

MVPN / EVPN Composite Tunnel

draft-zzhang-bess-mvpn-evpn-composite-tunnel-00

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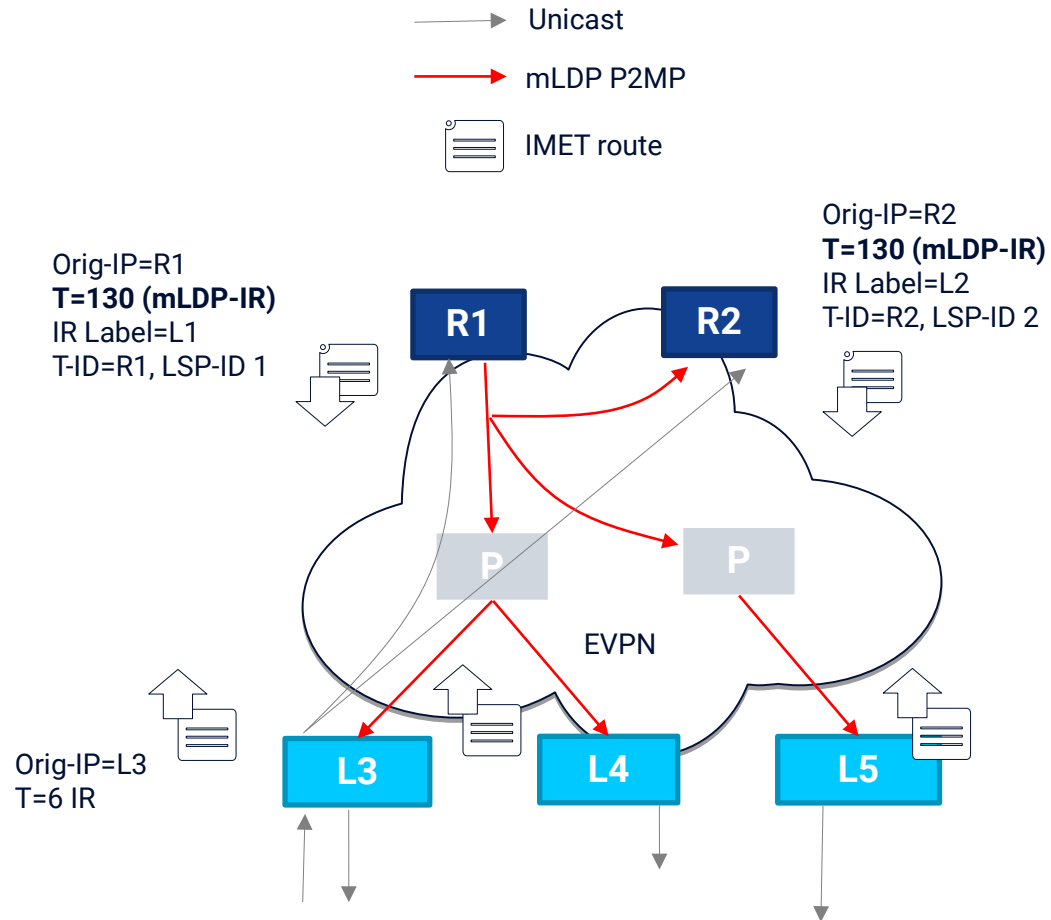
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Generalizing the concept of the RFC8317 Composite Tunnels Used in EVPN E-Tree



RFC8317 Composite Tunnel

Tunnel Type advertised by the Root PE in the EVPN IMET routes, that indicates P2MP in Tx and IR in Rx

Goal of this draft

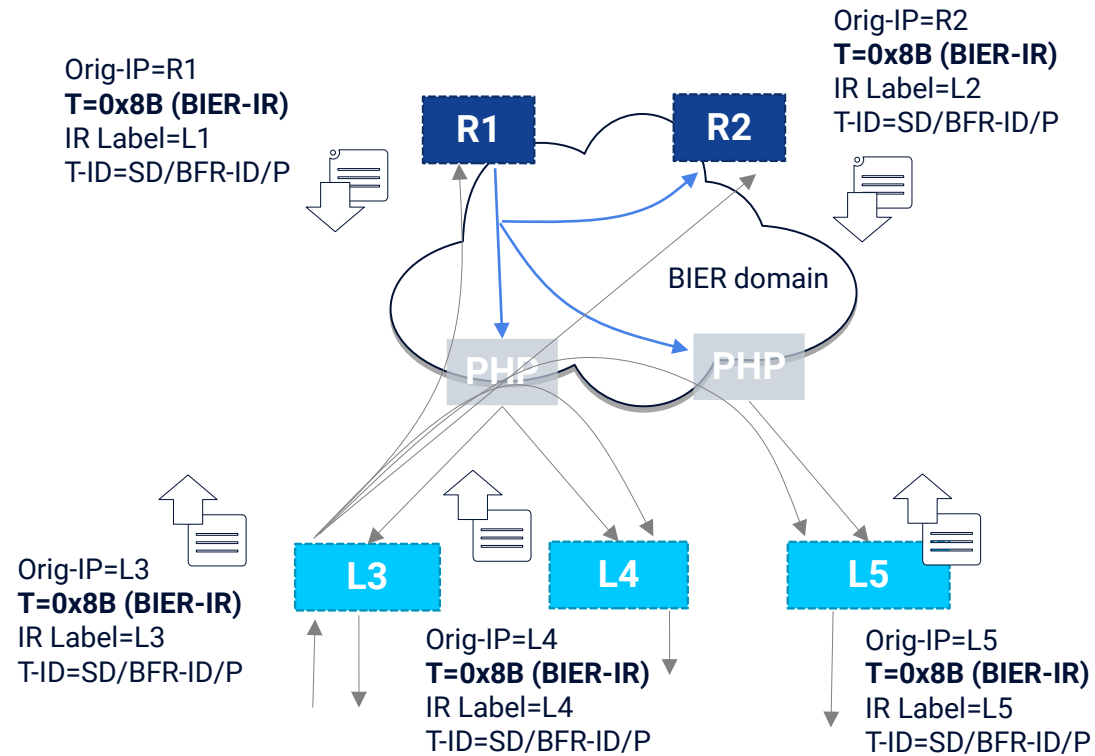
Extend composite tunnels to:

- MVPN I-PMSI A-D routes
- MP2MP
- EVPN Assisted Replication
- Advertising PEs can also use IR in Tx

Describe Composite Tunnel Use-cases

Composite Tunnel Use-Cases

BIER introduction in EVPN networks



Use-case 1 – Composite BIER-IR Tunnels

Used along with [EVPN-BIER] and [BIER-PHP] to introduce BIER in EVPN networks with non-capable BIER PEs

R1 and R2 use BIER

Leafs use IR

→ IR/unicast

→ BIER

IMET route

Composite Tunnel Use-Cases

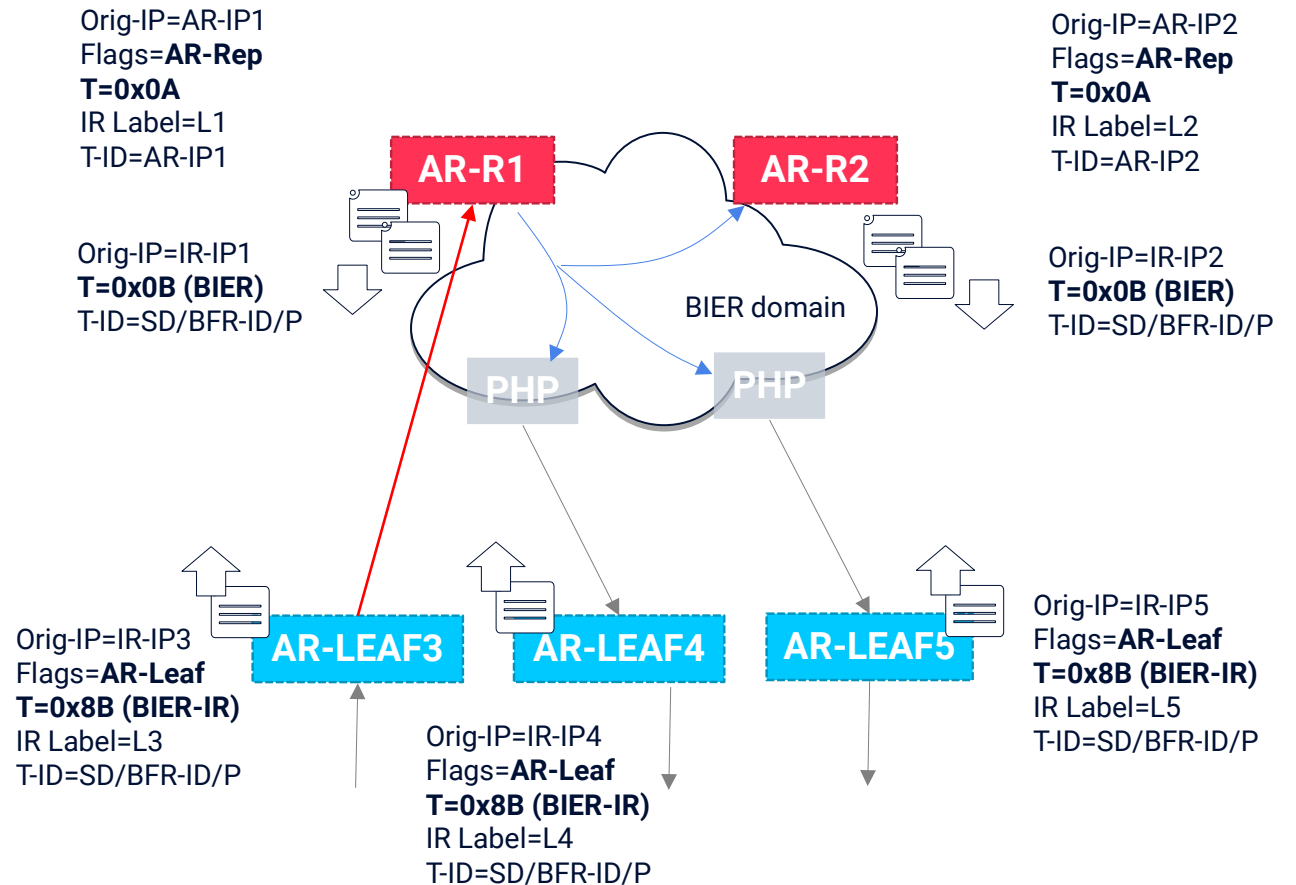
BIER introduction in EVPN networks

Use-case 2 – Composite BIER-IR Tunnels with AR

Used along with [EVPN-AR], [EVPN-BIER] and [BIER-PHP] to introduce BIER in EVPN networks with non-capable BIER PEs, with a single copy from Leafs

R1 and R2 use BIER

Leafs use AR to AR-R, fall back to IR if no AR-Rs are left



Next steps

The Authors would like to request Feedback

Thank you