



show mpls

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show mpls cross-connect

Table 1: show mpls cross-connect Command Output Descriptions

| Field | Description |
|------------------|---|
| Cross connect ix | Displays the table index for the cross-connect. |
| in labelspace | Indicates that all MPLS interfaces will use the platform-wide label space ("0"). |
| in label | Displays the ingress (incoming interface) label for this segment. |
| out-segment ix | Displays the outbound segment index. |
| Owner | Displays the creator of this segment, typically a protocol such as BGP |
| Persistent | Displays whether the tunnel is persistent – Yes or No. |
| Admin Status | Indicates whether the user can administratively disable a peer while still preserving its configuration. Up = Yes, Down = No. |
| Oper Status | Displays the current status of the cross-connect segment – Up or Down. |

show mpls ftn

Table 2: show mpls ftn Command Output Descriptions

| Field | Description |
|---------------|---|
| Prefix/mask | Displays the IP address and mask stored in for this FEC-to-NHLFE table entry. |
| Nhlfe-ix | Displays the index number for the Next-Hop Label Forwarding Entry. |
| opcode | PUSH = Replace the top label with another and then push one or more additional labels onto the label stack SET = Set the next hop label. |
| label/ifindex | Displays the label associated with the interface. |
| nh-addr | Displays the IP address of the next hop. |

show mpls ilm

Table 3: show mpls ilm Command Output Descriptions

| Field | Description |
|---------------------|--|
| Label | Displays the label ID for this entry in the Incoming Label Map table. |
| Opcode | POP = Remove label from packet. CONTEXT-CHANGE = ??? DELIVER = ??? |
| nhlfe-ix/context-id | Displays the Next-Hop Label Forwarding Entry (NHLFE) index or context ID for this entry. |

Table 4: show mpls ilm fec Command Output Descriptions

| Field | Description |
|-------|---|
| Label | Displays the label ID for this entry in the Incoming Label Map table. |
| VRF | Displays the Virtual Routing and Forwarding information for this entry. |
| FEC | Displays the Forward Equivalency Class (FEC) for this entry. |

Table 5: show mpls ilm label Command Output Descriptions

| Field | Description |
|---------------------|---|
| Label | Displays the label ID for this entry in the Incoming Label Map table. |
| Opcode | Displays the Opcode that identifies the specific PDU for this entry. |
| nhlfe-ix/context-id | Displays the NHLFE/ Context ID for this entry. |

Table 6: show mpls ilm verbose Command Output Descriptions

| Field | Description |
|---------------------------------|--|
| In-segment entry with in label: | Displays the label ID for this entry in the Incoming Label Map table. |
| id: | Displays the Opcode that identifies the specific PDU for this entry. |
| row status: | Displays the Next-Hop Label Forwarding Entry/ Context ID for this entry. |
| Owner: | Ownership of the management plane. |
| # of pops: | Number of pops (TTL) |
| Index: | Index number |
| FEC: | Forward Equivalency Class |

show mpls ldp bindings

Table 7: show mpls ldp bindings Command Output Descriptions

| Field | Description |
|-----------------|--|
| Prefix | Displays the IP address and mask for a particular destination. |
| LPD ID | LDP identifier (IP address). |
| Label | Displays the label associated with this entry. |
| Nexthop | Displays the IP address of the next hop. |
| Egress_if_index | Displays the interface index for egress messages. |

show mpls ldp discovery

Table 8: show mpls ldp discovery Command Output Descriptions

| Field | Description |
|-------------------------------|--|
| Peer LDP ID | LDP ID of the peer router. |
| Hold Time (seconds) | Period of time (in seconds) a discovered LDP neighbor is remembered without receipt of an LDP hello message from the neighbor. |
| Proposed Local/Peer (seconds) | Hold times (in seconds) proposed for LDP hello timer by the local router and the peer router. LDP uses the lower of these two values as the hold time. |
| Remaining (seconds) | Time remaining time before the hello timer expires. |

show mpls ldp neighbor

Table 9: show mpls ldp neighbor Command Output Descriptions

| Field | Description |
|-------------------------------|--|
| Peer LDP ID | LDP ID of the peer router. |
| State | Specifies the state of the LDP session. |
| Hold Time (seconds) | Period of time (in seconds) a discovered LDP neighbor is remembered without receipt of an LDP hello message from the neighbor. |
| Proposed Local/Peer (seconds) | Hold times (in seconds) proposed for LDP hello timer by the local router and the peer router. LDP uses the lower of these two values as the hold time. |
| Remaining (seconds) | Time remaining time before the hello timer expires. |

show mpls ldp neighbor detail

Table 10: show mpls ldp neighbor detail Command Output Descriptions

| Field | Description |
|----------------------|--|
| Local LDP Identifier | LDP identifier(IP address) for the local router. |
| Peer LDP ID | LDP ID of the peer router. |

| Field | Description |
|--------------------------------|--|
| Transport Address | Specifies the named IP address as the transport address in the LDP discovery hello messages. |
| State | Specifies the state of the LDP session. |
| Role | Specifies ACTIVE or PASSIVE role for the LSR. |
| Uptime | Specifies the length of time the LDP session has existed. |
| Keepalive Negotiated Hold Time | Indicates the time that an LDP session is to be maintained with an LDP peer without receiving LDP traffic or an LDP keepalive message from the peer. |
| Proposed Local/Peer | Hold times (in seconds) proposed for LDP hello timer by the local router and the peer router. LDP uses the lower of these two values as the hold time. |
| Remaining Keepalive hold time | Time remaining time before the keepalive timer expires. |
| Address advertised | Identifies the neighbor with this IP address. |

show mpls nexthop-label-forwarding-entry

Table 11: show mpls nexthop-label-forwarding-entry Command Output Descriptions

| Field | Description |
|---------------|---|
| Nhlfe-ix | Displays the index number for the Next-Hop Label Forwarding Entry. |
| Opcode | PUSH = Replace the top label with another and then push one or more additional labels onto the label stack SET = Set the next hop label. |
| label/ifindex | Displays the label associated with the interface. |
| nh-addr | Displays the IP address of the next hop. |

