Encapsulation For MPLS Inband Performance Measurement

draft-cheng-mpls-inband-pm-encapsulation-00

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Intention of this draft

• Defines the encapsulation for MPLS inband performance measurement:

  – Here inband performance measurement is based on Alternate Marking Method (RFC 8321)

  – MPLS flow identification (RFC 8372) is necessary for inband performance measurement. Synonymous Flow Label (SFL) is a method for this, but the method specified in this document is more suitable for the applied SR-MPLS networks
Inband PM Encapsulation

- **Flow-ID label** indicated by a **special-purpose label** includes:
  - **Flow-ID**: 20-bits MPLS flow identification
  - **L bit**: Loss Measurement color marking
  - **D bit**: Delay Measurement color marking
  - **S bit**: Bottom of Stack indicator
This example illustrates the scenario where inband PM is applied to LSP in SR-MPLS network.
This example illustrates the scenario where inband PM is applied to PW/VRF in SR-MPLS network.
This example illustrates the scenario where inband PM is applied to both LSP and PW/VRF in SR-MPLS network.
Next steps

• Ask for more reviews and comments
• Revise this draft to resolve comments
• Ask for WG adoption