Interconnect Solution for EVPN Overlay

networks

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

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How to interconnect EVPN-overlay networks

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
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