

LDP Extensions for Multi Topology Routing

draft-ietf-mpls-ldp-multi-topology-01.txt

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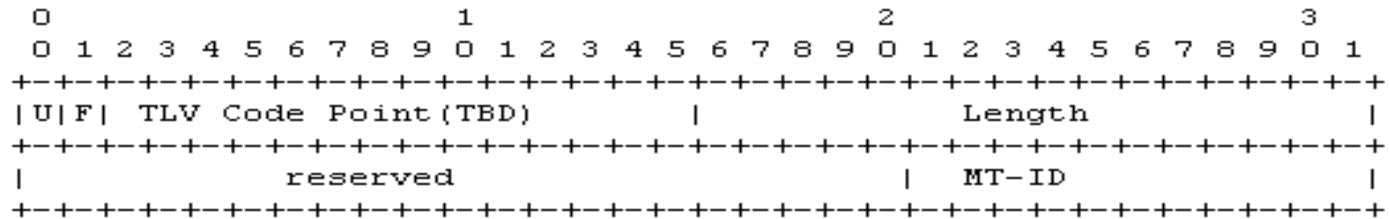
Updates in the draft

- Thanks for the comments from Eric Rosen and Daniel King
- New author Kamran Raza has joined this work.
- The main updates in the drafts:
 - Cleaned up significant portions of text by removing the discussion related to the forwarding for readability and streamlining the draft.
 - Added a Manageability Considerations section.
 - Added Requirements Language and used language across various sections of the document.
 - MT Applicability on FEC-based features section is added.
 - Updated the references, especially the new LDP specification draft (RFC5036) which recently replaced RFC3036.
- The main pending issues for the current version of the draft: The choices of MPLS Multiple Topology ID representation

Updates in the draft

- MPLS Multiple Topology ID representation Option 1 : define a new TLV for MT-ID

The new TLV for MT-ID is defined as below:



where:

U and F bits:

As specified in [[RFC5036](#)].

TLV Code Point:

The TLV type which identifies a specific capability.

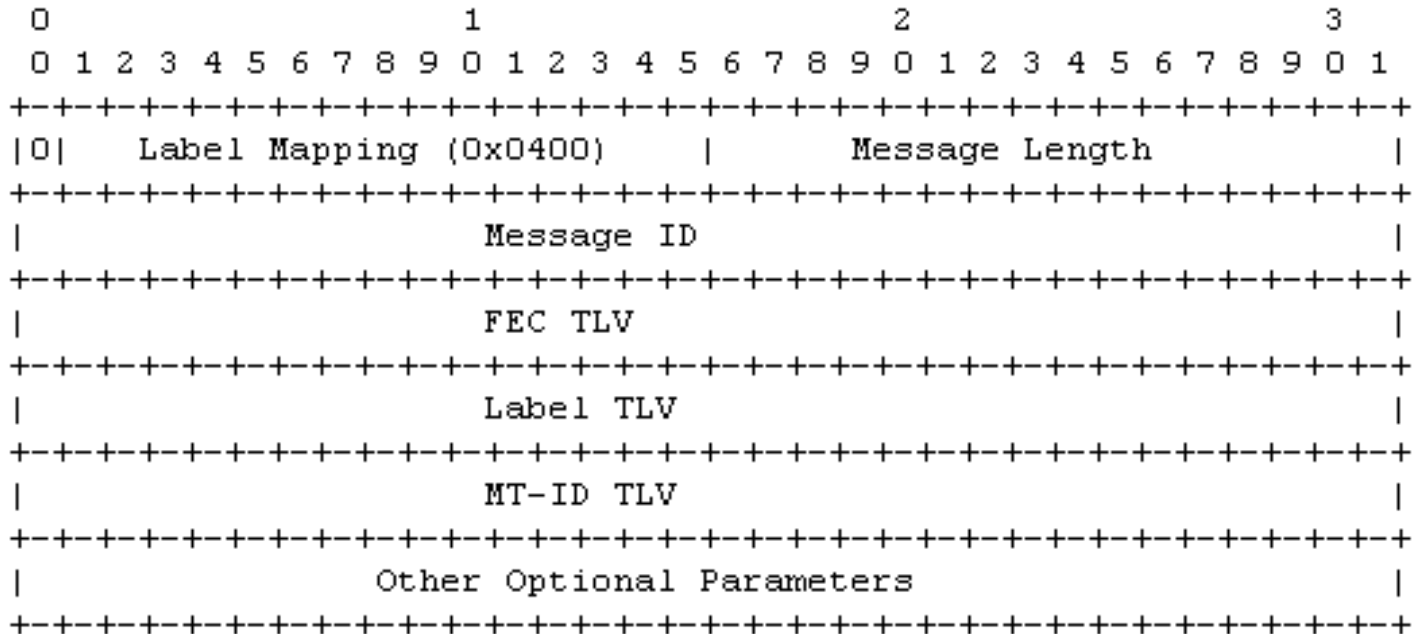
MT-ID is a 12-bit field containing the ID of the topology corresponding to the MT-ID used in IGP and LDP. Lack of MT-ID TLV in messages MUST be interpreted as FECs are used in default MT-ID (0) only.

A MT-ID TLV can be inserted into the following LDP messages as an optional parameter.

Updates in the draft

- Label Mapping Message Example using MPLS Multiple Topology ID representation Option 1:

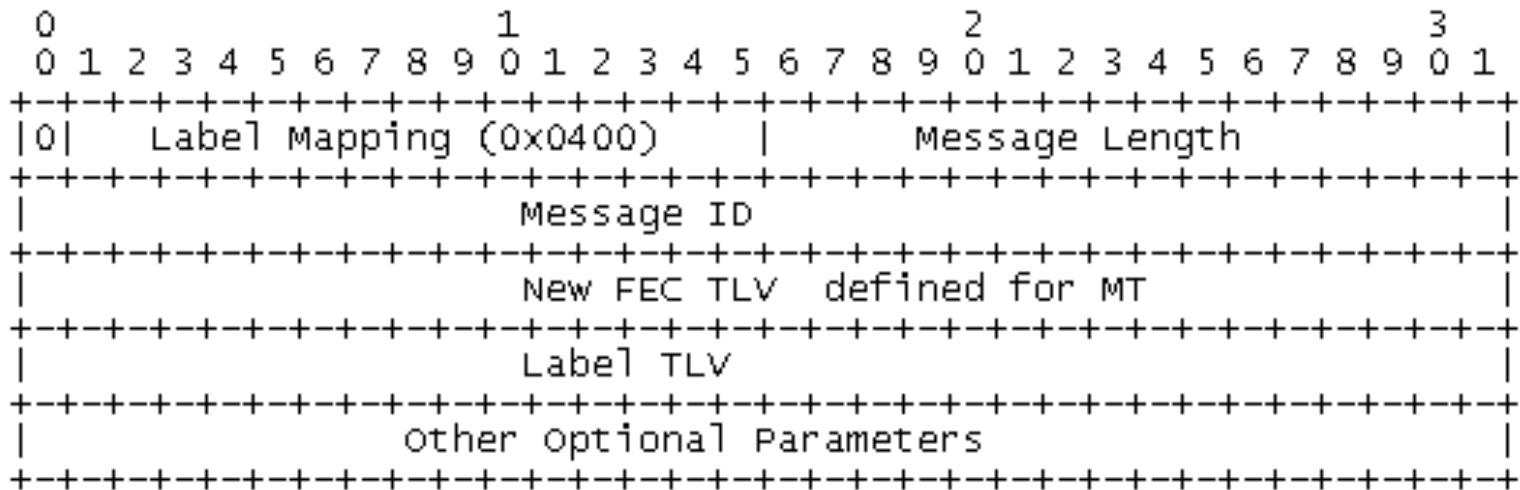
The encoding for the Label Mapping message is:



Updates in the draft

- Label Mapping Message Example using MPLS Multiple Topology ID representation Option 2:

The encoding for the Label Mapping message is:



Next Steps

- The authors will update the draft to include the details of the third option for the representation of MPLS Multiple Topology ID.
- The authors request WG experts to review and comment on the three choices of the representation of MPLS Multiple Topology ID.

Questions
&
Comments?

Thanks!