MVPN using BIERv6

draft-xie-bier-ipv6-mvpn-01

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Function Specific IPv6 Addr: Src.DT4

- An IPv6 address used as SA of BIERv6 packet, to identify an MVPN instance instead of the upstream-assigned VpnLabel.

- An IPv6 address used as DA of ICMPv6 packet, to support ICMP error reported to this address.
MVPN using BIERv6 Procedure

Ingress PE

S-PMSI A-D route
NLRI: (RD, S, G, OrigIP)
PMSI: (Sd, bfr-pfx, bfr-id)
PrefixSID: (Src.DT4)

Leaf A-D route
NLRI: (RD, S, G, OrigIP, LeafIP)
PMSI: (Sd, bfr-pfx, bfr-id)

Egress PE

McastOverlayInfo
(Vrf, S, G, Src.DT4, Sd, BSL, SI, BitString)

McastOverlayInfo
(Src.DT4, Vrf)
Function Specific IPv6 Addr: Src.DT4

- When this address used as IPv6 DA
  1. IF NH = ICMPv6 ;;Ref1
  2. Send to CPU.
  3. ELSE
  4. Drop the packet.
Request for

- Comments/questions/discussions!

Thank you!