

# IETF88

## Framework for Point-to-Multipoint MPLS-TP

draft-hmk-mpls-tp-p2mp-oam-framework-03.txt

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# Scope

- This draft specifies OAM and management in MPLS-TP P2MP paths.
- This draft complements draft-fbb-mpls-tp-p2mp-framework in terms of OAM and management

# History

- Detailed OAM requirements on mpls-tp p2mp paths
- Clarified definitions of a return path
  - RP-N(to EMS/NMS) and RP-HE(to a head end)
- Added a requirement for M-leaves monitoring scenario
- Refined existing OAM requirements RFC5860
- Added requirements for scenarios for adding/removing of a branch tree in p2mp transport path

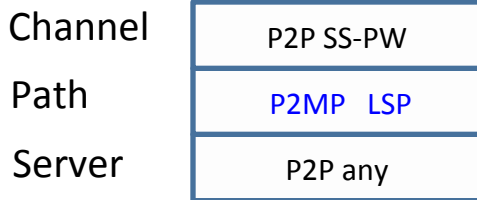
## Main updates from -02 to -03

- Added section 4 to explain layer models
- Added section 5 for applicable scenario: MPLS-TP P2MP for VPMS.
- Added two references in section 8
  - draft-ietf-pwe3-p2mp-pw-requirements-05 (work in progress)
  - draft-ietf-l2vpn-vpms-frmwk-requirements-05 (work in progress)
- Dealt with comments in a liaison from ITU-T SG15

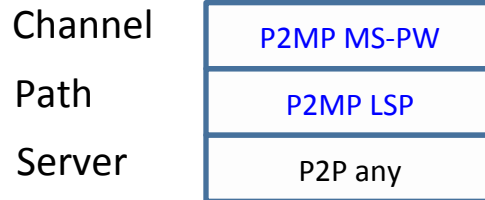
<https://datatracker.ietf.org/liaison/1275/>

# Layer models

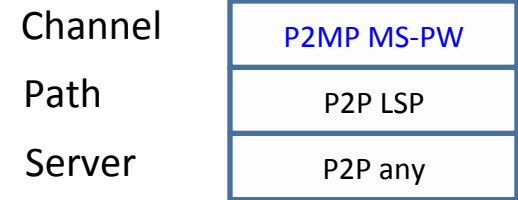
- Three patterns of combinations of layers can be considered in configurations of mpls-tp p2mp transport paths
- Prioritize a model 1 in which P2P SS-PW is applied in channel layer and P2MP LSP is applied in path layer in aligning with a direction of draft-ietf-pwe3-p2mp-pw-requirements. Other models are FFS.



**Model 1**



**Model 2**



**Model 3**

# Next steps

- Solicit comments
- Discuss models in both Per-interface and per-node models
  - ✓ Including comments during last call of draft-ietf-mpls-tp-p2mp-framework in case that both MEP and MIP functionality are configured on an intermediate node in an MPLS-TP p2mp transport path.
- Refine OAM functions in P2MP transport path respectively
- Request for adaptation as WG document