

LDP Extensions for Multi Topology Routing

draft-ietf-mpls-ldp-multi-
topology-05.txt

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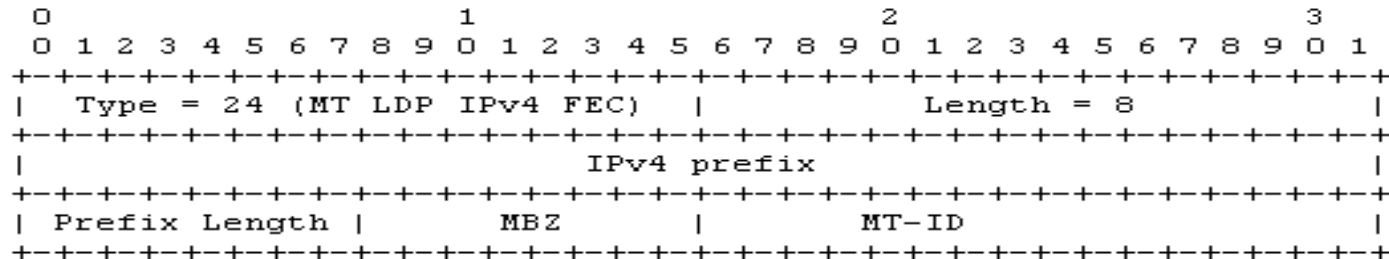
Changes in This Version

- **LSP Ping**

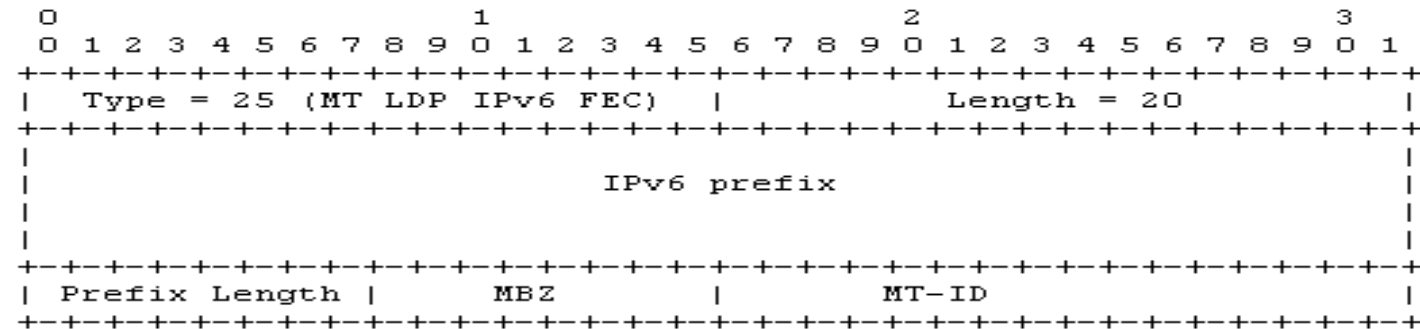
- **Existing LSP Ping** [RFC4379] defines procedures to detect data-plane failures in MPLS LSPs via LSP ping.
 - The specification defines a "Target FEC Stack" TLV that describes the FEC stack being tested.
 - "Target FEC Stack" TLV contains one or more sub-TLVs pertaining to different FEC types, where it doesn't support the sub type of MT LDP FEC. (Thanks Pranjali for raising this issue!)
- **LSP Ping for MT LDP LSP**
 - This version of the document proposes the IPv4/IPv6 FEC Sub-TLV extensions to [RFC-4379] so that the LSP ping works for MT LDP LSP.

MT LDP LSP Ping Extensions' Details

- **MT LDP IPv4 FEC Sub-TLV**



- **MT LDP IPv6 FEC Sub-TLV**



- **Operation Considerations**

- The Echo Request packet is sent with the label binded to the IP Prefix in the specified topology.
- The reply packet may go through the default topology instead of the topology where the Echol Request goes through.

Next Steps

- **Next Steps**

- We would like do a final reviews:
 - Use Cases
 - Procedures
 - Error Handling
- Document is relatively stable and looking to Last Call soon.