Multicast and Ethernet VPN with Segment Routing Point-to-Multipoint Trees

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Introduction

• Specifies procedures for delivering MVPN and EVPN service over Segment Routing P2MP trees
• Replaces draft-parekh-bess-mvpn-sr-p2mp
  • Published in March 2019, covered only MVPN services
• Current draft adds procedures for EVPN multipoint service
Overview

- Procedures for binding MVPN/EVPN service to a SR P2MP tree
  - draft-ietf-pim-sr-p2mp-policy and draft-ietf-spring-sr-replication-segment specify procedures for building SR P2MP trees
  - Drafts adopted in PIM and SPRING WG respectively

- Root of the P2MP service discovers endpoints using MVPN/EVPN BGP Auto-Discovery routes
  - Creates/updates SR P2MP policy on the PCE with endpoint set
  - PCE computes and instantiates the P2MP tree as described in draft-ietf-pim-sr-p2mp-policy

- New tunnel-type in PMSI Tunnel Attribute for specifying SR P2MP P-tunnel information
  - Tunnel-identifier of SR P2MP P-tunnel is `<Tree-ID, Root>`
Next steps

- Seeking comments
- Questions?