
GMPLS Command Reference

Command Hierarchies

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LMP Commands

```

config
  — router
    — [no] lmp
      — gmpls-loopback-address ip-address
      — no gmpls-loopback-address
      — [no] peer peer-node-id
        — [no] control-channel lmp-cc-id
          — hello [interval hello-interval] dead-interval hello-dead-interval
          — hello interval hello-interval [dead-interval hello-dead-interval]
          — peer-interface-address ip-address
          — setup-role {active | passive}
          — [no] shutdown
        — peer-loopback-address ip-address
        — no peer-loopback-address
        — retransmission-interval milliseconds
        — retry-limit limit
        — no retry-limit
        — [no] te-link te-link-id
        — [no] shutdown
      — [no] te-link te-link-id
        — [no] data-bearer data-bearer-id
          — [no] port port-id
          — remote-id remote-id
          — no remote-id
          — [no] shutdown
        — link-name te-link-name
        — no link-name
        — remote-id remote-id
        — no remote-id
        — [no] shutdown
      — [no] shutdown

```

GMPLS Commands

```

config
  — router
    — [no] gmpls
      — gr-helper-time max-recovery recovery-interval seconds max restart restart-interval seconds
      — no gr-helper-time
      — keep-multiplier number
      — no keep-multiplier
      — [no] lsp lsp-name
        — e2e-protection-type protection-type
        — no e2e-protection-type
        — encoding-type encoding-type
        — no encoding-type
        — generalized-pid generalized-pid
        — no generalized-pid
        — protect-path path-name
        — no protect-path
          — bandwidth signal-type signal-type
          — no bandwidth
          — exclude-srlg group-name [group-name ... (up to 5 max)]
          — no exclude-srlg [group-name [group-name ... (up to 5 max)]]
          — peer-node peer-node-id
          — no peer-node
          — segment-protection-type protection-type
          — no segment-protection-type
          — [no] shutdown
        — retry-limit retry-limit
        — no retry-limit
        — retry-timer seconds
        — no retry-timer
        — revert-timer seconds
        — no revert-timer
        — [no] shutdown
        — switching-type switching-type
        — no switching-type
        — to ip-address
        — working-path path-name
        — no working-path
          — bandwidth signal-type signal-type
          — no bandwidth
          — exclude-srlg group-name [group-name ... (up to 5 max)]
          — no exclude-srlg [group-name [group-name ... (up to 5 max)]]
          — peer-node peer-node-id
          — no peer-node
          — segment-protection-type protection-type
          — no segment-protection-type
          — [no] shutdown
      — lsp-init-retry-timeout seconds
      — no lsp-init-retry-timeout
      — path path-name
      — no path
        — [no] shutdown
        — hop hop-index node-id node-id [te-link te-link-id] {strict | loose}

```

- **no hop** *hop-index*
- **[no] peer** *peer-node-id*
 - **[no] hello-interval** *hello-interval*
 - **[no] lsp-hold-timer** *hold-time*
 - **[no] shutdown**
- **rapid-retransmit-time** *hundred-milliseconds*
- **no rapid-retransmit-time**
- **rapid-retry-limit** *limit*
- **no rapid-retry-limit**
- **refresh-time** *seconds*
- **no refresh-time**
- **[no] shutdown**
 - **[no] te-link** *te-link-id*
 - **[no] shutdown**

GMPLS Tunnel Group Commands

- ```
config
 — [no] gmpls-tun-grp gmpls-tunnel-group-id
 — description description-string
 — no description
 — far-end ip-address
 — no far-end
 — [no] member member-id
 — [no] glsp session-name name
 — [no] shutdown
 — [no] member-threshold threshold
 — mode mode
 — [no] shutdown
 — type [head-end | tail-end]
```

## Show Commands

- ```
show
  — router
    — gmpls
      — lsp [lsp-name] [status {up | down}] [detail]
      — lsp [lsp-name] path [path-name] [type {working | protect}] [detail]
      — lsp [lsp-name] [status {up | down}] to ip-address [detail]
      — peer [peer-node-id] [detail]
      — peer [peer-node-id] {detail}
      — path [path-name]
      — session [session-type] [from ip-address] [to ip-address] [session-name session-name] [status {up | down}] [detail]
      — te-link [te-link-id]
    — lmp
      — peer [peer-node-id] [detail]
        — control-channel lmp-cc-id [detail]
      — te-link [te-link-id] [detail]
      — te-link te-link-id statistics
        — data-bearer [data-bearer-id] [detail]
    — gmpls-tun-grp [gmpls-tunnel-group-id] [using]
      — member [member-id]
```

Command Hierarchies

Clear Commands

```
clear
  — router
    — statistics
```

Debug Commands

```

debug
  — router
    — gmpls [lsp lsp-name] [sender sender-address] [endpoint endpoint-address] [tunnel-id tunnel-id] [lsp-id lsp-id] [peer peer-node-id]
    — no gmpls
      — [no] event
        — [no] lsp-setup
        — [no] path
        — [no] resv
        — [no] peer
        — [no] rr
        — [no] misc
        — [no] all
      — [no] packet
        — 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
        — notify [detail]
        — no notify
        — ack [detail]
        — no ack
        — srefresh [detail]
        — no srefresh
        — bundle [detail]
        — no bundle
        — all [detail]
        — no all

```

Tools Commands

```

tools
  — dump
    — gmpls-tun-grp id
    — router
      — lmp
        — peer peer-node-id
          — control-channel lmp-cc-id
        — te-link te-link-id
      — gmpls
        — lsp [lsp-name] [detail]
        — path [path-name] [detail]
        — peer [peer-node-id] [detail]

```

- **port** [*session-name*] [**sender ip-address**] [**detail**]
- **psb** [**tunnelid tunnel-id**] [**lspid lsp-id**] [**detail**]
- **status**
- **te-link** [*te-link-id*] [**detail**]