igp-id	Link Management igp-neighbors by IGP ID
isis	Show neighbors with matching ISIS node ID
isis-id	neighbor's ISIS ID in XX.XXXX. ... .XXX.XX form
ospf	Show neighbors with matching OSPF node ID
ospf-ipaddr	neighbor's OSPF ID (A.B.C.D)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
hdr_neighbor_id	(Optional) header neighbor id
TABLE_nbr	(Optional) list of neighbors
igppeer_neighbor_id	(Optional) neighbor's name
igppeer_neighbor_igp_area_id	(Optional) neighbor's IGP area ID
igppeer_neighbor_ipaddress	(Optional) neighbor ip address
igppeer_neighbor_link_name	(Optional) neighbor link's name

Command Mode

- /exec

show mpls traffic-eng link-management igp-neighbors

show mpls traffic-eng link-management igp-neighbors [<intfc>] [__readonly__ [TABLE_link_nbr <hdr_neighbor_link_name> [TABLE_nbr [<neighbor_id> [<neighbor_igp_area_id>] <neighbor_ipaddress>] [<neighbor_up_down>] [{ TABLE_nbr_src_list <neighbor_source> }]]]]

Syntax Description

link-management	Link Management information
igp-neighbors	Link Management igp-neighbors
intfc	(Optional)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
TABLE_link_nbr	(Optional) list of neighbors on a link
hdr_neighbor_link_name	(Optional) header neighbor link's name
TABLE_nbr	(Optional) list of neighbors
neighbor_id	(Optional) neighbor's name
neighbor_igp_area_id	(Optional) neighbor's IGP area ID
neighbor_ipaddress	(Optional) neighbor's IP address
neighbor_up_down	(Optional) is neighbor up or down
TABLE_nbr_src_list	(Optional) list of sources for a neighbor
neighbor_source	(Optional) neighbor source

Command Mode

- /exec

show mpls traffic-eng link-management statistics

show mpls traffic-eng link-management statistics [<intfc>] [__readonly__ [<lsp_path_adm_ctr_setup_requests> <lsp_path_adm_ctr_setup_admits> <lsp_path_adm_ctr_setup_rejects> <lsp_path_adm_ctr_setup_errors> <lsp_path_adm_ctr_tear_requests> <lsp_path_adm_ctr_tear_preempts> <lsp_path_adm_ctr_tear_errors> <lsp_resv_adm_ctr_setup_requests> <lsp_resv_adm_ctr_setup_admits> <lsp_resv_adm_ctr_setup_rejects> <lsp_resv_adm_ctr_setup_errors> <lsp_resv_adm_ctr_tear_requests> <lsp_resv_adm_ctr_tear_preempts> <lsp_resv_adm_ctr_tear_errors> [TABLE_links <link_name> [<link_ipaddress>] <up_path_ctr_setup_requests> <up_path_ctr_setup_admits> <up_path_ctr_setup_rejects> <up_path_ctr_setup_errors> <up_path_ctr_tear_requests> <up_path_ctr_tear_preempts> <up_path_ctr_tear_errors> <up_resv_ctr_setup_requests> <up_resv_ctr_setup_admits> <up_resv_ctr_setup_rejects> <up_resv_ctr_setup_errors> <up_resv_ctr_tear_requests> <up_resv_ctr_tear_preempts> <up_resv_ctr_tear_errors> <down_path_ctr_setup_requests> <down_path_ctr_setup_admits> <down_path_ctr_setup_rejects> <down_path_ctr_setup_errors> <down_path_ctr_tear_requests> <down_path_ctr_tear_preempts> <down_path_ctr_tear_errors> <down_resv_ctr_setup_requests> <down_resv_ctr_setup_admits> <down_resv_ctr_setup_rejects> <down_resv_ctr_setup_errors> <down_resv_ctr_tear_requests> <down_resv_ctr_tear_preempts> <down_resv_ctr_tear_errors>] [<igp_mem_stats_rims_name> <igp_mem_stats_rims_allocs> <igp_mem_stats_rims_frees> <igp_mem_stats_rims_locks> <igp_mem_stats_rims_unlocks>]]]

Syntax Description

link-management	Link Management information
statistics	Link Management Traffic Engineering statistics
intfc	(Optional)
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
lsp_path_adm_ctr_setup_requests	(Optional) setup requests
lsp_path_adm_ctr_setup_admits	(Optional) setup admits
lsp_path_adm_ctr_setup_rejects	(Optional) setup rejects
lsp_path_adm_ctr_setup_errors	(Optional) setup errors
lsp_path_adm_ctr_tear_requests	(Optional) tear requests
lsp_path_adm_ctr_tear_preempts	(Optional) tear preempts
lsp_path_adm_ctr_tear_errors	(Optional) tear errors
lsp_resv_adm_ctr_setup_requests	(Optional) setup requests
lsp_resv_adm_ctr_setup_admits	(Optional) setup admits

lsp_resv_adm_ctr_setup_rejects	(Optional) setup rejects
lsp_resv_adm_ctr_setup_errors	(Optional) setup errors
lsp_resv_adm_ctr_tear_requests	(Optional) tear requests
lsp_resv_adm_ctr_tear_preempts	(Optional) tear preempts
lsp_resv_adm_ctr_tear_errors	(Optional) tear errors
TABLE_links	(Optional) table of information for each link
link_name	(Optional) link name
link_ipaddress	(Optional) link IP address
up_path_ctr_setup_requests	(Optional) setup requests
up_path_ctr_setup_admits	(Optional) setup admits
up_path_ctr_setup_rejects	(Optional) setup rejects
up_path_ctr_setup_errors	(Optional) setup errors
up_path_ctr_tear_requests	(Optional) tear requests
up_path_ctr_tear_preempts	(Optional) tear preempts
up_path_ctr_tear_errors	(Optional) tear errors
up_resv_ctr_setup_requests	(Optional) setup requests
up_resv_ctr_setup_admits	(Optional) setup admits
up_resv_ctr_setup_rejects	(Optional) setup rejects
up_resv_ctr_setup_errors	(Optional) setup errors
up_resv_ctr_tear_requests	(Optional) tear requests
up_resv_ctr_tear_preempts	(Optional) tear preempts
up_resv_ctr_tear_errors	(Optional) tear errors
down_path_ctr_setup_requests	(Optional) setup requests
down_path_ctr_setup_admits	(Optional) setup admits
down_path_ctr_setup_rejects	(Optional) setup rejects
down_path_ctr_setup_errors	(Optional) setup errors
down_path_ctr_tear_requests	(Optional) tear requests
down_path_ctr_tear_preempts	(Optional) tear preempts
down_path_ctr_tear_errors	(Optional) tear errors

down_resv_ctr_setup_requests	(Optional) setup requests
down_resv_ctr_setup_admits	(Optional) setup admits
down_resv_ctr_setup_rejects	(Optional) setup rejects
down_resv_ctr_setup_errors	(Optional) setup errors
down_resv_ctr_tear_requests	(Optional) tear requests
down_resv_ctr_tear_preempts	(Optional) tear preempts
down_resv_ctr_tear_errors	(Optional) tear errors
igp_mem_stats_rims_name	(Optional) IGP mem stats RIMS name
igp_mem_stats_rims_allocs	(Optional) IGP mem stats RIMS allocs
igp_mem_stats_rims_frees	(Optional) IGP mem stats RIMS frees
igp_mem_stats_rims_locks	(Optional) IGP mem stats RIMS locks
igp_mem_stats_rims_unlocks	(Optional) IGP mem stats RIMS unlocks

Command Mode

- /exec

show mpls traffic-eng lsp attributes

show mpls traffic-eng lsp attributes [name <attr-list>] [__readonly__ [<lsp_id_count> <lsp_list_count>] { TABLE_lspattr [<lsp_name> <lsp_id_name>] [<lsp_sd_command>] [<lsp_aff_command>] [<lsp_abw_command>] [<lsp_bw_command>] [<lsp_frr_command>] [<lsp_ld_command>] [<lsp_prio_command>] [<lsp_rec_rte_command>] }]

Syntax Description

lsp	Show LSP information
attributes	Show LSP attribute lists
name	(Optional) Show a specific named attribute list
attr-list	(Optional) Enter list name
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
lsp_id_count	(Optional) lsp id count
lsp_list_count	(Optional) lsp list count
TABLE_lspattr	(Optional) lspattr info
lsp_name	(Optional) lsp name
lsp_id_name	(Optional) lsp id name
lsp_sd_command	(Optional) lsp sd command
lsp_aff_command	(Optional) lsp aff command
lsp_abw_command	(Optional) lsp abw command
lsp_bw_command	(Optional) lsp bw command
lsp_frr_command	(Optional) lsp frr command
lsp_ld_command	(Optional) lsp ld command
lsp_prio_command	(Optional) lsp prio command
lsp_rec_rte_command	(Optional) lsp rec rte command

Command Mode

- /exec

show mpls traffic-eng topology

show mpls traffic-eng topology [{ { <ipaddr> [ibrief] } | area <area-id> | level-1 | level-2 | brief | igp-id { isis <isis-id> | ospf <ospf-ipaddr> [{ network | router | brief }] } }] [__readonly__ [TABLE_areas <hdr_pcalc_system_id> <hdr_pcalc_area_id>] [<hdr_pcalc_maxage>] [<hdr_pcalc_generation>] [<hdr_pcalc_dste_mode>] [TABLE_nodes <pcalc_node_system_id> [[<pcalc_node_router_id>] <pcalc_node_type> <pcalc_node_valid_for_spf> <pcalc_node_area_id> [<pcalc_node_node_id>] [TABLE_mg_list <pcalc_mg_id> [<pcalc_dest_addr>]] [TABLE_links <pcalc_link_index> <pcalc_subnet_type> <pcalc_dr> <pcalc_system_id> <pcalc_node_id> <pcalc_generation> [<pcalc_frag_id>] [<pcalc_ip_addr>] [<pcalc_if_id>] [<pcalc_nbr_ip_addr>] [<pcalc_nbr_if_id>] [<pcalc_te_metric>] [<pcalc_igp_metric>] [<pcalc_affinity>] [TABLE_srlgs <pcalc_srlg_number>] [<pcalc_switch_cap> <pcalc_encode>] [<pcalc_bw>] [<pcalc_dste_mode>] [TABLE_pcalc_migr <pcalc_migration_mode> <pcalc_migration_bw>] [<pcalc_lsp_bw>] [TABLE_prios <pcalc_pri> <pcalc_lsp_bw_alloc> <pcalc_lsp_bw_avail>] [TABLE_inprogress <pcalc_in_progress_pri> <pcalc_in_progress_bw> <pcalc_in_progress_sub_bw>]]]]]

Syntax Description

topology	Show topology commands
ipaddr	(Optional) Show topology based on router-id or interface ip address (A.B.C.D)
area	(Optional) restrict output to an OSPF area
area-id	(Optional) OSPF area ID as a decimal value
level-1	(Optional) restrict output to an IS-IS level-1
level-2	(Optional) restrict output to an IS-IS level-2
ibrief	(Optional) Use brief format
brief	(Optional) Use brief format
igp-id	(Optional) Show topology based on igp-id
isis	(Optional) Show topology based on isis igp-id
isis-id	(Optional) ISIS ID in XX.XXXX. ... .XXX.XX form
ospf	(Optional) Show traffic-eng topology based on ospf igp-id
ospf-ipaddr	(Optional) igp ipaddr Id (A.B.C.D)
network	(Optional) node type is network
router	(Optional) node type is router
brief	(Optional) Use brief format
show	Show running system information
mpls	Display MPLS status and configuration

traffic-eng	Traffic engineering information
__readonly__	(Optional)
TABLE_areas	(Optional) areas info
hdr_pcalc_system_id	(Optional) pcalc system id
hdr_pcalc_area_id	(Optional) pcalc area id
hdr_pcalc_maxage	(Optional) pcalc maxage
hdr_pcalc_generation	(Optional) pcalc generation
hdr_pcalc_dste_mode	(Optional) pcalc dste mode
TABLE_nodes	(Optional) nodes info
pcalc_node_system_id	(Optional) pcalc system id
pcalc_node_router_id	(Optional) pcalc router id
pcalc_node_type	(Optional) pcalc node type
pcalc_node_valid_for_spf	(Optional) pcalc valid for spf
pcalc_node_area_id	(Optional) pcalc area id
pcalc_node_node_id	(Optional) pcalc node id
TABLE_mg_list	(Optional) mg_list info
pcalc_mg_id	(Optional) pcalc mg id
pcalc_dest_addr	(Optional) pcalc dest addr
TABLE_links	(Optional) links info
pcalc_link_index	(Optional) pcalc link index
pcalc_subnet_type	(Optional) pcalc subnet type
pcalc_dr	(Optional) pcalc dr
pcalc_system_id	(Optional) pcalc system id
pcalc_node_id	(Optional) pcalc node id
pcalc_generation	(Optional) pcalc generation
pcalc_frag_id	(Optional) pcalc frag id
pcalc_ip_addr	(Optional) pcalc ip addr
pcalc_if_id	(Optional) pcalc if id
pcalc_nbr_ip_addr	(Optional) pcalc nbr ip addr

pcalc_nbr_if_id	(Optional) pcalc nbr if id
pcalc_te_metric	(Optional) pcalc TE metric
pcalc_igp_metric	(Optional) pcalc IGP metric
pcalc_affinity	(Optional) pcalc affinity
TABLE_srlgs	(Optional) srlgs info
pcalc_srlg_number	(Optional) pcalc srlg number
pcalc_switch_cap	(Optional) pcalc switch cap
pcalc_encode	(Optional) pcalc encode
pcalc_bw	(Optional) pcalc bw
pcalc_dste_mode	(Optional) pcalc dste mode
TABLE_pcalc_migr	(Optional) pcalc migration info
pcalc_migration_mode	(Optional) pcalc migration mode
pcalc_migration_bw	(Optional) pcalc migration bw
pcalc_lsp_bw	(Optional) pcalc lsp bw
TABLE_prios	(Optional) prios info
pcalc_pri	(Optional) pcalc pri
pcalc_lsp_bw_alloc	(Optional) pcalc lsp bw alloc
pcalc_lsp_bw_avail	(Optional) pcalc lsp bw avail
TABLE_inprogress	(Optional) in progress info
pcalc_in_progress_pri	(Optional) pcalc in progress priority
pcalc_in_progress_bw	(Optional) pcalc in progress bw
pcalc_in_progress_sub_bw	(Optional) pcalc in progress sub bw

Command Mode

- /exec

show mpls traffic-eng topology path

show mpls traffic-eng topology path { <tunnel-intf> [destination <ipaddr>] | destination <ipaddr> } [bandwidth <kbps> | { priority <take-priority> [<keep-priority>] } | { affinity <affinity-value> [mask <mask-value>] }] + [__readonly__ <path_dest_ipaddr> <path_bw> <path_setup_pri> <path_hold_pri> <path_affinity_value> <path_affinity_mask> [<path_match> <path_dest_ipaddr>] [<path_min_bw>] [<path_max_bw>] [TABLE_hops <path_n_hop> [<path_hop_link_id>] [<path_hop_affinity_value>] [<path_hop_available_bw>] [<path_hop_dest_ipaddr>]]]

Syntax Description

topology	Show topology commands
path	MPLS traffic-eng path information
tunnel-intf	Tunnel interface
destination	(Optional) Specify LSP destination address
ipaddr	(Optional) destination address (A.B.C.D)
bandwidth	(Optional) Specify LSP bandwidth
kbps	(Optional) bandwidth in kbps
priority	(Optional) Specify LSP priority
take-priority	(Optional) setup (take) priority
keep-priority	(Optional) hold (keep) priority
affinity	(Optional) Specify LSP affinity
affinity-value	(Optional) affinity value
mask	(Optional) Specify LSP affinity mask
mask-value	(Optional) affinity mask value
show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
__readonly__	(Optional)
path_dest_ipaddr	(Optional) path dest ipaddr
path_bw	(Optional) path bw
path_setup_pri	(Optional) path setup pri
path_hold_pri	(Optional) path hold pri

path_affinity_value	(Optional) path affinity value
path_affinity_mask	(Optional) path affinity mask
path_match	(Optional) path match
path_min_bw	(Optional) path min bw
path_max_bw	(Optional) path min bw
TABLE_hops	(Optional) hops info
path_n_hop	(Optional) path n hop
path_hop_link_id	(Optional) path hop link id
path_hop_affinity_value	(Optional) path hop affinity value
path_hop_available_bw	(Optional) path hop available bw
path_hop_dest_ipaddr	(Optional) path hop dest ipaddr

Command Mode

- /exec

show mpls traffic-eng tunnels

show mpls traffic-eng tunnels { summary | { <tun-intf> } [brief | statistics | accounting | backup | protection] | { { [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>] } + [brief | statistics [summary] | accounting | backup | protection] } } [__readonly__ [[[<tun_process_signaller_status>] [<passive_listener_running>] [<rsvp_running>] [<forwarding_configured>] [<head_vifs> <heads_active> <heads_est> <heads_activated> <heads_deactivated> <recov_attempts> <recovered> <midpoints> <tails>] [<reopt_interval> <reopt_remaining>] [<reopt_running>] [<frr_promote_interval> <frr_promote_remaining>] [<frr_promote_running>] [<frr_onehop_est_interval> <frr_onehop_est_remaining>] [<frr_est_scan_running>] [<frr_rm_active_est_interval> <frr_rm_active_est_remaining>] [<frr_active_scan_running>] [<frr_bu_notinuse_interval> <frr_bu_notinuse_remaining>] [<frr_bu_notinuse_scan_running>] [<auto_bw_coll_interval> <auto_bw_coll_remaining>] [<auto_bw_coll_running>] [<reeval_interval> <reeval_remaining>] [<reeval_running>]] [TABLE_tunnels_brief <tun_brief_name> <tun_brief_dest_ip> [<tun_brief_uplink>] [<tun_brief_downlink>] <tun_brief_gen_status> <tun_brief_conn_status>]] [TABLE_tunnels_protect [<prot_tunnel_role>] <prot_name> <prot_head_name> <prot_gen_status> <prot_conn_status> <prot_tsp_src_ipaddr> <prot_tsp_dst_ipaddr> <prot_tsp_tun_instances> [[<backup_none>] [TABLE_frr_backup_db <bu_protected_intfcs>] [<bu_num_lsps> <bu_num_active_lsps>] [<bu_bw_any_unlimited_inuse>] [<bu_bw_any_limit> <bu_bw_any_limited_inuse> <bu_bw_any_limited_bwp_inuse>] [<bu_bw_sub_limit> <bu_bw_sub_limited_inuse> [<bu_bw_sub_limited_bwp_inuse>]] [<bu_bw_global_limit> <bu_bw_global_limited_inuse> [<bu_bw_global_limited_bwp_inuse>]]] [<frr_protection_none>] [<no_rsvp_info>] [<in_frr_is_active> <in_orig_intfc> <in_tun_tag_label> <in_frr_orig_phop> [<in_intfc_with_frr> <in_frr_phop>]] [<unprotected> <out_orig_name> <out_tun_tag_label> <out_lsp_orig_phop> [<nhop_is_tail>] [<no_frr_nnhop_info>] [<out_frr_orig_nnhop> <out_frr_orig_nnhop_rtr>]] [<frr_active_or_ready> <frr_backup_lsp_intfc> <frr_nnhop_or_nhop> <frr_out_backup_intfc> <lsp_out_intfc> <frr_backup_lsp_out_label> <frr_orig_out_intfc> <frr_orig_out_label> <frr_orig_out_nhop> [<frr_backup_nnhop> <frr_backup_nnhop_rtr>] <frr_backup_intfc> <frr_backup_label> <frr_protected_bw> <frr_protect_level> <frr_bw_type>] [[TABLE_prot_protection [<protection_path_status>] [<protection_common_links>] [<protection_common_nodes>] [<protection_p2p_links> <protection_multiaccess_links> <protection_both_interfaces> <protection_one_interface> <protection_zero_interfaces>] [TABLE_primary_protection <protection_primary_path>] [TABLE_protect_protection <protection_protect_path>] [<protection_type> <protection_autobw_req> <protection_bw_kbps> <protection_setup_pri> <protection_hold_pri> <protection_affinity_value> <protection_affinity_mask> <protection_metric_type>] [[[<protection_in_name>] [<protection_in_label>] [<protection_out_name>] [<protection_out_label>] [<protection_backup_name>] [<protection_backup_label>] [<protection_frr_active>]] [<protection_rsvp_lsp_source_addr> <protection_rsvp_lsp_dest_addr> <protection_rsvp_lsp_dest_port> <protection_rsvp_lsp_source_port> <protection_rsvp_lsp_local_addr>] [{ TABLE_ero_in_protection [<in_protection_rsvp_ero_addr> <in_protection_rsvp_ero_loose>] [<in_protection_rsvp_ero_routerid> <in_protection_rsvp_ero_if_id>] }] [{ TABLE_ero_out_protection [<out_protection_rsvp_ero_addr> <out_protection_rsvp_ero_loose>] [<out_protection_rsvp_ero_routerid> <out_protection_rsvp_ero_if_id>] }] [{ TABLE_rro_protection [<protection_rsvp_rro_addr>] [<protection_rsvp_rro_protect_avail>] [<protection_rsvp_rro_protect_in_use>] [<protection_rsvp_rro_bw_protected>] [<protection_rsvp_rro_node_protect_avail>] [<protection_rsvp_rro_is_node_id>] [<protection_rsvp_rro_if_addr> <protection_rsvp_rro_if_id>] [<protection_rsvp_rro_label>] }] [[<protection_rsvp_tspec_rate>] [<protection_rsvp_tspec_burst>] [<protection_rsvp_tspec_peak>]] [{ TABLE_rro_resv_protection [<resv_protection_rsvp_rro_addr>] [

<resv_protection_rsvp_rro_protect_avail>] [<resv_protection_rsvp_rro_protect_in_use>] [
<resv_protection_rsvp_rro_bw_protected>] [<resv_protection_rsvp_rro_node_protect_avail>] [
<resv_protection_rsvp_rro_is_node_id>] [<resv_protection_rsvp_rro_if_addr>
<resv_protection_rsvp_rro_if_id>] [<resv_protection_rsvp_rro_label>] }] [[<protection_rsvp_fspec_rate>
] [<protection_rsvp_fspec_burst>] [<protection_rsvp_fspec_peak>]]]]] [TABLE_tunnels [
<vif_head_name>] [<lsp_name>] [<sprint_tun_name_stats>] [<tunnels_shown>] [<dest_intf>] [[
<lm_tunnel_name_stats>] [<tsp_dest_ipaddr_stats>] [<vif_head_name_stats>] [[<tsp_cnt_num_tunnels>
] <tsp_cnt_idx_no_path> <tsp_cnt_idx_inval_path> <tsp_cnt_idx_no_iep> <tsp_cnt_idx_pathchg>
<tsp_cnt_idx_loose_reopt> <tsp_cnt_idx_statechg> <tsp_cnt_idx_tun_down> <tsp_cnt_idx_oper_down>
<tsp_cnt_idx_sig_ok> <tsp_cnt_idx_sig_timeout> <tsp_cnt_idx_bad_path> <tsp_cnt_idx_sig_abort>
<tsp_cnt_idx_nobw> <tsp_cnt_idx_noroute> <tsp_cnt_idx_admin> <tsp_cnt_idx_bad> <tsp_cnt_idx_rro_loop>
<tsp_cnt_idx_frr_active> <tsp_cnt_idx_other> [TABLE_rrr_db <tsp_rrr_db_type> <tsp_rrr_db_in_use>
<tsp_rrr_db_allocated> <tsp_rrr_db_freed>] [<he_mgr_tbl_id>] [<lm_mgr_tbl_id>]] [<time_passed>
<output_rate> <packet_rate> <normalized>]] [<sprint_tun_name> <tsp_dest_ipaddr>] [<lm_tunnel_name>
] [<gen_status>] [<conn_status>] [<tsp_setup_valid>] [<tsp_setup_status>] [TABLE_members [
<member_name> [TABLE_member_exp [<member_exp_bits>]] [<member_default_exp_bit>]]] [[
<current_reopt_in_progress>] [<current_delayed_clean>] [<current_popt_protect> <current_popt_idx_str>
<current_popt_lockdown> <current_popt_type_str> <current_popt_verbatim> <current_popt_path_id> [
<current_popt_accum_admin_weight>] [<current_popt_out_interface_name> [<current_popt_label_str>
<current_popt_int_prop>] [<current_popt_label_raw_value>]]] [<current_fwd_adj_hold_up_ms_remaining>
] [<current_reroute_pending>] [<current_type> <current_autobw_req> <current_bw_kbps>
<current_setup_pri> <current_hold_pri> <current_affinity_value> <current_affinity_mask>
<current_metric_type>] [[TABLE_prot_current [<current_path_status>] [<current_common_links>] [
<current_common_nodes>] [<current_p2p_links> <current_multiaccess_links> <current_both_interfaces>
<current_one_interface> <current_zero_interfaces>] [TABLE_primary_current <current_primary_path>]
[TABLE_protect_current <current_protect_path>] [<current_type> <current_autobw_req>
<current_bw_kbps> <current_setup_pri> <current_hold_pri> <current_affinity_value> <current_affinity_mask>
<current_metric_type>] [[[<current_in_name>] [<current_in_label>] [<current_out_name>] [
<current_out_label>] [<current_backup_name>] [<current_backup_label>] [<current_frr_active>]] [
<current_rsvp_lsp_source_addr> <current_rsvp_lsp_dest_addr> <current_rsvp_lsp_dest_port>
<current_rsvp_lsp_source_port> <current_rsvp_lsp_local_addr>] [{ TABLE_ero_in_current [
<in_current_rsvp_ero_addr> <in_current_rsvp_ero_loose>] [<in_current_rsvp_ero_routerid>
<in_current_rsvp_ero_if_id>] }] [{ TABLE_ero_out_current [<out_current_rsvp_ero_addr>
<out_current_rsvp_ero_loose>] [<out_current_rsvp_ero_routerid> <out_current_rsvp_ero_if_id>] }] [{
TABLE_rro_current [<current_rsvp_rro_addr>] [<current_rsvp_rro_protect_avail>] [
<current_rsvp_rro_protect_in_use>] [<current_rsvp_rro_bw_protected>] [
<current_rsvp_rro_node_protect_avail>] [<current_rsvp_rro_is_node_id>] [<current_rsvp_rro_if_addr>
<current_rsvp_rro_if_id>] [<current_rsvp_rro_label>] }] [[<current_rsvp_tspec_rate>] [
<current_rsvp_tspec_burst>] [<current_rsvp_tspec_peak>]] [{ TABLE_rro_resv_current [
<resv_current_rsvp_rro_addr>] [<resv_current_rsvp_rro_protect_avail>] [
<resv_current_rsvp_rro_protect_in_use>] [<resv_current_rsvp_rro_bw_protected>] [
<resv_current_rsvp_rro_node_protect_avail>] [<resv_current_rsvp_rro_is_node_id>] [
<resv_current_rsvp_rro_if_addr> <resv_current_rsvp_rro_if_id>] [<resv_current_rsvp_rro_label>] }] [[
<current_rsvp_fspec_rate>] [<current_rsvp_fspec_burst>] [<current_rsvp_fspec_peak>]]]]] [
<prot_current_popt_protect> <prot_current_popt_idx_str> <prot_current_popt_lockdown>
<prot_current_popt_type_str> <prot_current_popt_verbatim> <prot_current_popt_path_id> [
<prot_current_popt_accum_admin_weight>] [<prot_current_popt_out_interface_name> [
<prot_current_popt_label_str> <prot_current_popt_int_prop>] [<prot_current_popt_label_raw_value>]]
]] [TABLE_popts [[<popts_reopt_in_progress>] [<popts_delayed_clean>] [<popts_popt_protect>
<popts_popt_idx_str> <popts_popt_lockdown> <popts_popt_type_str> <popts_popt_verbatim>
<popts_popt_path_id> [<popts_popt_accum_admin_weight>] [<popts_popt_out_interface_name> [

<popts_popt_label_str> <popts_popt_int_prop>] [<popts_popt_label_raw_value>]]] [
<popts_fwd_adj_hold_up_ms_remaining>] [<popts_reroute_pending>] [<popts_type> <popts_autobw_req>
<popts_bw_kbps> <popts_setup_pri> <popts_hold_pri> <popts_affinity_value> <popts_affinity_mask>
<popts_metric_type>] [[TABLE_prot_popts [<popts_path_status>] [<popts_common_links>] [
<popts_common_nodes>] [<popts_p2p_links> <popts_multiaccess_links> <popts_both_interfaces>
<popts_one_interface> <popts_zero_interfaces>] [TABLE_primary_popts <popts_primary_path>] [
TABLE_protect_popts <popts_protect_path>] [<popts_type> <popts_autobw_req> <popts_bw_kbps>
<popts_setup_pri> <popts_hold_pri> <popts_affinity_value> <popts_affinity_mask> <popts_metric_type>
] [[[<popts_in_name>] [<popts_in_label>] [<popts_out_name>] [<popts_out_label>] [
<popts_backup_name>] [<popts_backup_label>] [<popts_frr_active>]] [<popts_rsvp_lsp_source_addr>
<popts_rsvp_lsp_dest_addr> <popts_rsvp_lsp_dest_port> <popts_rsvp_lsp_source_port>
<popts_rsvp_lsp_local_addr>] [{ TABLE_ero_in_popts [<in_popts_rsvp_ero_addr>
<in_popts_rsvp_ero_loose>] [<in_popts_rsvp_ero_routerid> <in_popts_rsvp_ero_if_id>] }] [{
TABLE_ero_out_popts [<out_popts_rsvp_ero_addr> <out_popts_rsvp_ero_loose>] [
<out_popts_rsvp_ero_routerid> <out_popts_rsvp_ero_if_id>] }] [{ TABLE_rro_popts [
<popts_rsvp_rro_addr>] [<popts_rsvp_rro_protect_avail>] [<popts_rsvp_rro_protect_in_use>] [
<popts_rsvp_rro_bw_protected>] [<popts_rsvp_rro_node_protect_avail>] [<popts_rsvp_rro_is_node_id>
] [<popts_rsvp_rro_if_addr> <popts_rsvp_rro_if_id>] [<popts_rsvp_rro_label>] }] [[
<popts_rsvp_tspec_rate>] [<popts_rsvp_tspec_burst>] [<popts_rsvp_tspec_peak>]] [{
TABLE_rro_resv_popts [<resv_popts_rsvp_rro_addr>] [<resv_popts_rsvp_rro_protect_avail>] [
<resv_popts_rsvp_rro_protect_in_use>] [<resv_popts_rsvp_rro_bw_protected>] [
<resv_popts_rsvp_rro_node_protect_avail>] [<resv_popts_rsvp_rro_is_node_id>] [
<resv_popts_rsvp_rro_if_addr> <resv_popts_rsvp_rro_if_id>] [<resv_popts_rsvp_rro_label>] }] [[
<popts_rsvp_fspec_rate>] [<popts_rsvp_fspec_burst>] [<popts_rsvp_fspec_peak>]]]]] [
<prot_popts_popt_protect> <prot_popts_popt_idx_str> <prot_popts_popt_lockdown>
<prot_popts_popt_type_str> <prot_popts_popt_verbatim> <prot_popts_popt_path_id> [
<prot_popts_popt_accum_admin_weight>] [<prot_popts_popt_out_interface_name> [
<prot_popts_popt_label_str> <prot_popts_popt_int_prop>] [<prot_popts_popt_label_raw_value>]]]]] [
<passive_dest_ipaddr> <passive_tunnnel_id> <passive_incomplete_properties> <passive_dest_str>] [
<config_type> <config_autobw_req> <config_bw_kbps> <config_setup_pri> <config_hold_pri>
<config_affinity_value> <config_affinity_mask> <config_metric_type>] [<tsp_flg_annc>] [
<tsp_active_popt_enbl>] [<fa_holdtime>] [<tsp_autobw_freq> <tsp_autobw_time_left>
<tsp_autobw_time_max> <tsp_autobw_collect> <tsp_autobw_high_or_req> <tsp_autobw_samp_missed>
<tsp_autobw_samp_collected>] [<auto_bw_disabled>] [<active_popt_type_str> <active_popt_idx_str>
<active_popt_bw_override_enabled> <active_popt_lockdown_enabled> <active_popt_verbatim_enabled> [
<active_bw> <active_bw_pool> [<active_autobw> <active_autobw_pool>] [<active_cfg_bw>
<active_cfg_bw_pool>]]] [<passive_sig_name> <passive_sig_setup> <passive_sig_reserv>] [[[
<rsvp_current_in_name>] [<rsvp_current_in_label>] [<rsvp_current_out_name>] [<rsvp_current_out_label>
] [<rsvp_current_backup_name>] [<rsvp_current_backup_label>] [<rsvp_current_frr_active>]] [
<rsvp_current_rsvp_lsp_source_addr> <rsvp_current_rsvp_lsp_dest_addr> <rsvp_current_rsvp_lsp_dest_port>
<rsvp_current_rsvp_lsp_source_port> <rsvp_current_rsvp_lsp_local_addr>] [{ TABLE_ero_in_rsvp_current
[<in_rsvp_current_rsvp_ero_addr> <in_rsvp_current_rsvp_ero_loose>] [<in_rsvp_current_rsvp_ero_routerid>
<in_rsvp_current_rsvp_ero_if_id>] }] [{ TABLE_ero_out_rsvp_current [<out_rsvp_current_rsvp_ero_addr>
<out_rsvp_current_rsvp_ero_loose>] [<out_rsvp_current_rsvp_ero_routerid>
<out_rsvp_current_rsvp_ero_if_id>] }] [{ TABLE_rro_rsvp_current [<rsvp_current_rsvp_rro_addr>] [
<rsvp_current_rsvp_rro_protect_avail>] [<rsvp_current_rsvp_rro_protect_in_use>] [
<rsvp_current_rsvp_rro_bw_protected>] [<rsvp_current_rsvp_rro_node_protect_avail>] [
<rsvp_current_rsvp_rro_is_node_id>] [<rsvp_current_rsvp_rro_if_addr> <rsvp_current_rsvp_rro_if_id>]
[<rsvp_current_rsvp_rro_label>] }] [[<rsvp_current_rsvp_tspec_rate>] [<rsvp_current_rsvp_tspec_burst>
] [<rsvp_current_rsvp_tspec_peak>]] [{ TABLE_rro_resv_rsvp_current [<resv_rsvp_current_rsvp_rro_addr>
] [<resv_rsvp_current_rsvp_rro_protect_avail>] [<resv_rsvp_current_rsvp_rro_protect_in_use>] [

<resv_rsvp_current_rsvp_rro_bw_protected>] [<resv_rsvp_current_rsvp_rro_node_protect_avail>] [<resv_rsvp_current_rsvp_rro_is_node_id>] [<resv_rsvp_current_rsvp_rro_if_addr> <resv_rsvp_current_rsvp_rro_if_id>] [<resv_rsvp_current_rsvp_rro_label>] }] [[<rsvp_current_rsvp_fspec_rate>] [<rsvp_current_rsvp_fspec_burst>] [<rsvp_current_rsvp_fspec_peak>]]] [[<spf_path_info_str>] [<spfw_pathw_str>] [<spfw_unknown_str>] [<spfw_accum_admin_weigth>] [<spfw_metric_type>] [<spf_exp_prefix>] [<spf_hop_unknown>] [TABLE_spf_hoplist <spf_hop_ipaddr> [<spf_hop_intf>]]] [[<hist_create_time>] [<hist_path_change_time>] [<hist_tun_instances>] [<hist_uptime>] [<hist_setup_time>] [<hist_selection>] [<hist_perr_loc_current>] [<hist_perr_desc_current>] [<hist_uptime_reopt>] [<hist_setup_time_reopt>] [<hist_perr_loc_reopt>] [<hist_perr_desc_reopt>] [<hist_prev_popt_idx_str>] [<hist_prev_instance>] [<hist_prev_unknown>] [<hist_setup_fail_reason>] [<hist_perr_loc_prev>] [<hist_perr_desc_prev>] [<hist_other_po_idx>] [<hist_perr_loc_other>] [<hist_perr_desc_other>]]] [<heads_shown> <head_vifs> <mids_shown> <midpoints> <tails_shown> <tails>]]

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
traffic-eng	Traffic engineering information
tunnels	MPLS traffic-eng tunnel status
summary	Show summary information
tun-intf	Tunnel interface
brief	(Optional) Brief summary of tunnel status and configuration
statistics	(Optional) Tunnel counters and statistics
accounting	(Optional) Tunnel accounting
backup	(Optional) Fast reroute backup protection provided by tunnels
protection	(Optional) Failure protection provided for tunnels
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)
brief	(Optional) Brief summary of tunnel status and configuration
statistics	(Optional) Tunnel counters and statistics
summary	(Optional) Summarize tunnel counters and statistics
accounting	(Optional) Tunnel accounting
protection	(Optional) Failure protection provided for tunnels
__readonly__	(Optional)
tun_process_signaller_status	(Optional) tunnel process signaller status
passive_listener_running	(Optional) is the passive listener running
forwarding_configured	(Optional) is forwarding configured
rsvp_running	(Optional) is RSVP running
head_vifs	(Optional) head VIFs
heads_active	(Optional) number of active heads
heads_est	(Optional) heads est
heads_activated	(Optional) number of heads activated
heads_deactivated	(Optional) number of heads deactivated
recov_attempts	(Optional) number of recovery attempts
recovered	(Optional) number recovered
midpoints	(Optional) number of midpoints
tails	(Optional) number of tails
reopt_interval	(Optional) reopt interval
reopt_remaining	(Optional) reopt remaining
reopt_running	(Optional) reopt is running
frr_promote_interval	(Optional) FRR promote interval
frr_promote_remaining	(Optional) FRR promote remaining
frr_promote_running	(Optional) FRR promote is running
frr_onehop_est_interval	(Optional) FRR one hop est interval
frr_onehop_est_remaining	(Optional) FRR one hop est remaining
frr_est_scan_running	(Optional) FRR est scan is running

frr_rm_active_est_interval	(Optional) FRR rm active est interval
frr_rm_active_est_remaining	(Optional) FRR rm active est remaining
frr_active_scan_running	(Optional) FRR active scan is running
frr_bu_notinuse_interval	(Optional) FRR BU not in use interval
frr_bu_notinuse_remaining	(Optional) FRR BU not in use remaining
frr_bu_notinuse_scan_running	(Optional) FRR BU not in use scan is running
auto_bw_coll_interval	(Optional) auto BW coll interval
auto_bw_coll_remaining	(Optional) auto BW coll remaining
auto_bw_coll_running	(Optional) auto BW coll is running
reeval_interval	(Optional) re-eval interval
reeval_remaining	(Optional) re-eval remaining
reeval_running	(Optional) re-eval is running
TABLE_tunnels_brief	(Optional) tunnels brief
tun_brief_name	(Optional) name
tun_brief_dest_ip	(Optional) destinatin IP address
tun_brief_uplink	(Optional) uplink name
tun_brief_downlink	(Optional) down name
tun_brief_gen_status	(Optional) gen status
tun_brief_conn_status	(Optional) connection status
gen_status	(Optional) gen status
conn_status	(Optional) conn status
tsp_setup_valid	(Optional) tsp setup valid
tsp_setup_status	(Optional) tsp setup status
TABLE_tunnels	(Optional) tunnel information
vif_head_name	(Optional) vif head name
tunnels_shown	(Optional) tunnels shown
lm_tunnel_name	(Optional) tunnel name
dest_intf	(Optional) dest intfc
lm_tunnel_name_stats	(Optional) tunnel name

lsp_name	(Optional) lsp name
sprint_tun_name	(Optional) sprint tun name
tsp_dest_ipaddr	(Optional) tsp dest ipaddr
vif_head_name_stats	(Optional) vif head name
sprint_tun_name_stats	(Optional) sprint tun name
tsp_dest_ipaddr_stats	(Optional) tsp dest ipaddr
tsp_cnt_num_tunnels	(Optional) tsp cnt num tunnels
tsp_cnt_idx_no_path	(Optional) tsp cnt idx no path
tsp_cnt_idx_inval_path	(Optional) tsp cnt idx inval path
tsp_cnt_idx_no_iep	(Optional) tsp cnt idx no iep
tsp_cnt_idx_pathchg	(Optional) tsp cnt idx pathchg
tsp_cnt_idx_loose_reopt	(Optional) tsp cnt idx loose reopt
tsp_cnt_idx_statechg	(Optional) tsp cnt idx statechg
tsp_cnt_idx_tun_down	(Optional) tsp cnt idx tun down
tsp_cnt_idx_oper_down	(Optional) tsp cnt idx oper down
tsp_cnt_idx_sig_ok	(Optional) tsp cnt idx sig ok
tsp_cnt_idx_sig_timeout	(Optional) tsp cnt idx sig timeout
tsp_cnt_idx_bad_path	(Optional) tsp cnt idx bad path
tsp_cnt_idx_sig_abort	(Optional) tsp cnt idx sig abort
tsp_cnt_idx_nobw	(Optional) tsp cnt idx nobw
tsp_cnt_idx_noroute	(Optional) tsp cnt idx noroute
tsp_cnt_idx_admin	(Optional) tsp cnt idx admin
tsp_cnt_idx_bad	(Optional) tsp cnt idx bad
tsp_cnt_idx_rro_loop	(Optional) tsp cnt idx rro loop
tsp_cnt_idx_frr_active	(Optional) tsp cnt idx frr active
tsp_cnt_idx_other	(Optional) tsp cnt idx other
TABLE_rrr_db	(Optional) rrr_db info
tsp_rrr_db_type	(Optional) tsp rrr db type
tsp_rrr_db_in_use	(Optional) tsp rrr db in use

tsp_rrr_db_allocated	(Optional) tsp rrr db allocated
tsp_rrr_db_freed	(Optional) tsp rrr db freed
he_mgr_tbl_id	(Optional) he mgr tbl id
lm_mgr_tbl_id	(Optional) lm mgr tbl id
time_passed	(Optional) time passed
output_rate	(Optional) output rate
packet_rate	(Optional) packet rate
normalized	(Optional) normalized
TABLE_tunnels_protect	(Optional) tunnels protection
prot_tunnel_role	(Optional) tunnel role
prot_name	(Optional) protect name
prot_head_name	(Optional) head name
prot_gen_status	(Optional) gen status
prot_conn_status	(Optional) conn status
prot_tsp_src_ipaddr	(Optional) tsp src ipaddr
prot_tsp_dst_ipaddr	(Optional) tsp dst ipaddr
prot_tsp_tun_instances	(Optional) tsp tun instances
unprotected	(Optional) unprotected
out_orig_name	(Optional) out orig name
out_tun_tag_label	(Optional) out tun tag label
out_lsp_orig_phop	(Optional) out lsp orig phop
out_frr_orig_nnhop	(Optional) out frr orig nnhop
out_frr_orig_nnhop_rtr	(Optional) out frr orig nnhop rtr
TABLE_frr_backup_db	(Optional) frr_backup_db info
bu_protected_intfcs	(Optional) protected intfcs
bu_num_lsps	(Optional) num lsps
bu_num_active_lsps	(Optional) num active lsps
bu_bw_any_unlimited_inuse	(Optional) bu bw any unlimited inuse
bu_bw_any_limit	(Optional) bu bw any limit

bu_bw_any_limited_inuse	(Optional) bu bw any limited inuse
bu_bw_any_limited_bwp_inuse	(Optional) bu bw any limited bwp inuse
bu_bw_global_limit	(Optional) bu bw global limit
bu_bw_global_limited_inuse	(Optional) bu bw global limited inuse
bu_bw_global_limited_bwp_inuse	(Optional) bu bw global limited bwp inuse
bu_bw_sub_limit	(Optional) bu bw sub limit
bu_bw_sub_limited_inuse	(Optional) bu bw sub limited inuse
bu_bw_sub_limited_bwp_inuse	(Optional) bu bw sub limited bwp inuse
backup_none	(Optional) backup none
frr_protection_none	(Optional) frr protection none
no_rsvp_info	(Optional) no rsvp info
in_frr_is_active	(Optional) in frr is active
in_orig_intfc	(Optional) in orig intfc
in_tun_tag_label	(Optional) in tun tag label
in_frr_orig_phop	(Optional) in frr orig phop
in_intfc_with_frr	(Optional) in intfc with frr
in_frr_phop	(Optional) in frr phop
nhop_is_tail	(Optional) nhop is tail
no_frr_nnhop_info	(Optional) no frr nnhop info
frr_active_or_ready	(Optional) frr active or ready
frr_backup_lsp_intfc	(Optional) frr backup lsp intfc
frr_nnhop_or_nhop	(Optional) frr nnhop or nhop
frr_out_backup_intfc	(Optional) frr out backup intfc
lsp_out_intfc	(Optional) lsp out intfc
frr_backup_lsp_out_label	(Optional) frr backup lsp out label
frr_orig_out_intfc	(Optional) frr orig out intfc
frr_orig_out_label	(Optional) frr orig out label
frr_orig_out_nhop	(Optional) frr orig out nhop
frr_backup_nnhop	(Optional) frr backup nnhop

frr_backup_nnhop_rtr	(Optional) frr backup nnhop rtr
frr_backup_intfc	(Optional) frr backup intfc
frr_backup_label	(Optional) frr backup label
frr_protected_bw	(Optional) frr protected bw
frr_protect_level	(Optional) frr protect level
frr_bw_type	(Optional) frr bw type
TABLE_prot_protection	(Optional) protection path info
protection_path_status	(Optional) protection path status
protection_common_links	(Optional) protection common links
protection_common_nodes	(Optional) protection common nodes
protection_p2p_links	(Optional) protection p2p links
protection_multiaccess_links	(Optional) protection multiaccess links
protection_both_interfaces	(Optional) protection both interfaces
protection_one_interface	(Optional) protection one interface
protection_zero_interfaces	(Optional) protection zero interfaces
TABLE_primary_protection	(Optional) primary path
protection_primary_path	(Optional) protection primary path
TABLE_protect_protection	(Optional) primary path
protection_protect_path	(Optional) protection protect path
protection_type	(Optional) parameter type
protection_autobw_req	(Optional) autobw req
protection_bw_kbps	(Optional) bw kbps
protection_setup_pri	(Optional) setup priority
protection_hold_pri	(Optional) hold priority
protection_affinity_value	(Optional) affinity value
protection_affinity_mask	(Optional) affinity mask
protection_metric_type	(Optional) metric type
protection_in_name	(Optional) input interface name
protection_in_label	(Optional) input label

protection_out_name	(Optional) output interface name
protection_out_label	(Optional) output label
protection_backup_name	(Optional) backup interface name
protection_backup_label	(Optional) backup label
protection_frr_active	(Optional) FRR active/in use
protection_rsvp_lsp_source_addr	(Optional) rsvp lsp source addr
protection_rsvp_lsp_dest_addr	(Optional) rsvp lsp dest addr
protection_rsvp_lsp_dest_port	(Optional) rsvp lsp dest port
protection_rsvp_lsp_source_port	(Optional) rsvp lsp source port
protection_rsvp_lsp_local_addr	(Optional) rsvp lsp local addr
TABLE_ero_in_protection	(Optional) ero info
in_protection_rsvp_ero_addr	(Optional) rsvp ero addr
in_protection_rsvp_ero_loose	(Optional) rsvp ero loose
in_protection_rsvp_ero_routerid	(Optional) rsvp ero routerid
in_protection_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_ero_out_protection	(Optional) ero info
out_protection_rsvp_ero_addr	(Optional) rsvp ero addr
out_protection_rsvp_ero_loose	(Optional) rsvp ero loose
out_protection_rsvp_ero_routerid	(Optional) rsvp ero routerid
out_protection_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_rro_protection	(Optional) rro info
protection_rsvp_rro_protect_avail	(Optional) rsvp rro protection available
protection_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
protection_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
protection_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
protection_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
protection_rsvp_rro_addr	(Optional) rsvp rro addr
protection_rsvp_rro_if_addr	(Optional) rsvp rro if addr
protection_rsvp_rro_if_id	(Optional) rsvp rro if id

protection_rsvp_rro_label	(Optional) rsvp rro label
protection_rsvp_tspec_rate	(Optional) rsvp tspec rate
protection_rsvp_tspec_burst	(Optional) rsvp tspec burst
protection_rsvp_tspec_peak	(Optional) rsvp tspec peak
TABLE_rro_resv_protection	(Optional) rro info
resv_protection_rsvp_rro_protect_avail	(Optional) rsvp rro protection available
resv_protection_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
resv_protection_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
resv_protection_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
resv_protection_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
resv_protection_rsvp_rro_addr	(Optional) rsvp rro addr
resv_protection_rsvp_rro_if_addr	(Optional) rsvp rro if addr
resv_protection_rsvp_rro_if_id	(Optional) rsvp rro if id
resv_protection_rsvp_rro_label	(Optional) rsvp rro label
protection_rsvp_fspec_rate	(Optional) rsvp rspec rate
protection_rsvp_fspec_burst	(Optional) rsvp rspec burst
protection_rsvp_fspec_peak	(Optional) rsvp rspec peak
TABLE_members	(Optional) members info
member_name	(Optional) tunnel name
TABLE_member_exp	(Optional) member exp info
member_exp_bits	(Optional) exp bits
member_default_exp_bit	(Optional) default exp bit
current_reopt_in_progress	(Optional) reopt in progress
current_delayed_clean	(Optional) delayed clean
current_popt_protect	(Optional) popt protect
current_popt_idx_str	(Optional) popt idx str
current_popt_lockdown	(Optional) popt lockdown
current_popt_type_str	(Optional) popt type str
current_popt_verbatim	(Optional) popt verbatim

current_popt_path_id	(Optional) popt path id
current_popt_accum_admin_weight	(Optional) popt accum admin weight
current_popt_out_interface_name	(Optional) out interface name
current_popt_label_str	(Optional) popt label str
current_popt_int_prop	(Optional) popt int prop
current_popt_label_raw_value	(Optional) popt label raw value
current_fwd_adj_hold_up_ms_remaining	(Optional) fwd adj hold up ms remaining
current_reroute_pending	(Optional) reroute pending
current_type	(Optional) parameter type
current_autobw_req	(Optional) autobw req
current_bw_kbps	(Optional) bw kbps
current_setup_pri	(Optional) setup priority
current_hold_pri	(Optional) hold priority
current_affinity_value	(Optional) affinity value
current_affinity_mask	(Optional) affinity mask
current_metric_type	(Optional) metric type
TABLE_prot_current	(Optional) protection path info
current_path_status	(Optional) protection path status
current_common_links	(Optional) protection common links
current_common_nodes	(Optional) protection common nodes
current_p2p_links	(Optional) protection p2p links
current_multiaccess_links	(Optional) protection multiaccess links
current_both_interfaces	(Optional) protection both interfaces
current_one_interface	(Optional) protection one interface
current_zero_interfaces	(Optional) protection zero interfaces
TABLE_primary_current	(Optional) primary path
current_primary_path	(Optional) protection primary path
TABLE_protect_current	(Optional) primary path
current_protect_path	(Optional) protection protect path

current_type	(Optional) parameter type
current_autobw_req	(Optional) autobw req
current_bw_kbps	(Optional) bw kbps
current_setup_pri	(Optional) setup priority
current_hold_pri	(Optional) hold priority
current_affinity_value	(Optional) affinity value
current_affinity_mask	(Optional) affinity mask
current_metric_type	(Optional) metric type
current_in_name	(Optional) input interface name
current_in_label	(Optional) input label
current_out_name	(Optional) output interface name
current_out_label	(Optional) output label
current_backup_name	(Optional) backup interface name
current_backup_label	(Optional) backup label
current_frr_active	(Optional) FRR active/in use
current_rsvp_lsp_source_addr	(Optional) rsvp lsp source addr
current_rsvp_lsp_dest_addr	(Optional) rsvp lsp dest addr
current_rsvp_lsp_dest_port	(Optional) rsvp lsp dest port
current_rsvp_lsp_source_port	(Optional) rsvp lsp source port
current_rsvp_lsp_local_addr	(Optional) rsvp lsp local addr
TABLE_ero_in_current	(Optional) ero info
in_current_rsvp_ero_addr	(Optional) rsvp ero addr
in_current_rsvp_ero_loose	(Optional) rsvp ero loose
in_current_rsvp_ero_routerid	(Optional) rsvp ero routerid
in_current_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_ero_out_current	(Optional) ero info
out_current_rsvp_ero_addr	(Optional) rsvp ero addr
out_current_rsvp_ero_loose	(Optional) rsvp ero loose
out_current_rsvp_ero_routerid	(Optional) rsvp ero routerid

out_current_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_rro_current	(Optional) rro info
current_rsvp_rro_protect_avail	(Optional) rsvp rro protection available
current_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
current_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
current_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
current_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
current_rsvp_rro_addr	(Optional) rsvp rro addr
current_rsvp_rro_if_addr	(Optional) rsvp rro if addr
current_rsvp_rro_if_id	(Optional) rsvp rro if id
current_rsvp_rro_label	(Optional) rsvp rro label
current_rsvp_tspec_rate	(Optional) rsvp tspec rate
current_rsvp_tspec_burst	(Optional) rsvp tspec burst
current_rsvp_tspec_peak	(Optional) rsvp tspec peak
TABLE_rro_resv_current	(Optional) rro info
resv_current_rsvp_rro_protect_avail	(Optional) rsvp rro protection available
resv_current_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
resv_current_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
resv_current_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
resv_current_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
resv_current_rsvp_rro_addr	(Optional) rsvp rro addr
resv_current_rsvp_rro_if_addr	(Optional) rsvp rro if addr
resv_current_rsvp_rro_if_id	(Optional) rsvp rro if id
resv_current_rsvp_rro_label	(Optional) rsvp rro label
current_rsvp_fspec_rate	(Optional) rsvp rspec rate
current_rsvp_fspec_burst	(Optional) rsvp rspec burst
current_rsvp_fspec_peak	(Optional) rsvp rspec peak
prot_current_popt_protect	(Optional) popt protect
prot_current_popt_idx_str	(Optional) popt idx str

prot_current_popt_lockdown	(Optional) popt lockdown
prot_current_popt_type_str	(Optional) popt type str
prot_current_popt_verbatim	(Optional) popt verbatim
prot_current_popt_path_id	(Optional) popt path id
prot_current_popt_accum_admin_weight	(Optional) popt accum admin weight
prot_current_popt_out_interface_name	(Optional) out interface name
prot_current_popt_label_str	(Optional) popt label str
prot_current_popt_int_prop	(Optional) popt int prop
prot_current_popt_label_raw_value	(Optional) popt label raw value
TABLE_popts	(Optional) path options table
popts_reopt_in_progress	(Optional) reopt in progress
popts_delayed_clean	(Optional) delayed clean
popts_popt_protect	(Optional) popt protect
popts_popt_idx_str	(Optional) popt idx str
popts_popt_lockdown	(Optional) popt lockdown
popts_popt_type_str	(Optional) popt type str
popts_popt_verbatim	(Optional) popt verbatim
popts_popt_path_id	(Optional) popt path id
popts_popt_accum_admin_weight	(Optional) popt accum admin weight
popts_popt_out_interface_name	(Optional) out interface name
popts_popt_label_str	(Optional) popt label str
popts_popt_int_prop	(Optional) popt int prop
popts_popt_label_raw_value	(Optional) popt label raw value
popts_fwd_adj_hold_up_ms_remaining	(Optional) fwd adj hold up ms remaining
popts_reroute_pending	(Optional) reroute pending
popts_type	(Optional) parameter type
popts_autobw_req	(Optional) autobw req
popts_bw_kbps	(Optional) bw kbps
popts_setup_pri	(Optional) setup priority

popts_hold_pri	(Optional) hold priority
popts_affinity_value	(Optional) affinity value
popts_affinity_mask	(Optional) affinity mask
popts_metric_type	(Optional) metric type
TABLE_prot_popts	(Optional) protection path info
popts_path_status	(Optional) protection path status
popts_common_links	(Optional) protection common links
popts_common_nodes	(Optional) protection common nodes
popts_p2p_links	(Optional) protection p2p links
popts_multiaccess_links	(Optional) protection multiaccess links
popts_both_interfaces	(Optional) protection both interfaces
popts_one_interface	(Optional) protection one interface
popts_zero_interfaces	(Optional) protection zero interfaces
TABLE_primary_popts	(Optional) primary path
popts_primary_path	(Optional) protection primary path
TABLE_protect_popts	(Optional) primary path
popts_protect_path	(Optional) protection protect path
popts_type	(Optional) parameter type
popts_autobw_req	(Optional) autobw req
popts_bw_kbps	(Optional) bw kbps
popts_setup_pri	(Optional) setup priority
popts_hold_pri	(Optional) hold priority
popts_affinity_value	(Optional) affinity value
popts_affinity_mask	(Optional) affinity mask
popts_metric_type	(Optional) metric type
popts_in_name	(Optional) input interface name
popts_in_label	(Optional) input label
popts_out_name	(Optional) output interface name
popts_out_label	(Optional) output label

popts_backup_name	(Optional) backup interface name
popts_backup_label	(Optional) backup label
popts_frr_active	(Optional) FRR active/in use
popts_rsvp_lsp_source_addr	(Optional) rsvp lsp source addr
popts_rsvp_lsp_dest_addr	(Optional) rsvp lsp dest addr
popts_rsvp_lsp_dest_port	(Optional) rsvp lsp dest port
popts_rsvp_lsp_source_port	(Optional) rsvp lsp source port
popts_rsvp_lsp_local_addr	(Optional) rsvp lsp local addr
TABLE_ero_in_popts	(Optional) ero info
in_popts_rsvp_ero_addr	(Optional) rsvp ero addr
in_popts_rsvp_ero_loose	(Optional) rsvp ero loose
in_popts_rsvp_ero_routerid	(Optional) rsvp ero routerid
in_popts_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_ero_out_popts	(Optional) ero info
out_popts_rsvp_ero_addr	(Optional) rsvp ero addr
out_popts_rsvp_ero_loose	(Optional) rsvp ero loose
out_popts_rsvp_ero_routerid	(Optional) rsvp ero routerid
out_popts_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_rro_popts	(Optional) rro info
popts_rsvp_rro_protect_avail	(Optional) rsvp rro protection available
popts_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
popts_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
popts_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
popts_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
popts_rsvp_rro_addr	(Optional) rsvp rro addr
popts_rsvp_rro_if_addr	(Optional) rsvp rro if addr
popts_rsvp_rro_if_id	(Optional) rsvp rro if id
popts_rsvp_rro_label	(Optional) rsvp rro label
popts_rsvp_tspec_rate	(Optional) rsvp tspec rate

popts_rsvp_tspec_burst	(Optional) rsvp tspec burst
popts_rsvp_tspec_peak	(Optional) rsvp tspec peak
TABLE_rro_resv_popts	(Optional) rro info
resv_popts_rsvp_rro_protect_avail	(Optional) rsvp rro protection available
resv_popts_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
resv_popts_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
resv_popts_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
resv_popts_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
resv_popts_rsvp_rro_addr	(Optional) rsvp rro addr
resv_popts_rsvp_rro_if_addr	(Optional) rsvp rro if addr
resv_popts_rsvp_rro_if_id	(Optional) rsvp rro if id
resv_popts_rsvp_rro_label	(Optional) rsvp rro label
popts_rsvp_fspec_rate	(Optional) rsvp rspec rate
popts_rsvp_fspec_burst	(Optional) rsvp rspec burst
popts_rsvp_fspec_peak	(Optional) rsvp rspec peak
prot_popts_popt_protect	(Optional) popt protect
prot_popts_popt_idx_str	(Optional) popt idx str
prot_popts_popt_lockdown	(Optional) popt lockdown
prot_popts_popt_type_str	(Optional) popt type str
prot_popts_popt_verbatim	(Optional) popt verbatim
prot_popts_popt_path_id	(Optional) popt path id
prot_popts_popt_accum_admin_weight	(Optional) popt accum admin weight
prot_popts_popt_out_interface_name	(Optional) out interface name
prot_popts_popt_label_str	(Optional) popt label str
prot_popts_popt_int_prop	(Optional) popt int prop
prot_popts_popt_label_raw_value	(Optional) popt label raw value
passive_dest_ipaddr	(Optional) passive tunnel destination ip address
passive_tunnnel_id	(Optional) passive tunnel id
passive_incomplete_properties	(Optional) passive tunnel incomplete properties

passive_dest_str	(Optional) passive destination string
config_type	(Optional) parameter type
config_autobw_req	(Optional) autobw req
config_bw_kbps	(Optional) bw kbps
config_setup_pri	(Optional) setup priority
config_hold_pri	(Optional) hold priority
config_affinity_value	(Optional) affinity value
config_affinity_mask	(Optional) affinity mask
config_metric_type	(Optional) metric type
tsp_flg_annc	(Optional) tsp flg annc
tsp_active_popt_enbl	(Optional) tsp active popt enbl
fa_holdtime	(Optional) fa holdtime
tsp_autobw_freq	(Optional) tsp autobw freq
tsp_autobw_time_left	(Optional) tsp autobw time left
tsp_autobw_time_max	(Optional) tsp autobw time max
tsp_autobw_collect	(Optional) tsp autobw collect
tsp_autobw_high_or_req	(Optional) tsp autobw high or req
tsp_autobw_samp_missed	(Optional) tsp autobw samp missed
tsp_autobw_samp_collected	(Optional) tsp autobw samp collected
auto_bw_disabled	(Optional) auto bw disabled
active_popt_type_str	(Optional) active popt type
active_popt_idx_str	(Optional) active popt index
active_popt_bw_override_enabled	(Optional) active popt bw override enabled
active_popt_lockdown_enabled	(Optional) active popt lockdown enabled
active_popt_verbatim_enabled	(Optional) active popt verbatim enabled
active_bw	(Optional) active bandwidth
active_bw_pool	(Optional) active bw pool
active_autobw	(Optional) active autobw bandwidth
active_autobw_pool	(Optional) active autobw pool

active_cfg_bw	(Optional) active configured bandwidth
active_cfg_bw_pool	(Optional) active configured bw pool
passive_sig_name	(Optional) passive signalled name
passive_sig_setup	(Optional) passive signalled setup
passive_sig_reserv	(Optional) passive signalled reserved
rsvp_current_in_name	(Optional) input interface name
rsvp_current_in_label	(Optional) input label
rsvp_current_out_name	(Optional) output interface name
rsvp_current_out_label	(Optional) output label
rsvp_current_backup_name	(Optional) backup interface name
rsvp_current_backup_label	(Optional) backup label
rsvp_current_frr_active	(Optional) FRR active/in use
rsvp_current_rsvp_lsp_source_addr	(Optional) rsvp lsp source addr
rsvp_current_rsvp_lsp_dest_addr	(Optional) rsvp lsp dest addr
rsvp_current_rsvp_lsp_dest_port	(Optional) rsvp lsp dest port
rsvp_current_rsvp_lsp_source_port	(Optional) rsvp lsp source port
rsvp_current_rsvp_lsp_local_addr	(Optional) rsvp lsp local addr
TABLE_ero_in_rsvp_current	(Optional) ero info
in_rsvp_current_rsvp_ero_addr	(Optional) rsvp ero addr
in_rsvp_current_rsvp_ero_loose	(Optional) rsvp ero loose
in_rsvp_current_rsvp_ero_routerid	(Optional) rsvp ero routerid
in_rsvp_current_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_ero_out_rsvp_current	(Optional) ero info
out_rsvp_current_rsvp_ero_addr	(Optional) rsvp ero addr
out_rsvp_current_rsvp_ero_loose	(Optional) rsvp ero loose
out_rsvp_current_rsvp_ero_routerid	(Optional) rsvp ero routerid
out_rsvp_current_rsvp_ero_if_id	(Optional) rsvp ero if id
TABLE_rro_rsvp_current	(Optional) rro info
rsvp_current_rsvp_rro_protect_avail	(Optional) rsvp rro protection available

rsvp_current_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
rsvp_current_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
rsvp_current_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
rsvp_current_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
rsvp_current_rsvp_rro_addr	(Optional) rsvp rro addr
rsvp_current_rsvp_rro_if_addr	(Optional) rsvp rro if addr
rsvp_current_rsvp_rro_if_id	(Optional) rsvp rro if id
rsvp_current_rsvp_rro_label	(Optional) rsvp rro label
rsvp_current_rsvp_tspec_rate	(Optional) rsvp tspec rate
rsvp_current_rsvp_tspec_burst	(Optional) rsvp tspec burst
rsvp_current_rsvp_tspec_peak	(Optional) rsvp tspec peak
TABLE_rro_resv_rsvp_current	(Optional) rro info
resv_rsvp_current_rsvp_rro_protect_avail	(Optional) rsvp rro protection available
resv_rsvp_current_rsvp_rro_protect_in_use	(Optional) rsvp rro protection in use
resv_rsvp_current_rsvp_rro_bw_protected	(Optional) rsvp rro bw protected
resv_rsvp_current_rsvp_rro_node_protect_avail	(Optional) rsvp rro node protection available
resv_rsvp_current_rsvp_rro_is_node_id	(Optional) rsvp rro is node id
resv_rsvp_current_rsvp_rro_addr	(Optional) rsvp rro addr
resv_rsvp_current_rsvp_rro_if_addr	(Optional) rsvp rro if addr
resv_rsvp_current_rsvp_rro_if_id	(Optional) rsvp rro if id
resv_rsvp_current_rsvp_rro_label	(Optional) rsvp rro label
rsvp_current_rsvp_fspec_rate	(Optional) rsvp rspec rate
rsvp_current_rsvp_fspec_burst	(Optional) rsvp rspec burst
rsvp_current_rsvp_fspec_peak	(Optional) rsvp rspec peak
spf_path_info_str	(Optional) spf path info string
spfw_pathw_str	(Optional) spf path weight string
spfw_unknown_str	(Optional) spf weight unknown string
spfw_accum_admin_weigth	(Optional) spf accumulated admin weight
spfw_metric_type	(Optional) spf metric type

spf_exp_prefix	(Optional) spf exp prefix
spf_hop_unknown	(Optional) spf hop unknown
TABLE_spf_hoplist	(Optional) spf hoplist table
spf_hop_ipaddr	(Optional) spf hop IP address
spf_hop_intf	(Optional) spf hop interface
hist_create_time	(Optional) creation time
hist_path_change_time	(Optional) path change time
hist_tun_instances	(Optional) tunnel instances
hist_uptime	(Optional) uptime
hist_setup_time	(Optional) setup time
hist_selection	(Optional) path option selection
hist_perr_loc_current	(Optional) current LSP path error location
hist_perr_desc_current	(Optional) current LSP path error description
hist_uptime_reopt	(Optional) reopt LSP uptime
hist_setup_time_reopt	(Optional) reopt LSP setup time
hist_perr_loc_reopt	(Optional) reopt LSP path error location
hist_perr_desc_reopt	(Optional) reopt LSP path error description
hist_prev_popt_idx_str	(Optional) previous LSP popt index str
hist_prev_instance	(Optional) previous LSP instance
hist_prev_unknown	(Optional) previous LSP unknown
hist_setup_fail_reason	(Optional) setup fail reason
hist_perr_loc_prev	(Optional) previous LSP path error location
hist_perr_desc_prev	(Optional) previous LSP path error description
hist_other_po_idx	(Optional) other LSP popt index
hist_perr_loc_other	(Optional) other LSP path error location
hist_perr_desc_other	(Optional) other LSP path error description
heads_shown	(Optional) number of heads shown
mids_shown	(Optional) number of midpoints shown
tails_shown	(Optional) number of tails shown

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

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

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 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
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> <uptime> <ref_count>]]

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)
uptime	(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

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

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

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

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

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

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

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

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

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

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

show mvr

show mvr [verbose] [__readonly__ <mvr-status> <mvr-default-vlan> <number-of-mvr-vlans> [<mvr-group-list> <cfg-nodes> <interface-cfg-nodes>]]

Syntax Description

show	Show running system information
mvr	show mvr info
verbose	(Optional) Show in detail
__readonly__	(Optional)
mvr-status	(Optional)
mvr-default-vlan	(Optional)
number-of-mvr-vlans	(Optional)
mvr-group-list	(Optional)
cfg-nodes	(Optional)
interface-cfg-nodes	(Optional)

Command Mode

- /exec

show mvr groups

show mvr groups [__readonly__ [TABLE_group_list <ip-address> <ip-max-addr> <rn-count-char> <rn-count> <mvr-vlan-string> <if-name>] [[<interface-name>] [<mvr-vlan>] [TABLE_mvr_vlan <global-mvr-vlan>] <mvr-groups> <mvr-receiver-type> <mvr-source-type>]]

Syntax Description

show	Show running system information
mvr	show mvr info
groups	show mvr groups config
__readonly__	(Optional)
TABLE_group_list	(Optional)
ip-address	(Optional)
ip-max-addr	(Optional)
rn-count-char	(Optional)
rn-count	(Optional)
mvr-vlan-string	(Optional)
if-name	(Optional)
interface-name	(Optional)
mvr-vlan	(Optional)
TABLE_mvr_vlan	(Optional)
global-mvr-vlan	(Optional)
mvr-groups	(Optional)
mvr-receiver-type	(Optional)
mvr-source-type	(Optional)

Command Mode

- /exec

show mvr interface

show mvr interface [<if0>] [__readonly__ [TABLE_if_name <interface-name> <access-vlan> <src-rcvr> <igmp-mvr-port-status> <mvr-vlan-str>]]

Syntax Description

show	Show running system information
mvr	show mvr info
interface	show mvr interfaces
if0	(Optional) Interface name
__readonly__	(Optional)
TABLE_if_name	(Optional)
interface-name	(Optional)
access-vlan	(Optional)
src-rcvr	(Optional)
igmp-mvr-port-status	(Optional)
mvr-vlan-str	(Optional)

Command Mode

- /exec

show mvr members

show mvr members [interface <if0>] [__readonly__ [TABLE_mvr_vlan <mvr-vlan> <group> <status> [TABLE_members_if <if-name>]] [<vlan> <mvr-group>]]

Syntax Description

show	Show running system information
mvr	show mvr info
members	show active mvr groups
interface	(Optional) show active mvr groups config on interface
if0	(Optional) Interface name
__readonly__	(Optional)
TABLE_mvr_vlan	(Optional)
mvr-vlan	(Optional)
group	(Optional)
status	(Optional)
TABLE_members_if	(Optional)
if-name	(Optional)
vlan	(Optional)
mvr-group	(Optional)

Command Mode

- /exec

show mvr members count

show mvr members count [__readonly__ [TABLE_mvr_vlan <mvr-vlan> <mvr-members-count>]]

Syntax Description

show	Show running system information
mvr	show mvr info
members	show active mvr groups
count	Active mvr groups on each mvr-vlan
__readonly__	(Optional)
TABLE_mvr_vlan	(Optional)
mvr-vlan	(Optional)
mvr-members-count	(Optional)

Command Mode

- /exec

show mvr members vlan

show mvr members { vlan <vlan-id> } [__readonly__ [TABLE_mvr_vlan <mvr-vlan> <grp> <stat> [TABLE_interface_vlan <interface-name>]]]

Syntax Description

show	Show running system information
mvr	show mvr info
members	show active mvr groups
vlan	vlan
vlan-id	Enter MVR Vlan
__readonly__	(Optional)
TABLE_mvr_vlan	(Optional)
mvr-vlan	(Optional)
grp	(Optional)
stat	(Optional)
TABLE_interface_vlan	(Optional)
interface-name	(Optional)

Command Mode

- /exec

show mvr receiver-ports

show mvr receiver-ports [<if0>] [__readonly__ [TABLE_mvr_if_name <mvr-if-name> <mvr-vlan-str> <igmp-port-status> <rx_reports> <rx_leaves>]]

Syntax Description

show	Show running system information
mvr	show mvr info
receiver-ports	List MVR receiver ports
if0	(Optional) Interface name
__readonly__	(Optional)
TABLE_mvr_if_name	(Optional)
mvr-if-name	(Optional)
mvr-vlan-str	(Optional)
igmp-port-status	(Optional)
rx_reports	(Optional)
rx_leaves	(Optional)

Command Mode

- /exec

show mvr source-ports

show mvr source-ports [<if0>] [__readonly__ [TABLE_mvr_if_name <mvr-if-name> <interface-name> <igmp-port-status>]]

Syntax Description

show	Show running system information
mvr	show mvr info
source-ports	List MVR source ports
if0	(Optional) Interface name
__readonly__	(Optional)
TABLE_mvr_if_name	(Optional)
mvr-if-name	(Optional)
interface-name	(Optional)
igmp-port-status	(Optional)

Command Mode

- /exec