

Encapsulation For MPLS Inband Performance Measurement

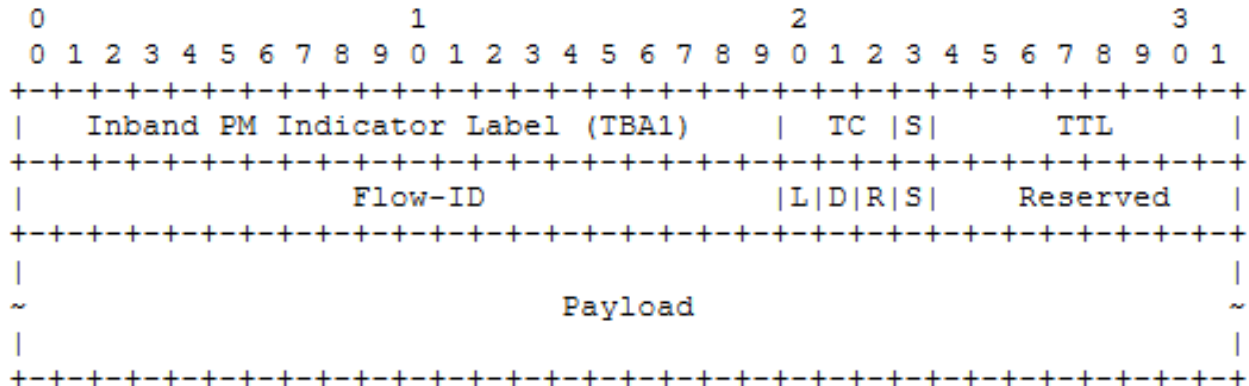
draft-cheng-mpls-inband-pm-encapsulation-00

Weiqiang Cheng chengweiqiang@chinamobile.com
Xiao Min xiao.min2@zte.com.cn
Tianran Zhou zhoutianran@huawei.com
Ximing Dong dxm@fiberhome.com

Intention of this draft

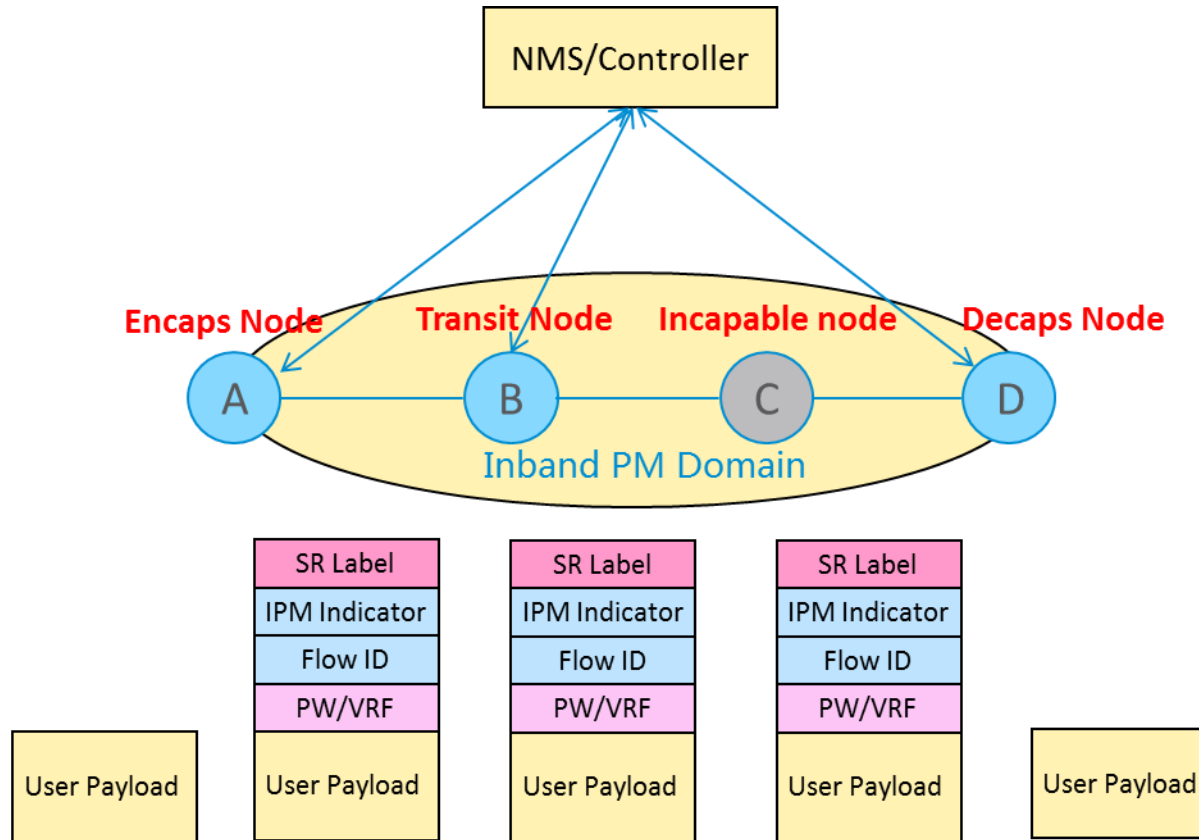
- Defines the encapsulation for MPLS inband performance measurement:
 - Here inband performance measurement is based on Alternate Marking Method (RFC 8321)
 - MPLS flow identification (RFC 8372) is necessary for inband performance measurement. Synonymous Flow Label (SFL) is a method for this, but the method specified in this document is more suitable for the applied SR-MPLS networks

Inband PM Encapsulation



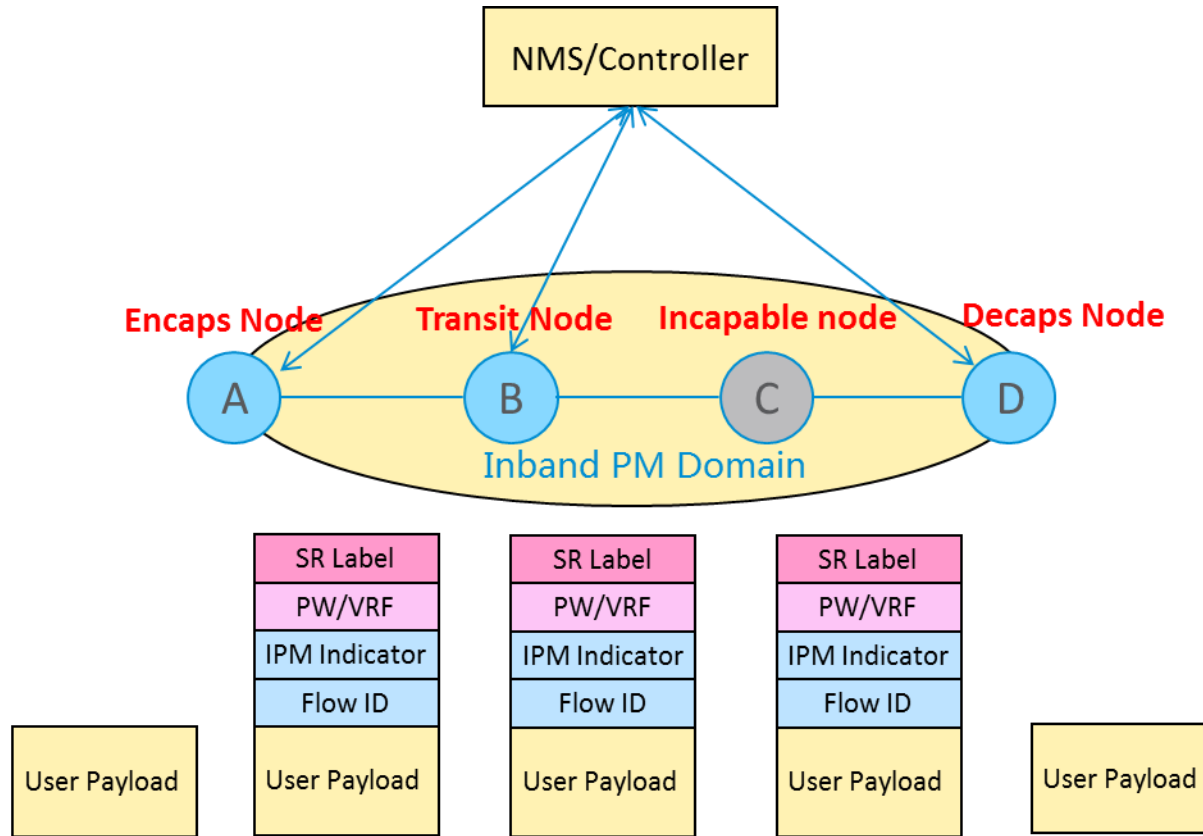
- **Flow-ID label** indicated by a **special-purpose label** includes:
 - **Flow-ID:** 20-bits MPLS flow identification
 - **L bit:** Loss Measurement color marking
 - **D bit:** Delay Measurement color marking
 - **S bit:** Bottom of Stack indicator

Label Stack Examples (1/3)



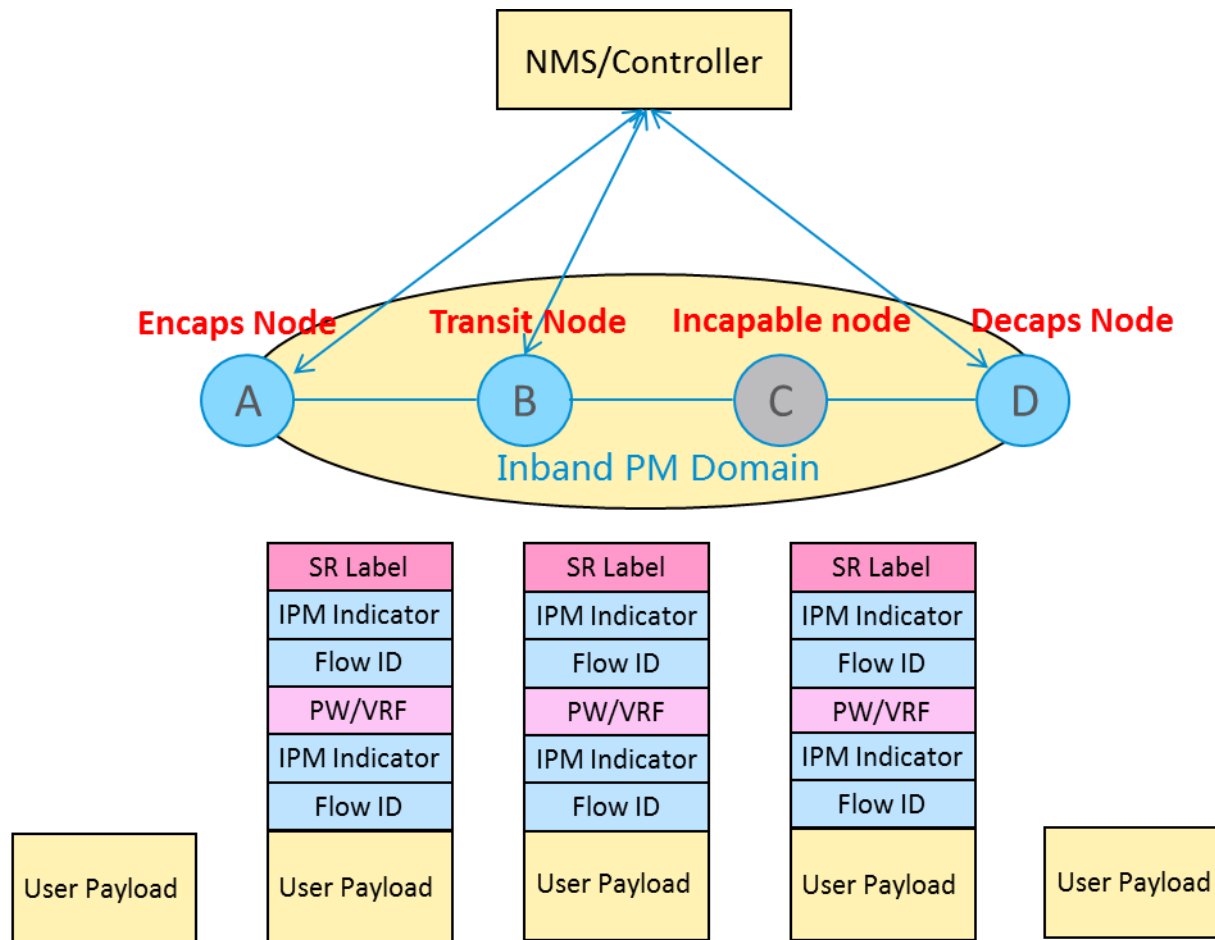
- This example illustrates the scenario where inband PM is applied to LSP in SR-MPLS network

Label Stack Examples (2/3)



- This example illustrates the scenario where inband PM is applied to PW/VRF in SR-MPLS network

Label Stack Examples (3/3)



- 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