

# RSVP-TE Extensions to Exchange MPLS-TP LSP Identifiers

CCAMP/MPLS WG, IETF 82th, Taipei

[draft-zhang-ccamp-mpls-tp-rsvpte-ext-tunnel-num-01](#)

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# Problem Statement

- Mis-Connectivity Defect ([RFC6371](#))
  - A sink MEP identifies a mis-connectivity defect based on the comparison of the expected MEP\_ID (pre-stored) and received MEP\_ID (inserted in the proactive CC-V OAM packet) .
  - A1/Z9 needs to configure each other's MEP\_ID before sending the proactive CC-V OAM packet
  - The format of the MEP\_ID : Global\_ID::Node\_ID::Tunnel\_Num::LSP\_Num ([RFC6370](#))
- Gap Analysis
  - Statically configured LSPs, A1/Z9 can configure each other's MEP\_ID by GAP messages ([draft-fbb-mpls-gach-adv-00](#))
  - Dynamically established LSPs
    - A1 needs to configure the tunnel number configured at Z9 node (co-routed bidirectional LSP)
    - A1/Z9 needs to know each other's Global\_ID (co-routed/associated bidirectional LSP)
    - The above information are not covered by the current signaling protocol

Focusing on the control plane solution

# Protocol Extensions

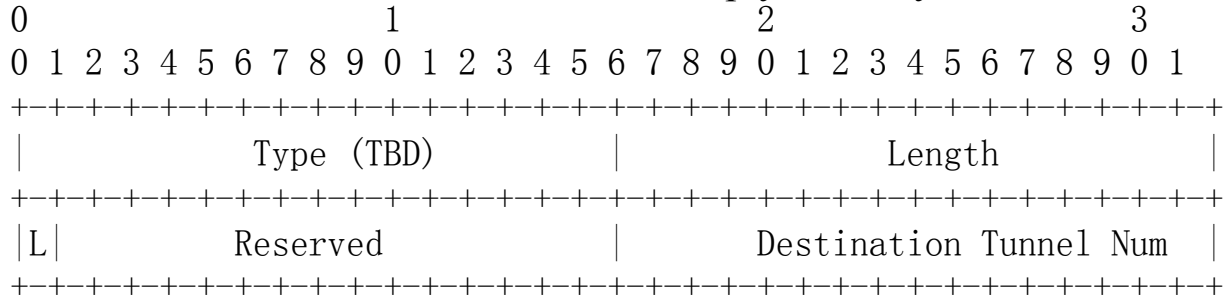
## ● LSP\_ATTRIBUTES object

✓ LSP Attribute Flags, one new bit defined: “LSP identifier indication”

✓ Two new TLVs

➤ Connection TLV (appear in Path/Resv message of co-routed bidirectional LSP)

- L bit is set, The value carried in “Destination Tunnel Num” must be configured at Z9
- L bit not set, “Destination Tunnel Num” can be empty/filled by the recommended value



➤ Global\_ID TLV

- For co-routed bidirectional LSP, it can appear in Path/Resv message
- For associated bidirectional LSP, only appears in the Path message



# Next Steps

- **Updated based on the discussions**

- ✓ Be individual?

- ✓ As an input to [draft-ietf-ccamp-rsvp-te-mpls-tp-oam-ext-07](#) ?

- **Comments/Feedback?**

