

PIM Proxy in EVPN Networks

draft-skr-bess-evpn-pim-proxy-01

Jorge Rabadan (Nokia)

Jayant Kotalwar (Nokia)

Senthil Sathappan (Nokia)

Zhaohui Zhang (Juniper)

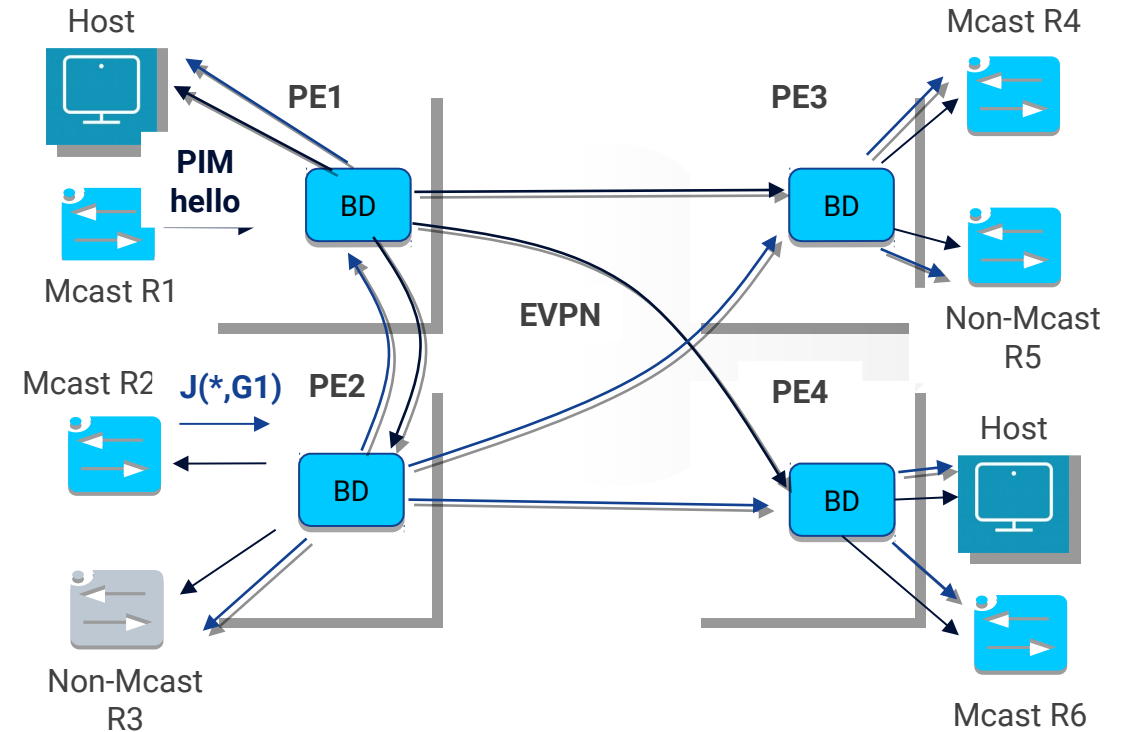
Ali Sajassi (Cisco)

IETF100, Nov 2017
Singapore

Refresher

Need to reduce flooding in an EVPN Broadcast Domains that are used as a "shared LANs" for PIM routers.

- Similarly to proxy-ARP/ND and IGMP proxy in EVPN
 - VPLS also supports PIM Proxy
- Objectives
 1. Reduce/eliminate PIM message flooding in the core and to hosts/non-multicast routers. Focus on Hello and J/P messages.
 2. Forward IP multicast streams efficiently.
 3. Avoid IP multicast duplication and Assert procedures in the EVPN BD.
 4. Provide a fast failover multi-homing solution for PIM routers.



Updates in rev 01

Sections on PIM Dense Mode, Bootstrap and RP discovery removed

Agreement to reuse (and extend) EVPN routes in draft-ietf-bess-evpn-igmp-mld-proxy

- SMET route for PIM proxy is reused from IGMP proxy draft

- IGMP Join Synch route is reused and renamed to IGMP/PIM Join Synch route

Added caveat in the Assert Optimization Procedures for Upstream PEs.

- Sources and non-selected Upstream Neighbors should not share a BD's AC for a given group

Next steps

The Authors would like to request Working Group Adoption

Thank you