Show Commands

gmpls

Syntax **gmpls**

Context show>router>gmpls

Description This command displays RSVP status information for the GMPLS instance of RSVP.

lsp

Syntax **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**]

Context show>router>gmpls

Description This command displays gLSP information.

Parameters *lsp-name* — Specifies the identifier for the GMPLS LSP. The LSP name can be up to 32 characters long and must be unique.

status — Specifies that the command display only LSPs that are either operationally up or down.

Values **up** — Display only LSPs that are operationally up.
down — Display only LSPs that are operationally down.

path-name — Specifies a unique case-sensitive name label for the LSP path.

Values 32 characters maximum alphanumeric string

type — Specifies that the command display only paths that are either working or protect.

Values **working** — Display only working paths.
protect — Display only protect paths.

to *ip-address* — Specifies the system IP address of the far-end UNI-C router for the GMPLS LSP.

detail — Keyword to request more detailed output.

peer

Syntax **peer** [*peer-node-id*] [**detail**]
peer [*peer-node-id*] {**statistics**}

Context show>router>gmpls

Description This command displays GMPLS peer information.

Parameters *peer-node-id* — Specifies the control plane node ID of the neighboring GMPLS UNI-N node. This can be an IP address or a 32-bit unsigned integer.

Values {a.b.c.d | 1 — 4294967295}

detail — Keyword to request more detailed output.

statistics — Keyword to request peer statistics.

path

Syntax **path** [*path-name*]

Context show>router>gmpls

Description This command displays GMPLS path information.

Parameters *path-name* — Specifies a unique case-sensitive name label for the LSP path.

Values 32 characters maximum alphanumeric string

session

Syntax **session** [**session-type**] [**from** *ip-address*] [**to** *ip-address*] [**session-name** *session-name*] [**status** {**up** | **down**}] [**detail**]

Context show>router>gmpls

Description This command displays GMPLS session information.

Parameters **session-type —** Keyword to display information about the session type.

from *ip-address* — Specifies the system IP address of the near-end UNI-C router.

to *ip-address* — Specifies the system IP address of the far-end UNI-C router.

session-name — Specifies the name of the GMPLS session.

status — Specifies that the command display only GMPLS sessions that are either operationally up or down.

Values **up** — Display only sessions that are operationally up.
down — Display only sessions that are operationally down.

detail — Keyword to request more detailed output.

te-link

Syntax **te-link** [*te-link-id*]

Context show>router>gmpls

Description This command displays Traffic Engineering (TE) link information.

Parameters *te-link-id* — Specifies the ID or name of the configured TE Link.

Values 1 — 4294967295 | *te-link-name*
te-link-name: 32 character maximum name of the TE Link

gmpls-tun-grp

Syntax **gmpls-tun-grp** [*gmpls-tunnel-group-id*] [**using**]

Context show

Description This command displays GMPLS tunnel group status and lists the gLSPs bound to each tunnel group.

Parameters **id** *group-id* — Specifies that only GMPLS tunnel groups of the configured ID are displayed.

using — Keyword to display information about which IP interfaces are using the tunnel groups.

member

Syntax **member** [*member-id*]

Context show>gmpls-tun-grp *gmpls-tunnel-group-id*

Description This command displays member information for the specified GMPLS tunnel group.

Parameters *member-id* — Specifies the ID of the GMPLS tunnel group member.

Values 1 — 16

peer

Syntax **peer** [*peer-node-id*] [**detail**]

Context show>router>lmp

Description This command displays LMP peer information.

Parameters *peer-node-id* — Specifies the unique identifier for the LMP peer node.

detail — Keyword to display more detailed output.

Output **Peer Output Fields —** The following table describes peer output fields.

Label	Description
Admin State	The administrative state of the LMP peer node.
Oper State	The operational state of the LMP peer node.
Retrans Intvl	The configured interval between resubmitted LMP messages.

Label	Description (Continued)
Retry Limit	The configured number of times LMP resends a message before restarting the process.

Sample Output

```
A:ALA-1# show router lmp peer 16843009
===============================================================================
LMP Peer 1.1.1.1 (16843009)
===============================================================================
Admin State:   : Out of Service         Oper State      : Down
Retrans Intvl  : 5000 ms                Retry Limit     : 6
===============================================================================
A:ALA-1#
```

control-channel

Syntax **control-channel** *lmp-cc-id* [**detail**]

Context show>router>lmp>peer

Description This command displays LMP control channel information for a specific peer.

Parameters *lmp-cc-id* — Specifies the unsigned integer identifier for the control channel

Values 1 — 42949672

detail — Keyword to display more detailed output.

Output **Control Channel Output Fields —** The following table describes control channel output fields.

Label	Description
Admin State	The administrative state of the control channel.
Oper State	The operational state of the control channel.
Remote Id	The remote ID of the control channel.
Setup Role	The setup role of the control channel.
Hello Interval	The interval at which LMP hello packets are sent on the control channel.
Hello Dead Intv	The interval after which the IPCC is declared down if no hello packets are received from the LMP peer.
Peer If Addr	The LMP peer interface address.
Inbound Errors	The total number of inbound packet errors.
Outbound Errors	The total number of outbound packet errors.
Message Type	The types of message packets sent and received on the control channel.

Label	Description (Continued)
Received	The total number of received packets of a specific type.
Sent	The total number of sent packets of a specific type.
Retransmitted	The total number of retransmitted packets of a specific type.

Sample Output

```
A:ALA-1# show router lmp peer 16843009 control-channel 1
===============================================================================
LMP Control Channel 1 Statistics
===============================================================================
Admin State:   : Out of Service         Oper State      : Going Down
Remote Id      : 10                     Setup Role      : Active
Hello Interval : 3000                   Hello Dead Intv : 10000
Peer If Addr   : 100.100.100.100
Inbound Errors : 100                    Outbound Errors : 50
-------------------------------------------------------------------------------
Message Type              Received               Sent       Retransmitted
-------------------------------------------------------------------------------
Config                        1111                 11                 111
ConfigAck                       15                  6                 N/A
ConfigNack                       1                  2                 N/A
Hello                           40                 20                 N/A
LinkSummary                   6000                500                  10
LinkSummaryAck                  35                 30                 N/A
LinkSummaryNack                400               3000                 N/A
===============================================================================
A:ALA-1#
```

te-link

Syntax **te-link** [*te-link-id*] [**detail**]
te-link *te-link-id* **statistics**

Context show>router>lmp

Description This command displays Traffic Engineering (TE) link information.

Parameters *te-link-id* — Specifies the ID of a TE Link.

Values 1 — 4294967295 | *te-link-name*
te-link-name: 32 character (max) name of the TE Link

detail — Keyword to display more detailed output.

statistics — Keyword to display TE Link statistics.

Output **TE Link Output Fields —** The following table describes TE link output fields.

Label	Description
Admin State	The administrative state of the TE link.

Label	Description (Continued)
Oper State	The operational state of the TE link.
Remote Id	The remote ID of the TE link.
Peer Node Id	The LMP peer node ID.
Received	The total number of received packets of a specific type.
Sent	The total number of sent packets of a specific type.
Retransmitted	The total number of retransmitted packets of a specific type.

Sample Output

```
*A:SRU4>show>router>lmp# te-link 254
===============================================================================
LMP TE Link 254 (Name) Statistics
===============================================================================
Admin State   : In Service              Oper State   : Degraded
Remote Id     : 10                     Peer Node Id : 15
-------------------------------------------------------------------------------
Message Type              Received                Sent       Retransmitted
-------------------------------------------------------------------------------
LinkSummary                    100                 100                 600
LinkSummaryAck                  30                  25                 N/A
LinkSummaryNack                 70                  75                 N/A
===============================================================================
```

data-bearer

Syntax **data-bearer** [*data-bearer-id*] [**detail**]

Context show>router>lmp>te-link

Description This command displays LMP data bearer information.

Parameters *data-bearer-id* — Specifies the ID of a data bearer link.

detail — Keyword to display more detailed output.

Output **Data Bearer Output Fields —** The following table describes data bearer output fields.

Label	Description
Admin State	The administrative state of the data bearer link.
Oper State	The operational state of the data bearer link.
Remote Id	The remote ID of the data bearer link.
Port	The port used by the data bearer link.

Sample Output

```
*A:SRU4>show>router>lmp>te-link# data-bearer 254
===============================================================================
LMP Data Bearer Link 254 Statistics
===============================================================================
Admin State    : In Service              Oper State    : Up Free
Remote Id      : 10                      Port          : 1/1/1
===============================================================================
```

Clear Commands

statistics

Syntax **statistics**

Context clear>router>gmpls>peer

Description This command clears control packet statistics.

Debug Commands

gmpls

Syntax **gmpls** [**lsp** *lsp-name*] [**sender** *sender-address*] [**endpoint** *endpoint-address*] [**tunnel-id** *tunnel-id*] [**lsp-id** *lsp-id*] [**peer** *peer-node-id*]
no gmpls

Context debug>router

Description This command enables and configures debugging for GMPLS.

The **no** form of the command disables debugging for GMPLS.

Parameters *lsp-name* — Debug all GMPLS instances that contain the specified LSP. 80 characters max.

sender-address — Debug all GMPLS instances that contain the specified sender IP address, in dotted decimal notation.

Values a.b.c.d

endpoint-address — Debug all GMPLS instances that contain the specified endpoint IP address, in dotted decimal notation.

Values a.b.c.d

tunnel-id — Debug all GMPLS instances that contain the specified identifier of a tunnel.

Values 0 — 4294967295

lsp-id — Debug all GMPLS instances that contain the specified identifier of an LSP.

Values 1 — 65535

peer-node-id — Debug all GMPLS instances that contain the specified identifier or IP address of a peer node.

Values 1 — 4294967295 | a.b.c.d

event

Syntax [**no**] **event**

Context debug>router>gmpls

Description This command enables and disables debugging for specific GMPLS events.

all

Syntax [**no**] **all**

Context debug>router>gmpls

Description This command enables and disables debugging for GMPLS All events.

lsp-setup

Syntax [**no**] **lsp-setup**

Context debug>router>gmpls

Description This command enables and disables debugging for GMPLS LSP Setup events.

misc

Syntax [**no**] **misc**

Context debug>router>gmpls

Description This command enables and disables debugging for GMPLS Misc events.

path

Syntax [**no**] **path**

Context debug>router>gmpls

Description This command enables and disables debugging for GMPLS Path events.

peer

Syntax [**no**] **peer**

Context debug>router>gmpls

Description This command enables and disables debugging for GMPLS NBR events.

resv

Syntax [**no**] **resv**

Context debug>router>gmpls

Description This command enables and disables debugging for GMPLS Resv events.

rr

Syntax [**no**] **rr**

Context debug>router>gmpls

Description This command enables and disables debugging for GMPLS Refresh Reduction events.

packet

Syntax [**no**] **packet**

Context debug>router>gmpls

Description This command enables and disables debugging for specific GMPLS packets.

hello

Syntax **hello** [**detail**]
no hello

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS Hello packets.

The **no** form of the command disables debugging for GMPLS Hello packets.

Parameters **detail —** Keyword to produce debug output in greater detail.

path

Syntax **path** [**detail**]
no path

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS Path packets.

The **no** form of the command disables debugging for GMPLS Path packets.

Parameters **detail —** Keyword to produce debug output in greater detail.

patherr

Syntax **patherr** [**detail**]
no patherr

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS PathErr packets.

The **no** form of the command disables debugging for GMPLS PathErr packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

pathtear

Syntax **pathtear** [**detail**]
no pathtear

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS PathTear packets.

The **no** form of the command disables debugging for GMPLS PathTear packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

resv

Syntax **resv** [**detail**]
no resv

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS Resv packets.

The **no** form of the command disables debugging for GMPLS Resv packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

resverr

Syntax **resverr** [**detail**]
no resverr

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS ResvErr packets.

The **no** form of the command disables debugging for GMPLS ResvErr packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

resvtear

Syntax **resvtear** [**detail**]
no resvtear

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS ResvTear packets.

The **no** form of the command disables debugging for GMPLS ResvTear packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

notify

Syntax **notify** [**detail**]
no notify

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS Notify packets.

The **no** form of the command disables debugging for GMPLS Notify packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

ack

Syntax **ack** [**detail**]
no ack

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS Ack packets.

The **no** form of the command disables debugging for GMPLS Ack packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

srefresh

Syntax **srefresh** [**detail**]
no srefresh

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS Srefresh packets.

The **no** form of the command disables debugging for GMPLS Srefresh packets.

Parameters **detail** — Keyword to produce debug output in greater detail.

bundle

Syntax **bundle** [**detail**]
no bundle

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS Bundle packets.

The **no** form of the command disables debugging for GMPLS Bundle packets.

Parameters **detail —** Keyword to produce debug output in greater detail.

all

Syntax **all** [**detail**]
no all

Context debug>router>gmpls>packet

Description This command enables debugging for GMPLS All packets.

The **no** form of the command disables debugging for GMPLS All packets.

Parameters **detail —** Keyword to produce debug output in greater detail.

Tools Commands

gmpls-tun-grp

Syntax **gmpls-tun-grp** *gmpls-tunnel-group-id*

Context tools>dump

Description This command dumps information about a GMPLS tunnel group.

Parameters *gmpls-tunnel-group-id* — The identifier of the GMPLS tunnel group.

Values 1 — 1024

Sample Output

```
*A:Dut-A-UNI-C# tools dump gmpls-tun-grp  1

TunnelGrpId 1: (Up/Up), Port gmpls-tun-grp-1 (Up/Up), mode load-sharing
Type: Head, far-end: 52.52.52.52, bw 40000000, memThreshold 0, portId 0x5c000001
NumMems: 5/4/0(0), Up/Dn 1/0, active 0x1e, present 0x1e iom 0x2 Mtu 9212
gmplsUpd: 8 (000 01:11:23.350), Now: 000 08:34:12.970
  memId 1: (Up/Dn), session: 1::1, reg: Y
     DnReasons: wpLspDn
   Work: N/A (Ghost), status: Dn, Cnt(Up/Dn/PortChg): 0/0/0
    lspState Dn, lspUpd: 0 (000 00:00:00.000), rsrcAdded N
  memId 2: (Up/Up), session: 1::empty, reg: Y
   Work: 1/2/1 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
    lspState Up, lspUpd: 1 (000 01:10:14.720), rsrcAdded Y
  memId 3: (Up/Up), session: 2::empty, reg: Y
   Work: 1/2/2 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
    lspState Up, lspUpd: 1 (000 01:10:23.650), rsrcAdded Y
  memId 4: (Up/Up), session: 3::empty, reg: Y
   Work: 1/1/14 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
    lspState Up, lspUpd: 1 (000 01:10:05.880), rsrcAdded Y
  memId 5: (Up/Up), session: 4::empty, reg: Y
   Work: 1/1/13 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
    lspState Up, lspUpd: 1 (000 01:09:50.710), rsrcAdded Y

  Sorted list of 4 member port(s):
  1/1/13 1/1/14 1/2/1 1/2/2

*A:Dut-A-UNI-C# tools dump gmpls-tun-grp  1
clear

*A:Dut-A-UNI-C# tools dump gmpls-tun-grp  1 clear

TunnelGrpId 1: (Up/Up), Port gmpls-tun-grp-1 (Up/Up), mode load-sharing
Type: Head, far-end: 52.52.52.52, bw 40000000, memThreshold 0, portId 0x5c000001
NumMems: 5/4/0(0), Up/Dn 1/0, active 0x1e, present 0x1e iom 0x2 Mtu 9212
gmplsUpd: 8 (000 01:11:23.350), Now: 000 08:34:20.390
  memId 1: (Up/Dn), session: 1::1, reg: Y
     DnReasons: wpLspDn
   Work: N/A (Ghost), status: Dn, Cnt(Up/Dn/PortChg): 0/0/0
    lspState Dn, lspUpd: 0 (000 00:00:00.000), rsrcAdded N
```

```
memId 2: (Up/Up), session: 1::empty, reg: Y
 Work: 1/2/1 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
  lspState Up, lspUpd: 1 (000 01:10:14.720), rsrcAdded Y
memId 3: (Up/Up), session: 2::empty, reg: Y
 Work: 1/2/2 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
  lspState Up, lspUpd: 1 (000 01:10:23.650), rsrcAdded Y
memId 4: (Up/Up), session: 3::empty, reg: Y
 Work: 1/1/14 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
  lspState Up, lspUpd: 1 (000 01:10:05.880), rsrcAdded Y
memId 5: (Up/Up), session: 4::empty, reg: Y
 Work: 1/1/13 (Up), status: Up, Cnt(Up/Dn/PortChg): 1/0/1
  lspState Up, lspUpd: 1 (000 01:09:50.710), rsrcAdded Y

Sorted list of 4 member port(s):
1/1/13 1/1/14 1/2/1 1/2/2
```

peer

Syntax **peer** *peer-node-id*

Context tools>dump>router>lmp

Description This command dumps information about a specific LMP peer.

Parameters *peer-node-id* — An identifier for the LMP peer node. This may be an IPv4-formatted address or a 32-bit unsigned integer.

Values a.b.c.d | 1 — 4294967295

control-channel

Syntax **control-channel** *lmp-cc-id*

Context tools>dump>router>lmp>peer

Description This command dumps information about a control channel of an LMP peer.

Parameters *lmp-cc-id* — An unsigned integer identifier for the control channel.

Values 1 — 42949672

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>lmp# peer 10.27.255.21
10.27.255.213  10.27.255.219
*A:Dut-B-UNI-C>tools>dump>router>lmp# peer 10.27.255.21 control-channel 7001
MINOR: CLI peer 10.27.255.21 is not configured.
*A:Dut-B-UNI-C>tools>dump>router>lmp# peer 10.27.255.21
10.27.255.213  10.27.255.219
*A:Dut-B-UNI-C>tools>dump>router>lmp# peer 10.27.255.213 control-channel
<lmp-cc-id>
7001
```

```
*A:Dut-B-UNI-C>tools>dump>router>lmp# peer 10.27.255.213 control-channel 7001

Local: 7001, Remote: 7004, State Up/Up, Nbr  10.27.255.213
Dst: 10.27.255.213, Nh: 172.21.36.173, EgrIfIndex: 3, Src: 52.52.52.52
   Hello 1000/1000, Dead 3000/3000, Seq (Tx/Rx/Ack) 57995/16109/57995
   LastEvt: rxHello, Tmrs: Hello Hold
   Cntrs: Errs(in/out) 0/0, Rx: cfg/Ack/Nack/Hello: 6/14/0/57887
   Cntrs: Tx: cfg/Ack/Nack/Hello: 14(30)/0/0/57995, reTxCnt: 0
   RxCfg: 7004: 1000/3000, RxNack: 0: 0/0
   TxMsgId: 44, RxMsgId(cfg/ack/nack): 1/44/0
   LkSum Cntrs (sum/ack/nack) Tx: 11654(216)/11620/0, Rx: 11724/11858/0
   Now: 000 16:19:13.900
  Seq  Event       prevState  state    TxPkt        Time
  ===  ==========  ========  ========  =====  ================
  009     rxHello    Active        Up    ---  000 09:40:02.410
  010     holdTmr        Up    CfgSnd    Cfg  000 10:15:14.410
  011     reTxTmr    CfgSnd    CfgSnd    Cfg  000 10:15:14.900
  012       rxAck    CfgSnd    Active  Hello  000 10:15:23.040
  013     rxHello    Active        Up    ---  000 10:15:24.020
  014     holdTmr        Up    CfgSnd    Cfg  000 10:35:15.070
  015       rxAck    CfgSnd    Active  Hello  000 10:35:15.080
  016     rxHello    Active        Up    ---  000 10:35:16.060
  017     holdTmr        Up    CfgSnd    Cfg  000 10:45:20.090
  018       rxAck    CfgSnd    Active  Hello  000 10:45:20.100
  019     rxHello    Active        Up    ---  000 10:45:21.080
  000     holdTmr        Up    CfgSnd    Cfg  000 10:50:21.480
  001       rxAck    CfgSnd    Active  Hello  000 10:50:21.490
  002     rxHello    Active        Up    ---  000 10:50:22.480
  003     holdTmr        Up    CfgSnd    Cfg  000 11:05:23.550
  004       rxAck    CfgSnd    Active  Hello  000 11:05:23.560
  005     rxHello    Active        Up    ---  000 11:05:24.540
  006     holdTmr        Up    CfgSnd    Cfg  000 11:40:33.600
  007       rxAck    CfgSnd    Active  Hello  000 11:40:33.610
  008     rxHello    Active        Up    ---  000 11:40:34.600
```

te-link

Syntax **te-link te-link-id**

Context tools>dump>router>lmp

Description This command dumps information about a TE link.

Parameters *te-link-id* — The identifier of the TE link.

Values 1 — 4294967295 | *te-link-name*

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>lmp# te-link 1010701

Local 1010701 (), State Up/Up, Remote: 1010701, db 1(1), resv 0, msgId 11871
  Cntrs (sum/ack/nack) Tx: 2912(8)/2906/0, Rx: 2906/2914/0, Up/Dn: 14/13
```

```
  LastEvt: ackRxSm (000 16:19:18.070), Now: 000 16:19:33.270
  LastRxLkSum: Id 1010701, dbCnt 1, ErrCode 0x0, Flags: 0x0
   RxDb: Id(L/R) 101070117/101070117, Flags: 0x3
    SubObj: type/len/sw/enc: 1/12/125/2, Kbps(Min/Max): 10000000/10000000
  LastRxLkSumNack: msgId 0, dbCnt 0, ErrCode 0x0, Flags: 0x0
  Db Links:
    1010701-101070117 (1/1/13): State Up/UpAlloc, port Up/Up RemoteId: 101070117,
     Alloc Y, bw 10000000, portBw 10000000/10000000, tunGrp 1, cfg: Y, Lpc: Y
     Alloc (Cnt/Tm): 3/000 10:16:21.770, Free 2/000 10:15:32.050
     Cnt(Up/Dn): 1/0, UpDnTm: 000 00:10:55.310
```

lsp

Syntax **lsp** [*lsp-name*] [**detail**]

Context tools>dump>router>gmpls

Description This command dumps information about LSPs. Configuring the *lsp-name* parameter will only dump information about the specified LSP.

Parameters *lsp-name* — The name of the LSP. 32 characters max.

detail — Keyword to output information in greater detail.

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>gmpls# lsp "D1"
LSP "D1",  LspIndex: 1,  Type: GMPLS-UNI,  AdminState: UP,  OperState: UP,  Flags:
0x0
Total LSP Count: 1

*A:Dut-B-UNI-C>tools>dump>router>gmpls# lsp "D1" detail
===============================================================================
LSP "D1",  LspIndex: 1
  Type: GMPLS-UNI,  AdminState: UP,  OperState: UP, Flags: 0x0
  LastChange: 02/04/2015 23:30:34
  TimeSinceLastOperChange: 0d 15:07:19
  NumWorkingPaths: 1,  NumProtectPaths: 0
  NumWorkingPathsUp: 1,  NumProtectPathsUp: 0

-------------------------------------------------------------------------------
LspPath  PathIndex: 2,  Type: Working
  AdminState: UP,  OperState:Up,  Flags: 0x0
  LastChange: 02/04/2015 23:30:34
  TimeSinceLastOperChange: 0d 15:07:19
  LspId: 296,  SessionName: D1::2
  CurrState: LSP_PATH_UP,  PrevState: LSP_PATH_INIT
  RetryCount: 107,  FailNode: 0.0.0.0,  FailCode: none
  Peer: 0.0.0.0
  PSB: vrId: 1 Session (To: 72.72.72.72 - 1 - 52.52.52.52), Sender (52.52.52.52 -
296)
  Actual Hops:
    Hop 1 : Unnumbered RouterId 52.52.52.52, InterfaceId 1010702
            UpStreamLabel 0, DnStreamLabel 101070217, Flags 0x0
```

```
    Hop 2 : Unnumbered RouterId 10.27.255.213, InterfaceId 1010702
            UpStreamLabel 101070217, DnStreamLabel 0, Flags 0x0
            SRLG List  27
    Hop 3 : Unnumbered RouterId 10.27.255.213, InterfaceId 13000
            UpStreamLabel 0, DnStreamLabel 101070230, Flags 0x0
            SRLG List  4
    Hop 4 : Unnumbered RouterId 10.27.255.219, InterfaceId 13001
            UpStreamLabel 101070230, DnStreamLabel 0, Flags 0x0
    Hop 5 : Unnumbered RouterId 10.27.255.219, InterfaceId 1010702
            UpStreamLabel 0, DnStreamLabel 101070217, Flags 0x0
            SRLG List  27
    Hop 6 : Unnumbered RouterId 72.72.72.72, InterfaceId 1010702
            UpStreamLabel 101070217, DnStreamLabel 0, Flags 0x0
===============================================================================
Total LSP Count: 1
```

path

Syntax **path** [*path-name*] [**detail**]

Context tools>dump>router>gmpls

Description This command dumps information about paths. Configuring the *path-name* parameter will only dump information about the specified path.

Parameters *path-name* — The name of the path. 32 characters max.

detail — Keyword to output information in greater detail.

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>gmpls# path
<path-name>
"empty"  "2"      "3"      "5"
detail

*A:Dut-B-UNI-C>tools>dump>router>gmpls# path "2"
Path "2",  PathIndex: 2,  NumHops: 2,  LspPathCount: 1,  EmptyPathLspBindCount: 0,
Flags: 0x0
Total Path Count: 1

*A:Dut-B-UNI-C>tools>dump>router>gmpls# path "2" detail
-------------------------------------------------------------------------------
Path "2",  PathIndex: 2
  AdminState: UP,  OperState:UP
  LastChange: 02/04/2015 23:30:34
  NumHops: 2,  LspPathCount: 1,  EmptyPathLspBindCount: 0, Flags: 0x0
    Hop: 1,  NodeId: 52.52.52.52,  TeLinkId: 1010702,  Loose
      LastChange: 02/04/2015 23:30:34
    Hop: 2,  NodeId: 10.27.255.219,  TeLinkId: 1010702,  Strict
      LastChange: 02/04/2015 23:30:34
-------------------------------------------------------------------------------
Total Path Count: 1
```

peer

Syntax **peer** [*peer-node-id*] [**detail**]

Context tools>dump>router>gmpls

Description This command dumps information about peer nodes. Configuring the *peer-node-id* parameter will only dump information about the specified peer node.

Parameters *peer-node-id* — The identifier of the peer node.

Values a.b.c.d | 1 — 4294967295

detail — Keyword to output information in greater detail.

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>gmpls# peer 10.27.255.213
PEER: vrId 1 PeerAddr 10.27.255.213,  AdminState: UP,  OperState: UP,  HelloState: UP
Total Peer Count: 1

*A:Dut-B-UNI-C>tools>dump>router>gmpls# peer 10.27.255.213 detail
PEER vrId 1 PeerAddr 10.27.255.213
  AdminState: UP,  OperState:UP,  OperDownReason: N/A
  LastChange: 02/04/2015 23:30:34,  UpTime: 0d 15:12:39
  HelloInterval: 3000msecs, LspHoldTime: 60secs
  Flags: 0x30,  HelloState: Up
  SrcInst: 0xffffff16,  DstInst: 0x54d2ba31,  PrevSrcInst: 0xffffff16
  PeerDownCount: 13,  InstMismatchCount: 2,  TimeoutCount: 0

  Source: 52.52.52.52,  Dest: 10.27.255.213  NextHop: 172.21.36.173 [If: 3]
  Status: Up,  MTU: 0,  NumChngInNextHop: 0,  LastChange: 02/05/2015 10:53:24

  GrHEpoch: 0x5b298,  RestartTime: 4294967295,  RecoveryTime: 90000
  PrevDstInst: 0x0,  InvokedCount: 12,  ScanEvent: N [N N]

  RefreshReduction:
    Local  - MsgId: Enabled,  AckDesired: Enabled,  Srefresh: Enabled, Epoch: 3236554
    Remote - MsgId: Supported,  Srefresh: Supported,  Epoch: 13810201,  HighestMs-
gIdRx: 3670
    NumTxMsgIds: 4,  NumRxMsgIds: 4
    NumOutOfOrderMsg: 0, NumRetransmittedMsg: 11,  NumPendingAckNack: 0
    NextSrefresh: 9sec

  DownstreamSessionCount: 2,  UpstreamSessionCount: 2
  Path Timeouts: 0,  Resv Timeouts: 0

  Packet Statistics:
    Hello Tx   : 17               Hello Rx   : 19338
    Path Tx    : 194              Path Rx    : 424
    PathErr Tx : 0                PathErr Rx : 183
    PathTear Tx: 5                PathTear Rx: 2
    Resv Tx    : 22               Resv Rx    : 58
    ResvErr Tx : 2                ResvErr Rx : 0
    ResvTear Tx: 0                ResvTear Rx: 0
    Notify Tx  : 0                Notify Rx  : 5
    Srfresh Tx : 1946             Srefresh Rx: 1933
    Ack Tx     : 2157             Ack Rx     : 2170
-------------------------------------------------------------------------------
```

```
Total Peer Count: 1
```

port

Syntax **port** [*session-name*] [**sender** *ip-address*] [**detail**]

Context tools>dump>router>gmpls

Description This command dumps information about a port.

Parameters *session-name* — The name of the session. 80 characters max; accepts * as a wildcard character.

sender ip-address — The IP address of the sender, in dotted decimal notation.

Values a.b.c.d

detail — Keyword to output information in greater detail.

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>gmpls# port sender
sender <ip-address>
52.52.52.52  42.42.42.42  62.62.62.62  72.72.72.72

*A:Dut-B-UNI-C>tools>dump>router>gmpls# port sender 42.42.42.42
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: A1::5 Sender: 0.0.0.0"
   TunnelGrpId: 5  MemberId: 5  Mode:LoadSharing
   cfgFarEnd: 42.42.42.42 Flags: 0x0  NumUpdSent: 7  NumSrlgChng: 0
      PSB: vrId: 1 Session (To: 42.42.42.42 - 3 - 52.52.52.52), Sender (52.52.52.52 -
299)
       SRLG Collected :-
         SRLG 27
         SRLG List: Num 2 -->
         4         5
         SRLG 27
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: B1::1 Sender: 42.42.42.42"
   TunnelGrpId: 1  MemberId: 1  Mode:LoadSharing
   cfgFarEnd: 42.42.42.42 Flags: 0x0  NumUpdSent: 24  NumSrlgChng: 0
      PSB: vrId: 1 Session (To: 52.52.52.52 - 1 - 42.42.42.42), Sender (42.42.42.42 -
46)
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: B1::4 Sender: 72.72.72.72"
   TunnelGrpId: 4  MemberId: 4  Mode:LoadSharing
   cfgFarEnd: 72.72.72.72 Flags: 0x0  NumUpdSent: 20  NumSrlgChng: 0
      PSB: vrId: 1 Session (To: 52.52.52.52 - 3 - 72.72.72.72), Sender (72.72.72.72 -
286)
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: B1::6 Sender: 62.62.62.62"
   TunnelGrpId: 6  MemberId: 6  Mode:LoadSharing
   cfgFarEnd: 62.62.62.62 Flags: 0x0  NumUpdSent: 15  NumSrlgChng: 0
      PSB: vrId: 1 Session (To: 52.52.52.52 - 3 - 62.62.62.62), Sender (62.62.62.62 -
871)
```

```
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: C1::3 Sender: 0.0.0.0"
   TunnelGrpId: 3  MemberId: 1  Mode:LoadSharing
   cfgFarEnd: 62.62.62.62 Flags: 0x0  NumUpdSent: 12  NumSrlgChng: 3
     PSB: vrId: 1 Session (To: 62.62.62.62 - 2 - 52.52.52.52), Sender (52.52.52.52 -
297)
      SRLG Collected :-
        SRLG 27
        SRLG 5
        SRLG 27
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: D1::2 Sender: 0.0.0.0"
   TunnelGrpId: 2  MemberId: 2  Mode:LoadSharing
   cfgFarEnd: 72.72.72.72 Flags: 0x0  NumUpdSent: 10  NumSrlgChng: 0
     PSB: vrId: 1 Session (To: 72.72.72.72 - 1 - 52.52.52.52), Sender (52.52.52.52 -
296)
      SRLG Collected :-
        SRLG 27
        SRLG 4
        SRLG 27
-------------------------------------------------------------------------------
Total Port Count: 6

*A:Dut-B-UNI-C>tools>dump>router>gmpls# port sender 42.42.42.42
<session-name>
"A1::5"  "B1::1"  "B1::6"  "B1::4"  "C1::3"  "D1::2"
detail

*A:Dut-B-UNI-C>tools>dump>router>gmpls# port sender 42.42.42.42 detail
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: A1::5 Sender: 0.0.0.0"
   TunnelGrpId: 5  MemberId: 5  Mode:LoadSharing
   cfgFarEnd: 42.42.42.42 Flags: 0x0  NumUpdSent: 7  NumSrlgChng: 0
     PSB: vrId: 1 Session (To: 42.42.42.42 - 3 - 52.52.52.52), Sender (52.52.52.52 -
299)
      SRLG Collected :-
        SRLG 27
        SRLG List: Num 2 -->
        4         5
        SRLG 27
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: B1::1 Sender: 42.42.42.42"
   TunnelGrpId: 1  MemberId: 1  Mode:LoadSharing
   cfgFarEnd: 42.42.42.42 Flags: 0x0  NumUpdSent: 24  NumSrlgChng: 0
     PSB: vrId: 1 Session (To: 52.52.52.52 - 1 - 42.42.42.42), Sender (42.42.42.42 -
46)
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: B1::4 Sender: 72.72.72.72"
   TunnelGrpId: 4  MemberId: 4  Mode:LoadSharing
   cfgFarEnd: 72.72.72.72 Flags: 0x0  NumUpdSent: 20  NumSrlgChng: 0
     PSB: vrId: 1 Session (To: 52.52.52.52 - 3 - 72.72.72.72), Sender (72.72.72.72 -
286)
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: B1::6 Sender: 62.62.62.62"
   TunnelGrpId: 6  MemberId: 6  Mode:LoadSharing
   cfgFarEnd: 62.62.62.62 Flags: 0x0  NumUpdSent: 15  NumSrlgChng: 0
```

```
     PSB: vrId: 1 Session (To: 52.52.52.52 - 3 - 62.62.62.62), Sender (62.62.62.62 -
871)
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: C1::3 Sender: 0.0.0.0"
   TunnelGrpId: 3  MemberId: 1  Mode:LoadSharing
   cfgFarEnd: 62.62.62.62 Flags: 0x0  NumUpdSent: 12  NumSrlgChng: 3
     PSB: vrId: 1 Session (To: 62.62.62.62 - 2 - 52.52.52.52), Sender (52.52.52.52 -
297)
      SRLG Collected :-
        SRLG 27
        SRLG 5
        SRLG 27
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
LspPort "vrId: 1  Type: 0 Session: D1::2 Sender: 0.0.0.0"
   TunnelGrpId: 2  MemberId: 2  Mode:LoadSharing
   cfgFarEnd: 72.72.72.72 Flags: 0x0  NumUpdSent: 10  NumSrlgChng: 0
     PSB: vrId: 1 Session (To: 72.72.72.72 - 1 - 52.52.52.52), Sender (52.52.52.52 -
296)
      SRLG Collected :-
        SRLG 27
        SRLG 4
        SRLG 27
-------------------------------------------------------------------------------
Total Port Count: 6
```

psb

Syntax **psb** [**tunnelid** *tunnel-id*] [**lspid** *lsp-id*] [**detail**]

Context tools>dump>router>gmpls

Description This command dumps information about a PSB.

Parameters *tunnel-id* — The identifier of the tunnel.

Values 0 — 4294967295

lsp-id — The identifier of the LSP.

Values 1 — 65535

detail — Keyword to output information in greater detail.

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>gmpls# psb
PSB:
 vrId: 1 Session (To: 42.42.42.42 - 3 - 52.52.52.52), Sender (52.52.52.52 - 299)
-------------------------------------------------------------------------------
PSB:
 vrId: 1 Session (To: 52.52.52.52 - 1 - 42.42.42.42), Sender (42.42.42.42 - 46)
-------------------------------------------------------------------------------
PSB:
 vrId: 1 Session (To: 52.52.52.52 - 3 - 62.62.62.62), Sender (62.62.62.62 - 871)
-------------------------------------------------------------------------------
```

```
PSB:
 vrId: 1 Session (To: 52.52.52.52 - 3 - 72.72.72.72), Sender (72.72.72.72 - 286)
-------------------------------------------------------------------------------
PSB:
 vrId: 1 Session (To: 62.62.62.62 - 2 - 52.52.52.52), Sender (52.52.52.52 - 297)
-------------------------------------------------------------------------------
PSB:
 vrId: 1 Session (To: 72.72.72.72 - 1 - 52.52.52.52), Sender (52.52.52.52 - 296)
-------------------------------------------------------------------------------
Total PSB Count: 6

*A:Dut-B-UNI-C>tools>dump>router>gmpls# psb tunnelid 1 detail
-------------------------------------------------------------------------------
PSB:
 vrId: 1 Session (To: 52.52.52.52 - 1 - 42.42.42.42), Sender (42.42.42.42 - 46)

PSB CurrState: GMPLS_PSB_UP  PrevState: GMPLS_PSB_UP  Flags: 0x0
isIngress: N   isTransit: N   isEgress: Y
DnStream Peer: None
UpStream Peer: vrId 1 PeerAddr 10.27.255.213
UpStream TELink: vrId 1 TELinkId 1010701,  dBLink: vrId 1 DBLinkId 101070117
   RemoteDBLinkId: 101070117, PortId: 0x2268000, refCnt: 1, State: UP

Sender Template   - Sender: 42.42.42.42,  LspId: 46
Session Attribute -
   Session Name: B1::1
   Ctype: 7,  HoldPri: 1,  SetupPri: 5,  Flags: 0x2
   IncludeGroup: 0x0,  IncludeAllGroup: 0x0,  ExcludeGroup: 0x0
Lsp Attribute - TLV: 1,  Flags: 0x80000
NextPathRefresh: 0secs,  PathRefreshTimeout: 151secs
Path RX Message Id: 2209,  Epoch: 13810201,  Flags: 0x1

PSB RRO : ->
  (1) Unnumbered RouterId 10.27.255.213, InterfaceId 1010701, Flags 0x0
  (2) SRLG 27
  (3) Label 101070117,  Flags 0x0
  (4) Unnumbered RouterId 10.27.255.213, InterfaceId 13004, Flags 0x0
  (5) Label 101070130,  Flags 0x80
  (6) Unnumbered RouterId 10.27.255.215, InterfaceId 13007, Flags 0x0
  (7) SRLG 6
  (8) Label 101070130,  Flags 0x0
  (9) Unnumbered RouterId 10.27.255.215, InterfaceId 1010701, Flags 0x0
  (10) SRLG 27
  (11) Label 101070117,  Flags 0x80
  (12) Unnumbered RouterId 42.42.42.42, InterfaceId 1010701, Flags 0x0
  (13) Label 101070117,  Flags 0x0

PSB ERO : ->
  (1) IPv4Prefix 52.52.52.52/32, Strict [1]

PSB XRO : ->
   NULL XRO
PROTECTION - Flags: 0x0,  E2EProtectionType: 0

             LinkFlags: 0x0, SegProtFlags: 0x0, SegProtType: 0x1
ASSOCIATION - Type: 0,  AssociationId: 46,  Source: 42.42.42.42
NOTIFY REQ  - Node: 10.27.255.213

RSB:
NextResvRefresh: 9secs,  ResvRefreshTimeout: 0secs
Resv TX Message Id: 2661,  Flags: 0x0
```

```
PROTECTION - Flags: 0x0,  E2EProtectionType: 0
             LinkFlags: 0x0, SegProtFlags: 0x0, SegProtType: 0x1

FLOWSPEC : ->
   Ctype: 6 SwitchingGranularity: 1,  MTU: 9212,  TlvFlags: 0x1
   EthBWProfileTlv - Profile: 0,  Index: 0
                     CIR: 10.000 Gbps,  CBS: 10.000 Gbps
                     EIR: infinity,  EBS: infinity
  FILTERSPEC Label : 0
  FILTERSPEC RRO : ->
  (1) Unnumbered RouterId 52.52.52.52, InterfaceId 1010701, Flags 0x0
  (2) Label 101070117,  Flags 0x80

NOTIFY REQ - Node: 52.52.52.52

Bound to LSPPORT: vrId: 1  Type: 0 Session: B1::1 Sender: 42.42.42.42

Num Paths Received       :78
Num Paths Transmitted    :0
Num Resvs Received       :0
Num Resvs Transmitted    :1

Num Summmary Paths Received   :737
Num Summmary Paths Transmitted:0
Num Summmary Resvs Received   :0
Num Summmary Resvs Transmitted:750
Created at 37048 (21983 secs back)
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
PSB:
 vrId: 1 Session (To: 72.72.72.72 - 1 - 52.52.52.52), Sender (52.52.52.52 - 296)

PSB CurrState: GMPLS_PSB_UP  PrevState: GMPLS_PSB_UP  Flags: 0x0
isIngress: Y   isTransit: N   isEgress: N
DnStream Peer: vrId 1 PeerAddr 10.27.255.213
UpStream Peer: None
DnStream TELink: vrId 1 TELinkId 1010702,  dBLink: vrId 1 DBLinkId 101070217
   RemoteDBLinkId: 101070217, PortId: 0x2270000, refCnt: 1, State: UP

Sender Template   - Sender: 52.52.52.52,  LspId: 296
Session Attribute -
   Session Name: D1::2
   Ctype: 7,  HoldPri: 1,  SetupPri: 5,  Flags: 0x2
   IncludeGroup: 0x0,  IncludeAllGroup: 0x0,  ExcludeGroup: 0x0
Lsp Attribute - TLV: 1,  Flags: 0x80000
NextPathRefresh: 3secs,  PathRefreshTimeout: 0secs
Path TX Message Id: 471,  Flags: 0x0

PSB RRO : ->
  (1) Unnumbered RouterId 52.52.52.52, InterfaceId 1010702, Flags 0x0
  (2) Label 101070217,  Flags 0x0

PSB ERO : ->
  (1) Unnumbered RouterId 52.52.52.52, LinkId 1010702, Loose [1]
  (2) IPv4Prefix 10.27.255.213/32, Strict [0]
  (3) Unnumbered RouterId 10.27.255.219, LinkId 1010702, Strict [0]
  (4) IPv4Prefix 72.72.72.72/32, Loose [0]

PSB XRO : ->
   NULL XRO
PROTECTION - Flags: 0x0,  E2EProtectionType: 1
```

```
             LinkFlags: 0x0, SegProtFlags: 0x0, SegProtType: 0x0
ASSOCIATION - Type: 0,  AssociationId: 296,  Source: 52.52.52.52
NOTIFY REQ  - Node: 52.52.52.52

RSB:
NextResvRefresh: 0secs,  ResvRefreshTimeout: 151secs
Resv RX Message Id: 19,  Epoch: 13810201,  Flags: 0x1
PROTECTION - Flags: 0x0,  E2EProtectionType: 1
             LinkFlags: 0x0, SegProtFlags: 0x0, SegProtType: 0x0

FLOWSPEC : ->
   Ctype: 6 SwitchingGranularity: 1,  MTU: 9212,  TlvFlags: 0x1
   EthBWProfileTlv - Profile: 0,  Index: 0
                     CIR: 10.000 Gbps,  CBS: 10.000 Gbps
                     EIR: infinity,  EBS: infinity
  FILTERSPEC Label : 101070217
  FILTERSPEC RRO : ->
  (1) Unnumbered RouterId 52.52.52.52, InterfaceId 1010702, Flags 0x0
  (2) Label 101070217,  Flags 0x0
  (3) Unnumbered RouterId 10.27.255.213, InterfaceId 1010702, Flags 0x0
  (4) SRLG 27
  (5) Label 101070217,  Flags 0x80
  (6) Unnumbered RouterId 10.27.255.213, InterfaceId 13000, Flags 0x0
  (7) SRLG 4
  (8) Label 101070230,  Flags 0x0
  (9) Unnumbered RouterId 10.27.255.219, InterfaceId 13001, Flags 0x0
  (10) Label 101070230,  Flags 0x80
  (11) Unnumbered RouterId 10.27.255.219, InterfaceId 1010702, Flags 0x0
  (12) SRLG 27
  (13) Label 101070217,  Flags 0x0
  (14) Unnumbered RouterId 72.72.72.72, InterfaceId 1010702, Flags 0x0
  (15) Label 101070217,  Flags 0x80

NOTIFY REQ - Node: 10.27.255.213

Bound to LSPPORT: vrId: 1  Type: 0 Session: D1::2 Sender: 0.0.0.0

Num Paths Received       :0
Num Paths Transmitted    :1
 Num Resvs Received       :23
Num Resvs Transmitted    :0

Num Summmary Paths Received   :0
Num Summmary Paths Transmitted:1834
Num Summmary Resvs Received   :1824
Num Summmary Resvs Transmitted:0
Created at 4439 (54592 secs back)
-------------------------------------------------------------------------------
Total PSB Count: 2
```

status

Syntax **status**

Context tools>dump>router>gmpls

Description This command dumps general GMPLS status information.

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>gmpls# status
-------------------------------------------------------------------------------
  GMPLS instance vrId: 1
  AdminState: UP,  OperState:UP, OperDownReason: N/A
  Flags: 0x0,  localNodeId: 52.52.52.52
  InitRetryTimeout: 30    KeepMultiplier: 3     RefreshTime: 30
  RapidRetransmitTime: 5    RapidRetryLimit: 3
  GrRestartTime: 180   GrRecoveryTime: 300

  gLspWPOriginate: 3    gLspWPTransit: 0    gLspWPTerminate: 3
  gLspPPOriginate: 0    gLspPPTransit: 0    gLspPPTerminate: 0
  NumTELink: 6     NumDB: 6     NumLspPort: 6     NumTunGrp: 6
  Num gLsp: 3     Num gLspPath: 3     Num Path: 4
  NumLspPortAudited: 0     NumStaleLspPortDeleted: 0
-------------------------------------------------------------------------------
```

te-link

Syntax **te-link** [*te-link-id*] [**detail**]

Context tools>dump>router>gmpls

Description This command dumps information about TE links. Configuring the *te-link-id* parameter will only dump information about the specified TE link.

Parameters *te-link-id* — The identifier of the TE link.

Values 1 — 4294967295 | *te-link-name*

detail — Keyword to output information in greater detail.

Sample Output

```
*A:Dut-B-UNI-C>tools>dump>router>gmpls# te-link
<te-link-id>
1010701  1010702  1010703  1010704  1010705  1010706
detail

*A:Dut-B-UNI-C>tools>dump>router>gmpls# te-link 1010701

TE-LINK    "vrId 1 TELinkId 1010701"
  AdminState: UP,  OperState:UP
  LastChange: 02/04/2015 23:30:34
  Peer: 10.27.255.213   RemoteTELinkId: 1010701   NumDbLink: 1
-------------------------------------------------------------------------------
Total TE-Link Count: 1

*A:Dut-B-UNI-C>tools>dump>router>gmpls# te-link 1010701 detail

TE-LINK    "vrId 1 TELinkId 1010701"
  AdminState: UP,  OperState:UP
  LastChange: 02/04/2015 23:30:34
  Peer: 10.27.255.213   RemoteTELinkId: 1010701   NumDbLink: 1
```

```
-------------------------------------------------------------------------------
Total TE-Link Count: 1
```