

EVPN Multicast Forwarding for EVPN to EVPN Gateways

draft-rabnic-bess-evpn-mcast-eeg-03

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Refresher

Multicast in EVPN Service Gateways – filling an existing gap in the specs

Gap in EVPN Layer 2 Service Gateways

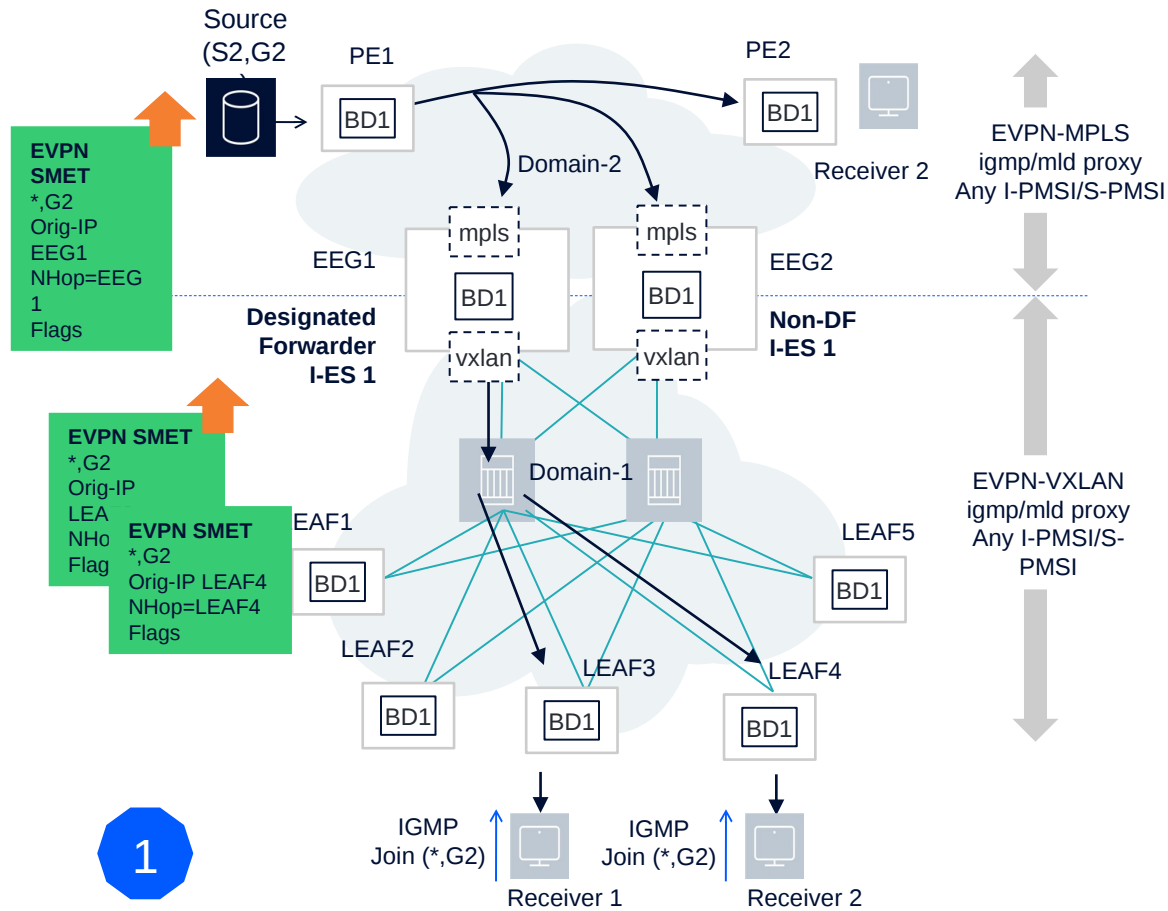
- RFC9251 defines IGMP/MLD proxy in an EVPN Broadcast Domain (single domain)
- RFC9014 defines the EVPN Layer 2 interconnect (Integrated model) where the Service Gateway connects two or more EVPN domains. Behavior is specified for unicast and BUM, but not IP multicast.
- The missing piece: Inter domain solution for multicast in RFC9014 Service Gateways

EVPN Layer 3 Service Gateways

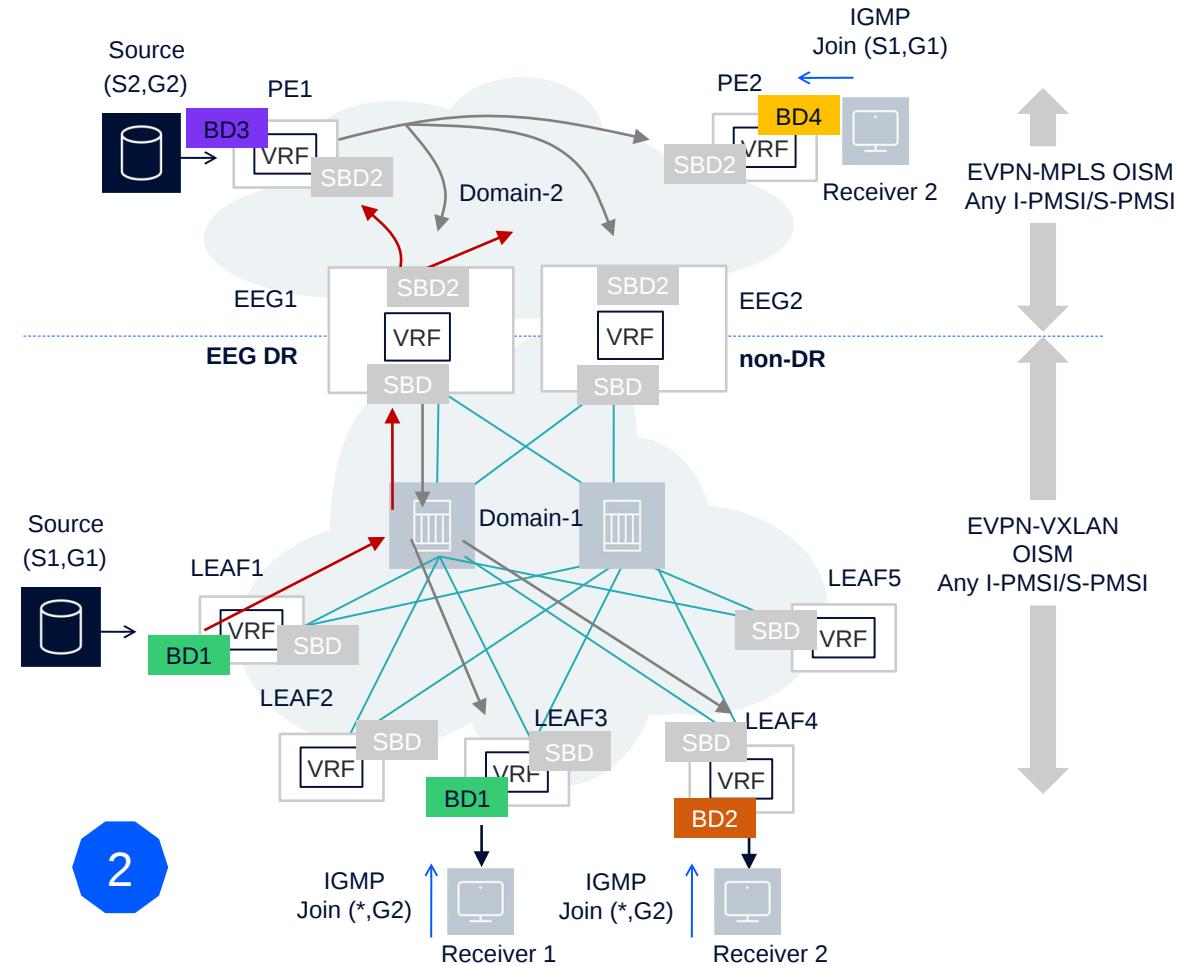
- draft-ietf-bess-evpn-ipvpn-interworking defines Service Gateway procedures to interconnect EVPN L3 domains for unicast traffic
- draft-ietf-bess-irb-mcast defines Service Gateway procedures to interconnect EVPN OISM domains to PIM or MVPN domains
- The missing piece: Inter domain solution for multicast in draft-ietf-bess-evpn-ipvpn-interworking Service Gateways

EEG procedures for L2 GWs and L3 GWs

Example for EVPN-MPLS to EVPN-VXLAN gateways
Valid for any combination of transport at both domains



Example for EVPN-MPLS to EVPN-VXLAN gateways
Valid for any combination of transport at both domains



Changes since version 00

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- Version 00 presented in IETF 115
- Ever since the document has been refreshed up to version 3, with the following changes:
 - Terminology section improved, typos and updated references
 - Fixed an issue about the aggregation of SMET routes (*,G) and (S,G) – EEGs send the minimum set of SMET routes
 - The following sentence is not correct and was removed:
~~“This assumes the same version flags are received on the SMET routes for (*,G2) and (S1,G2)”~~

Next Steps

1. More feedback from the WG
2. Ask for WG adoption

Thank you