Interconnect Solution for EVPN Overlay networks

draft-ietf-bess-dci-evpn-overlay-03

Jorge Rabadan (Nokia)

Senthil Sathappan (Nokia)

Wim Henderickx (Nokia)

Senad Palislamovic (Nokia)

Ali Sajassi (Cisco)

Dennis Cai (Cisco)

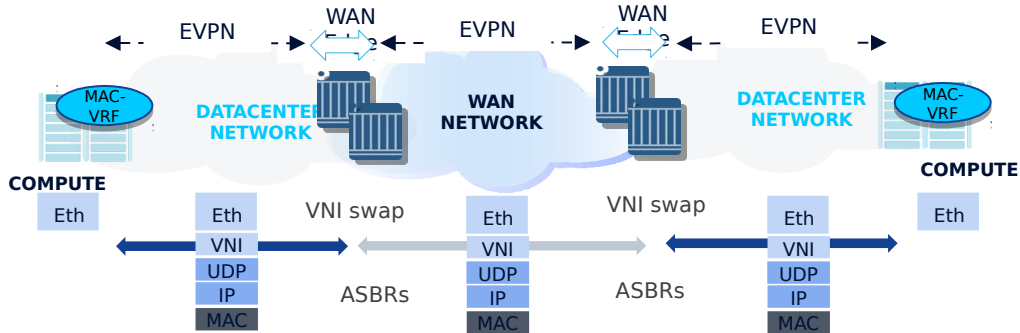Ravi Shekhar (Juniper)

John Drake (Juniper)

Anil Lohiya (Juniper)
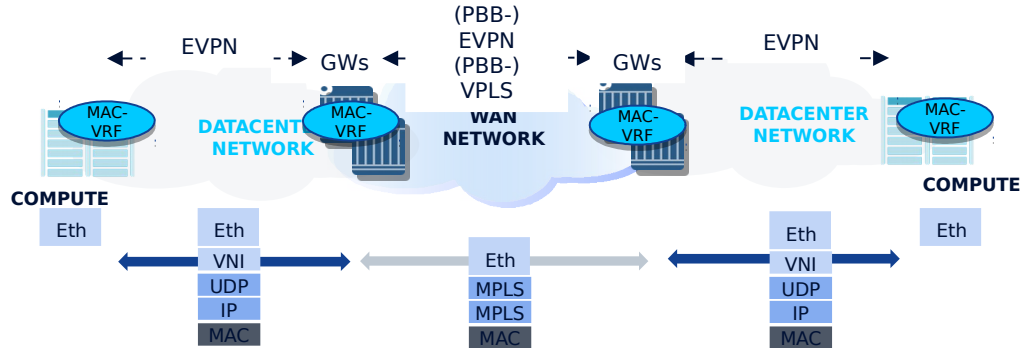
IETF 96, July 2016
Berlin, Germany

How to interconnect EVPN-overlay networks
Refresh

**Interconnect without a GW - draft-ietf-bess-evpn-overlay**
- No MAC-VRF instance on WAN Edge routers
- WAN Edge routers are ASBRs, with VNIDs used as local significant values
- draft-heitz-bess-evpn-option-b addresses multi-homing

Interconnect with a GW - draft-ietf-bess-dci-evpn-overlay
- MAC-VRF instances in GWs to provide an interconnect to heterogeneous WAN networks
- GWs can use VNIDs as local or global values
- GWs support local ACs
- GWs protect/isolate the DCs

What's new in rev 03
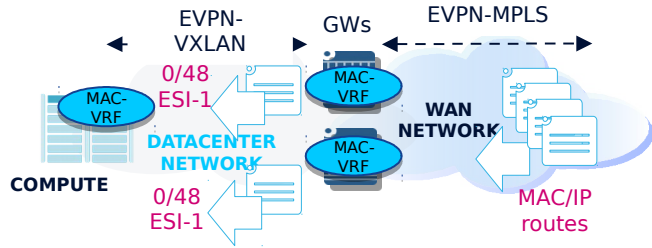
Use of the unknown-mac-route has been clarified

- Unknown-mac-routes (UMR) reduce the amount of MAC/IP routes in the DC
- UMRs solve transient duplicate situations
- UMRs support aliasing/backup procedures

Other changes:

- GWs SHOULD use different route-distinguishers for WAN and DC routes
- GWs MAY use different I-ESIs for WAN and DC routes
- Inter-GW connectivity: preference between EVPN-MPLS and EVPN-Overlay routes MAY be by policy

Next Steps

- Authors will submit rev 04 with final tweaks

- Afterwards, the draft will be ready for WG LC review

Thank you
draft-ietf-bess-dci-evpn-overlay@ietf.org