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# MPLS/RSVP Command Reference

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## MPLS Commands

```

config
  — router
    — [no] mpls
      — [no] admin-group-frr
      — auto-bandwidth-multipliers sample-multiplier number1 adjust-multiplier number2
      — no auto-bandwidth-multipliers
      — auto-lsp lsp-template template-name {policy peer-prefix-policy [peer-prefix-policy...(upto 5 max)] | one-hop}
      — no auto-lsp lsp-template template-name
      — bypass-resignal-timer minutes
      — no bypass-resignal-timer
      — [no] cspf-on-loose-hop
      — dynamic-bypass [enable | disable]
      — exponential-backoff-retry
      — [no] frr-object
      — hold-timer seconds
      — no hold-timer
      — ingress-statistics
        — [no] lsp lsp-name sender ip-address
          — accounting-policy policy-id
          — no accounting-policy
          — [no] collect-stats
          — [no] shutdown
        — [no] p2p-template-lsp rsvp-session-name SessionNameString sender sender-address
          — accounting-policy policy-id
          — no accounting-policy
          — [no] collect-stats
  
```

```

    — [no] max-stats
    — [no] shutdown
— [no] p2mp-template-lsp rsvp-session-name SessionNameString sender
  sender-address
    — accounting-policy policy-id
    — no accounting-policy
    — [no] collect-stats
    — [no] max-stats
    — [no] shutdown
— [no] interface ip-int-name
  — [no] admin-group group-name [group-name...(up to 5 max)]
  — no admin-group
  — [no] label-map in-label
    — [no] pop
    — [no] shutdown
    — swap {out-label | implicit-null-label} nexthop ip-addr
    — no swap {out-label | implicit-null-label}
  — [no] mpls-tp-mep
    — if-num if-num
    — no if-num
    — if-num-validation {enable|disable}
  — [no] shutdown
  — [no] srlg-group group-name [group-name...(up to 5 max)]
  — no srlg-group
  — te-metric metric
  — no te-metric
— [no] ldp-over-rsvp [include | exclude]
— least-fill-min-thd percent
— no least-fill-min-thd
— least-fill-reoptim-thd percent
— no least-fill-reoptim-thd
— lsp-init-retry-timeout seconds
— no lsp-init-retry-timeout
— [no] logger-event-bundling
— max-bypass-associations integer
— no max-bypass-associations
— [no] mbb-prefer-current-hops
— p2p-active-path-fast-retry seconds [1..10] seconds
— no p2p-active-path-fast-retry
— p2mp-s2-fast-retry seconds [1..10] seconds
— no p2mp-s2-fast-retry
— preemption-timer seconds
— no preemption-timer
— p2mp-resignal-timer minutes
— no p2mp-resignal-timer
— resignal-timer minutes
— no resignal-timer
— [no] retry-on-igp-overload
— secondary-fast-retry-timer seconds
— no secondary-fast-retry-timer
— [no] shutdown
— [no] srlg-database
  — [no] router-id ip
    — [no] interface ip-addr srlg-group group-name [group-name...(up
      to 5 max)]

```

- [no] **shutdown**
- [no] **srlg-fr** [strict]
- **srlg-groupsrlg-group**[no] **static-lsp** *lsp-name*
  - **push** {*label* | **implicit-null-label**} **nexthop** *ip-address*
  - **no push** {*out-label* | **implicit-null-label**}
  - [no] **shutdown**
  - **toip-address**
- **static-lsp-fast-retry** *seconds*
- **no static-lsp-fast-retry**
- **user-srlg-db** [enable | disable]

## MPLS-TP Commands

```

config
  — router
    — [no] mpls
      — [no] mpls-tp
        — global-id global-id
        — no global-id
        — node-id node-id
        — no node-id
        — [no] oam-template name
          — hold-time-down timer
          — no hold-time-down
          — hold-time-up timer
          — no hold-time-up
          — bfd-template name
          — no bfd-template
        — protection-template name
        — no protection-template
          — [no] revertive
          — wait-to-restore interval
          — no wait-to-restore
          — rapid-psc-timer interval
          — no rapid-psc-timer
          — slow-psc-timer interval
          — no slow-psc-timer
        — [no] shutdown
        — tp-tunnel-id-range start-id end-id
        — no tp-tunnel-id-range
        — transit-path path-name
        — no transit-path
          — [no] forward-path
          — in-label in-label out-label out-link if-name [next-hop next-hop]
          — no in-label
          — [no] mep
            — dsmap if-num
            — no dsmap
          — path-id {lsp-num lsp-num | working-path | protect-path [src-global-id src-global-id] src-node-id src-node-id src-tunnel-num src-tunnel-num [dest-global-id dest-global-id] dest-node-id dest-node-id [dest-tunnel-num dest-tunnel-num]}
          — no path-id
          — [no] reverse-path
          — [no] shutdown
  
```

## LSP Commands

```

config
  — router
    — [no] mpls
      — [no] lsp lsp-name [bypass-only | p2mp-lsp | mpls-tp src-tunnel-num]
        — [no] adaptive
        — [no] adspec
        — [no] auto-bandwidth
          — adjust-down percent [bw mbps]
          — no adjust-down
          — adjust-up percent [bw mbps]
          — no adjust-up
          — max-bandwidth mbps
          — no max-bandwidth
          — min-bandwidth mbps
          — no min-bandwidth
          — [no] monitor-bandwidth
          — multipliers sample-multiplier num1 adjust-multiplier num2
          — no multipliers
          — overflow-limit number threshold percent [bw mbps]
          — no overflow-limit
          — underflow-limit number threshold percent [bw mbps]
          — no underflow-limit
        — bfd
          — bfd-enable
          — no bfd-enable
          — bfd-template name
          — no bfd-template
          — lsp-ping-interval seconds
          — no lsp-ping-interval
        — [no] bgp-shortcut
        — bgp-transport-tunnel include | exclude
        — [no] class-forwarding
          — fc {be|l2|af|l1|h2|ef|h1|nc}
          — no fc [{be|l2|af|l1|h2|ef|h1|nc}]
          — [no] default-lsp
        — class-type ct-number
        — no class-type
        — [no] cspf [use-te-metric]
        — dest-global-id dest-global-id
        — no dest-global-id
        — dest-tunnel-number dest-tunnel-number
        — no dest-tunnel-number
        — [no] egress-statistics
          — accounting-policy policy-id
          — no accounting-policy
          — [no] collect-stats
          — [no] shutdown
        — [no] exclude group-name [group-name...(up to 5 max)]
        — [no] exclude-node ip-address
        — fast-reroute frr-method
        — no fast-reroute
          — [no] propagate-admin-group

```

- **bandwidth** *rate-in-mbps*
- **no bandwidth**
- **hop-limit** *number*
- **no hop-limit**
- **[no] node-protect**
- **from** *ip-address*
- **hop-limit** *number*
- **no hop-limit**
- **igp-shortcut** [**lfa-protect** | **lfa-only**] [**relative-metric** [*offset*]]
- **[no] igp-shortcut**
- **[no] include** *group-name* [*group-name...*(up to 5 max)]
- **ldp-over-rsvp** [**include** | **exclude**]
- **[no] least-fill**
- **[no] ldp-over-rsvp** [**include** | **exclude**]
- **load-balancing-weight** *integer (32-bit)*
- **no load-balancing-weight**
- **main-ct-retry-limit** *number*
- **no main-ct-retry-limit**
- **[no] metric** *metric*
- **p2mp-id** *id*
- **[no] primary** *path-name*
  - **[no] adaptive**
  - **backup-class-type** *ct-number*
  - **no backup-class-type**
  - **bandwidth** *rate-in-mpbs*
  - **no bandwidth**
  - **bfd**
    - **bfd-enable**
    - **no bfd-enable**
    - **bfd-template** *name*
    - **no bfd-template**
    - **lsp-ping-interval** *seconds*
    - **no lsp-ping-interval**
  - **class-type** *ct-number*
  - **no class-type**
  - **[no] exclude** *group-name* [*group-name...*(up to 5 max)]
  - **hop-limit** *number*
  - **no hop-limit**
  - **[no] include** *group-name* [*group-name...*(up to 5 max)]
  - **priority** *setup-priority hold-priority*
  - **no priority**
  - **[no] record**
  - **[no] record-label**
  - **[no] shutdown**
- **[no] primary-p2mp-instance** *instance-name*
  - **[no] adaptive**
  - **bandwidth** *rate-in-mbps*
  - **no bandwidth**
  - **[no] exclude** *group-name* [*group-name...*(up to 5 max)]
  - **[no] hop-limit**
  - **hop-limit** *number*
  - **no hop-limit**
  - **[no] include** *group-name* [*group-name...*(up to 5 max)]
  - **[no] record**
  - **[no] record-label**

- [no] **s2l-path** *path-name* **to** *ip-address*
  - [no] **shutdown**
- [no] **shutdown**
- [no] **propagate-admin-group**
- [no] **protect-tp-path**
  - **bfd-enable** [cc | cc\_cv]
  - **no bfd-enable**
  - [no] **mep**
    - **dsmap** *if-num*
    - **no dsmap**
  - **in-label** *in-label*
  - **no in-label**
  - **lsp-num** *lsp-num*
  - **no lsp-num**
  - [no] **mep**
  - **oam-template** *name*
  - **no oam-template**
  - **out-label** *out-label* **out-link** *if-name* [**next-hop** *ip-address*]
  - **no out-label**
  - **protection-template** *name*
  - **no protection-template**
  - [no] **shutdown**
- **retry-limit** *number*
- **no retry-limit**
- **retry-timer** *seconds*
- **no retry-timer**
- [no] **revert-timer** *timer-value*
- **rsvp-resv-style** [se | ff]
- [no] **secondary** *path-name*
  - [no] **adaptive**
  - **bandwidth** *rate-in-mbps*
  - **no bandwidth**
  - **class-type** *ct-number*
  - **no class-type**
  - [no] **exclude** *group-name* [*group-name*...(up to 5 max)]
  - **hop-limit** *number*
  - **no hop-limit**
  - [no] **include** *group-name* [*group-name*...(up to 5 max)]
  - [no] **path-preference** *preference-number*
  - **priority** *setup-priority* *hold-priority*
  - **no priority**
  - [no] **record**
  - [no] **record-label**
  - [no] **shutdown**
  - [no] **srlg**
  - [no] **standby**
- [no] **shutdown**
- **to** [*ip-address* | **node-id** [*a.b.c.d.* | 1...4,294,967,295]]
- **vprn-auto-bind** [include | exclude]
- [no] **working-tp-path**
  - **bfd-enable** [cc | cc\_cv]
  - **no bfd-enable**
  - **in-label** *in-label*
  - **no in-label**
  - **lsp-num** *lsp-num*

- **no lsp-num**
- **[no] mep**
  - **dsmap** *if-num*
  - **no dsmap**
- **oam-template** *name*
- **no oam-template**
- **out-label** *out-label out-link if-name [next-hop ip-address]*
- **no out-label**
- **[no] shutdown**
- **lsp-template** *template-name [p2mp | one-hop-p2p | mesh-p2p]*
- **no lsp-template** *template-name*
  - **[no] adspec**
  - **[no] auto-bandwidth**
    - **adjust-down** *percent [bw mbps]*
    - **no adjust-down**
    - **adjust-up** *percent [bw mbps]*
    - **no adjust-up**
    - **fc** *fc-name sampling-weight sampling-weight*
    - **no fc**
    - **max-bandwidth** *mbps*
    - **no max-bandwidth**
    - **min-bandwidth** *mbps*
    - **no min-bandwidth**
    - **[no] monitor-bandwidth**
    - **multipliers** *sample-multiplier num1 adjust-multiplier num2*
    - **no multipliers**
    - **overflow-limit** *number threshold percent [bw mbps]*
    - **no overflow-limit**
    - **underflow-limit** *number threshold percent [bw mbps]*
    - **no underflow-limit**
  - **[no] bandwidth** *rate-in-mbps*
- **bfd**
  - **bfd-enable**
  - **no bfd-enable**
  - **bfd-template** *name*
  - **no bfd-template**
  - **lsp-ping-interval** *seconds*
  - **no lsp-ping-interval**
- **[no] class-forwarding**
  - **fc** *{be|l2|af|l1|h2|ef|h1|nc}*
  - **no fc** *[{be|l2|af|l1|h2|ef|h1|nc}]*
  - **[no] default-lsp**
- **[no] cspf** *[use-te-metric]*
- **[no] default-path** *path-name*
- **[no] egress-statistics**
  - **accounting-policy** *policy-id*
  - **no accounting-policy**
  - **[no] collect-stats**
- **[no] exclude-node** *ip-address*
- **fast-reroute** *frr-method*
- **no fast-reroute**
  - **[no] propagate-admin-group**
  - **bandwidth** *rate-in-mbps*
  - **no bandwidth**
  - **hop-limit** *number*



- **no hop-limit**
- **[no] node-protect**
- **from** *ip-address*
- **hop-limit** *number*
- **no hop-limit**
- **igp-shortcut** [**lfa-protect** | **lfa-only**] [**relative-metric** *[offset]*]
- **[no] igp-shortcut**
- **[no] include** *group-name* [*group-name...*(up to 5 max)]
- **ldp-over-rsvp** [**include** | **exclude**]
- **[no] least-fill**
- **load-balancing-weight** *integer (32-bit)*
- **no load-balancing-weight**
- **[no] metric** *metric*
- **[no] propagate-admin-group**
- **[no] record**
- **[no] record-label**
- **retry-limit** *number*
- **no retry-limit**
- **retry-timer** *seconds*
- **no retry-timer**
- **rsvp-resv-style** [**se** | **ff**]
- **vprn-auto-bind** [**include** | **exclude**]

## Isp-bfd Commands

- ```

config
  — router
    — isp-bfd
    — no isp-bfd
      — bfd-sessions max-limit
      — no bfd-sessions

```

## MPLS Path Commands

- ```

config
  — router
    — [no] mpls
      — [no] path path-name
        — hop hop-index ip-address {strict | loose}
        — no hop hop-index
        — [no] shutdown
      — [no] static-lsp lsp-name
        — push label nexthop ip-address
        — no push out-label
        — to ip-addr
        — [no] shutdown

```

## RSVP Commands

- ```

config
  — router
    — [no] rsvp
      — diffserv-te [mam | rdm]
      — no diffserv-te

```

- **class-type-bw** **ct0** *%-link-bandwidth* **ct1** *%-link-bandwidth* **ct2** *%-link-bandwidth* **ct3** *%-link-bandwidth* **ct4** *%-link-bandwidth* **ct5** *%-link-bandwidth* **ct6** *%-link-bandwidth* **ct7** *%-link-bandwidth*
- **no class-type-bw**
- **fc** *fc-name* **class-type** *ct-number*
- **no fc** *fc-name*
- **te-class** *te-class-number* **class-type** *ct-number* **priority** *priority*
- **no te-class** *te-class-number*
- **gr-helper-time** **max-recovery** *recovery-interval* [*1..1800*] *seconds* **max-restart** *restart-interval*
- **no gr-helper-time**
- **[no] graceful-shutdown**
- **[no] implicit-null-label**
- **[no] interface** *ip-int-name*
  - **authentication-key** [*authentication-key* | *hash-key*] [**hash** | **hash2**]
  - **no authentication-key**
  - **auth-keychain** *name*
  - **no auth-keychain**
  - **[no] bfd-enable**
  - **[no] graceful-shutdown**
  - **class-type-bw** **ct0** *%-link-bandwidth* **ct1** *%-link-bandwidth* **ct2** *%-link-bandwidth* **ct3** *%-link-bandwidth* **ct4** *%-link-bandwidth* **ct5** *%-link-bandwidth* **ct6** *%-link-bandwidth* **ct7** *%-link-bandwidth*
  - **no class-type-bw**
  - **gr-helper** [**enable** | **disable**]
  - **[no] graceful-shutdown**
  - **hello-interval** *milli-seconds*
  - **no hello-interval**
  - **implicit-null-label** [**enable** | **disable**]
  - **no implicit-null-label**
  - **[no] refresh-reduction**
    - **[no] reliable-delivery**
  - **[no] shutdown**
  - **subscription** *percentage*
  - **no subscription**
  - **te-up-threshold** *threshold-level* [*threshold-level*,...(up to 16 max)]
  - **no te-up-threshold**
  - **te-down-threshold** *threshold-level* [*threshold-level*,...(up to 16 max)]
  - **no te-down-threshold**
- **keep-multiplier** *number*
- **no keep-multiplier**
- **[no] msg-pacing**
  - **max-burst** *number*
  - **no max-burst**
  - **period** *milli-seconds*
  - **no period**
- **node-id-in-rro** <include|exclude>
- **p2p-merge-point-abort-timer** [*1..65535*] *seconds*
- **no p2p-merge-point-abort-timer**
- **p2mp-merge-point-abort-timer** [*1..65535*] *seconds*
- **no p2mp-merge-point-abort-timer**
- **preemption-timer** *seconds*
- **no preemption-timer**
- **rapid-retransmit-time** *hundred-milliseconds*
- **no rapid-retransmit-time**

- **rapid-retry-limit** *number*
- **no rapid-retry-limit**
- **refresh-reduction-over-bypass** [enable | disable]
- **refresh-time** *seconds*
- **no refresh-time**
- [no] **graceful-shutdown**
- [no] **shutdown**
- [no] **te-threshold-update**
  - [no] **on-cac-failure**
  - **update-timer** *seconds*
  - **no update-timer**
- **te-up-threshold** *threshold-level* [*threshold-level*...(up to 16 max)]
- **no te-up-threshold**
- **te-down-threshold** *threshold-level* [*threshold-level*...(up to 16 max)]
- **no te-down-threshold**

## Show Commands

```

show
  — router
    — mpls
      — bypass-tunnel [to ip-address] [protected-lsp name] [dynamic | manual] p2mp]
        [detail]
      — interface [ip-int-name|ip-address] [label-map label]
      — interface [ip-int-name|ip-address] statistics
      — label start-label [end-label | in-use | owner]
      — label-range
      — lsp [lsp-name] [status {up|down}] [from ip-address| to ip-address] [detail] [auto-
lsp {all|mesh-p2p|one-hop-p2p}]
      — lsp {transit|terminate} [status {up|down}] [from ip-address| to ip-address | lsp-
name name] [detail]
      — lsp count
      — lsp [lsp-name] activepath [auto-lsp {all|mesh-p2p|one-hop-p2p}]
      — lsp [lsp-name] path [path-name] [status {up|down}] [detail] [auto-lsp {all|mesh-
p2p|one-hop-p2p}]
      — lsp [lsp-name] path [path-name] mbb [auto-lsp {all|mesh-p2p|one-hop-p2p}]
      — lsp [lsp-name] auto-bandwidth [auto-lsp {all|mesh-p2p|one-hop-p2p}]
      — lsp [lsp-name] path [path-name] mbb
      — lsp-egress-stats
      — lsp-egress-stats lsp-name
      — lsp-ingress-stats ip-address lsp lsp-name
      — lsp-ingress-stats sender-address:lsp-name
      — lsp-template [lsp-template-name] [detail]
      — mpls-tp
        — oam-template
        — protection-template
        — status
        — transit-path [path-name] [detail]
      — p2mp-info [type {originate|transit|terminate}] [s2l-endpoint ip-address]
      — p2mp-lsp [lsp-name] [detail]
      — p2mp-lsp [lsp-name] p2mp-instance [p2mp-instance-name] [mbb]
      — p2mp-lsp [lsp-name] p2mp-instance [p2mp-instance-name] s2l [s2l-name] [to s2l-
to-address][status {up | down}] [detail]
      — p2mp-lsp [lsp-name] p2mp-instance [p2mp-instance-name] s2l [s2l-name] [to s2l-
to-address]] mbb
      — srlg-database [router-id ip-address] [interface ip-address]
      — srlg-group [group-name]
      — static-lsp [lsp-name]
      — static-lsp {transit | terminate}
      — static-lsp count
      — statistics-summary
      — status
      — tp-lsp [lsp-name] [status {up | down}] [from ip-address | to ip-address] [detail]
      — tp-lsp [lsp-name] path [protecting | working] [detail]
      — tp-lsp [lsp-name] protection

```

```

show
  — router
    — bfd
      — session {ipv4|ipv6} detail [lag lag-id lag-port port-id]
      — session lsp-name Lsp Name
      — session lsp-rsvp {head|tail}
      — session src ip-address/link-local address dest ip-address | link-local address detail
      — session src ip-address/link-local address dest ip-address | link-local address detail
      — session mpls-tp
      — session lsp-name Lsp Name [link-type {cc-only|cc-cv}] detail
      — session p2mp-interface interface-name detail
      — session src ip-address/link-local address detail lsp-rsvp {head|tail} rsvp-session-
      — session name [256 chars max]
      — session [src ip-address/link-local address] [ipv4|ipv6]
      — session src ip-address/link-local address dest ip-address | link-local address
      — session src ip-address/link-local address detail
      — session summary
      — session type type [ipv4|ipv6]
    — rsvp
      — interface [interface [ip-int-name]] statistics [detail]
      — neighbor [ip-address] [detail]
      — session [session-type] [from ip-address to ip-address] [lsp-name name] [status]
      — session {up|down} [detail]
      — statistics
      — status

show
  — test-oam
    — lsp-bfd
    — lsp-bfd local-bfd-discrim bfd-discriminator
    — lsp-bfd lsp-name lsp-name

```

## Tools Commands

```

tools
  — dump
    — router
      — mpls
        — bypass-tunnel [lsp-name] plr
        — ftn
        — ilm
        — lspinfo
        — memory-usage
        — te-lspinfo [endpoint ip-address] [sender ip-address] [lspid lsp-id] [detail]
          [p2p | p2p-tid tunnel-id]
        — te-lspinfo [endpoint ip-address] [sender ip-address] [lspid lsp-id] [detail]
          [p2p | p2p-tid tunnel-id] { [phops] [nhops] [s2l ip-address] } }
      — rsvp
        — psb
        — rsb
  — perform
    — router
      — mpls
        — adjust-autobandwidth [lsp lsp-name] [force [bandwidth mbps]]]
        — cspf to ip-address
        — force-switch-path [lsp lsp-name] [path path-name]
        — [no] force-switch-path [lsp lsp-name]
        — plr to ip-addr [from ip-addr] [bandwidth bandwidth] [include-bitmap
          bitmap] [exclude-bitmap bitmap] [hop-limit limit] [exclude-address
          excl-addr [excl-addr...(up to 8 max)]] [use-te-metric] [strict-srlg] [srlg-
          group grp-id...(up to 8 max)] [exclude-node excl-node-id [excl-node-
          id...(up to 8 max)]] [skip-interface interface-name] [ds-class-type class-
          type] [cspf-reqtype req-type] [least-fill-min-thd thd] [setup-priority val]
          [hold-priority val]
        — resignal {lsp lsp-name path path-name | delay minutes}
        — resignal {p2mp-lsp p2mp-lsp-name p2mp-instance p2mp-instance-name
          | p2mp-delay p2mp-minutes}
        — resignal-bypass {lsp bypass-lsp-name [force] | delay minutes}
        — revert [lsp lsp-name]
        — switch-path [lsp lsp-name] [path path-name]
        — trap-suppress number-of-traps time-interval
        — update-path {lsp lsp-name path current-path-name new-path new-path-
          name}

```

## Router Commands

```

config
  — router
    — [no] igmp
      — [no] tunnel-interface rsvp-p2mp lsp-name [sender ip-address]
    — [no] tunnel-interface rsvp-p2mp lsp-name [sender ip-address]

```

## Clear Commands

```

clear
  — router
    — bfd
      — session src-ip ip-address dst-ip ip-address
      — session src-ip ip-address dst-ip ip-address lsp-rsvp {head|tail} tunnel-id
        [0..4294967295] lsp-id [0..4294967295]
      — session mpls-tp lsp-name path {working|protect}
      — session p2mp-interface interface-name
      — session src-ip ip-address lsp-rsvp {head|tail} rsvp-session-name [256 chars max]
      — statistics src-ip ip-address dst-ip a.b.c.d
      — statistics all
      — statistics src-ip ip-address dst-ip a.b.c.d lsp-rsvp {head|tail} tunnel-id
        [0..4294967295] lsp-id [0..4294967295]
      — statistics mpls-tp lsp-name path {working|protect}
      — statistics p2mp-interface interface-name
      — statistics src-ip ip-address lsp-rsvp {head|tail} rsvp-session-name [256 chars max]
    — mpls
      — interface [ip-int-name] [statistics]
      — lsp lsp-name
      — lsp-autobandwidth [lsp-name]
      — lsp-egress-stats
      — lsp-egress-stats lsp-name
      — lsp-ingress-stats
      — lsp-ingress-stats ip-address lsp lsp-name
      — lsp-ingress-stats sender-address:lsp-name
    — rsvp
      — interface
      — statistics

```

## Debug Commands

```

debug
  — router
    — mpls [lsp lsp-name] [sender source-address] [endpoint endpoint-address] [tunnel-id tunnel-id]
      [lsp-id lsp-id] [interface ip-int-name]
    — no mpls
      — [no] event
        — all [detail]
        — no all
        — frr [detail]
        — no frr
        — iom [detail]
        — no iom
        — lsp-setup [detail]
        — no lsp-setup
        — mbb [detail]
        — no mbb
        — misc [detail]
        — no misc
        — xc [detail]
        — no xc

```

- **rsvp** [*lsp lsp-name*] [*sender source-address*] [*endpoint endpoint-address*] [*tunnel-id tunnel-id*] [*lsp-id lsp-id*] [*interface ip-int-name*]
- **no rsvp**
  - [**no**] **event**
    - **all** [**detail**]
    - **no all**
    - **misc** [**detail**]
    - **no misc**
    - **nbr** [**detail**]
    - **no nbr**
    - **path** [**detail**]
    - **no path**
    - **resv** [**detail**]
    - **no resv**
    - **te-threshold-update**
    - **no te-threshold-update**
  - [**no**] **packet**
    - **all** [**detail**]
    - **no all**
    - **hello** [**detail**]
    - **no hello**
    - **path** [**detail**]
    - **no path**
    - **patherr** [**detail**]
    - **no patherr**
    - **pathtear** [**detail**]
    - **no pathtear**
    - **resv** [**detail**]
    - **no resv**
    - **resvrr** [**detail**]
    - **no resvrr**
    - **resvtear** [**detail**]
    - **no resvtear**