

Interconnect Solution for EVPN Overlay networks

draft-rabadan-bess-dci-evpn-overlay-00*

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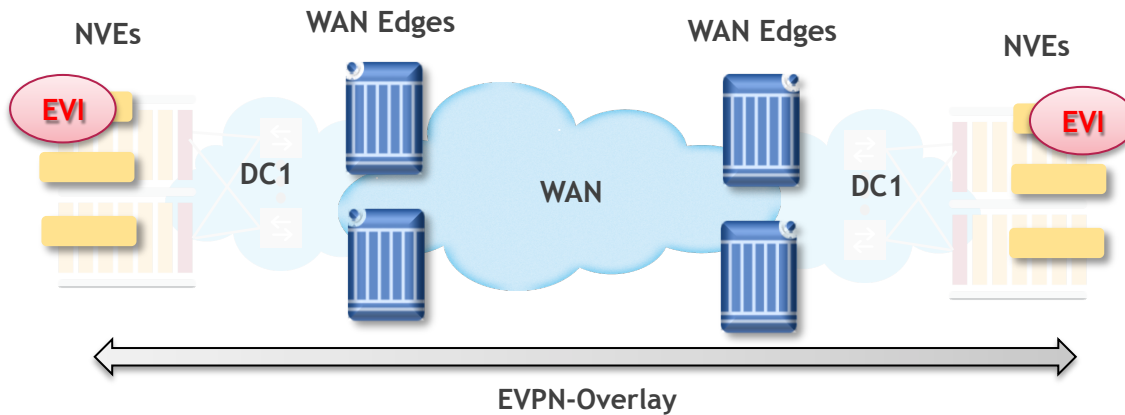
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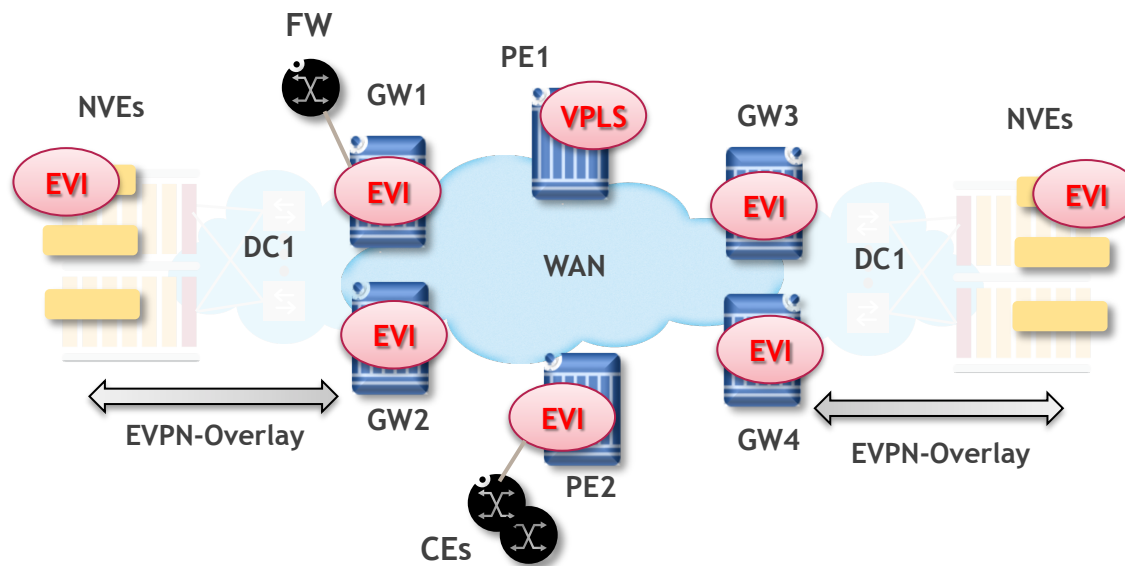
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(*) Previous rev: draft-rabadan-l2vpn-dci-evpn-overlay-01

How to interconnect EVPN-overlay networks

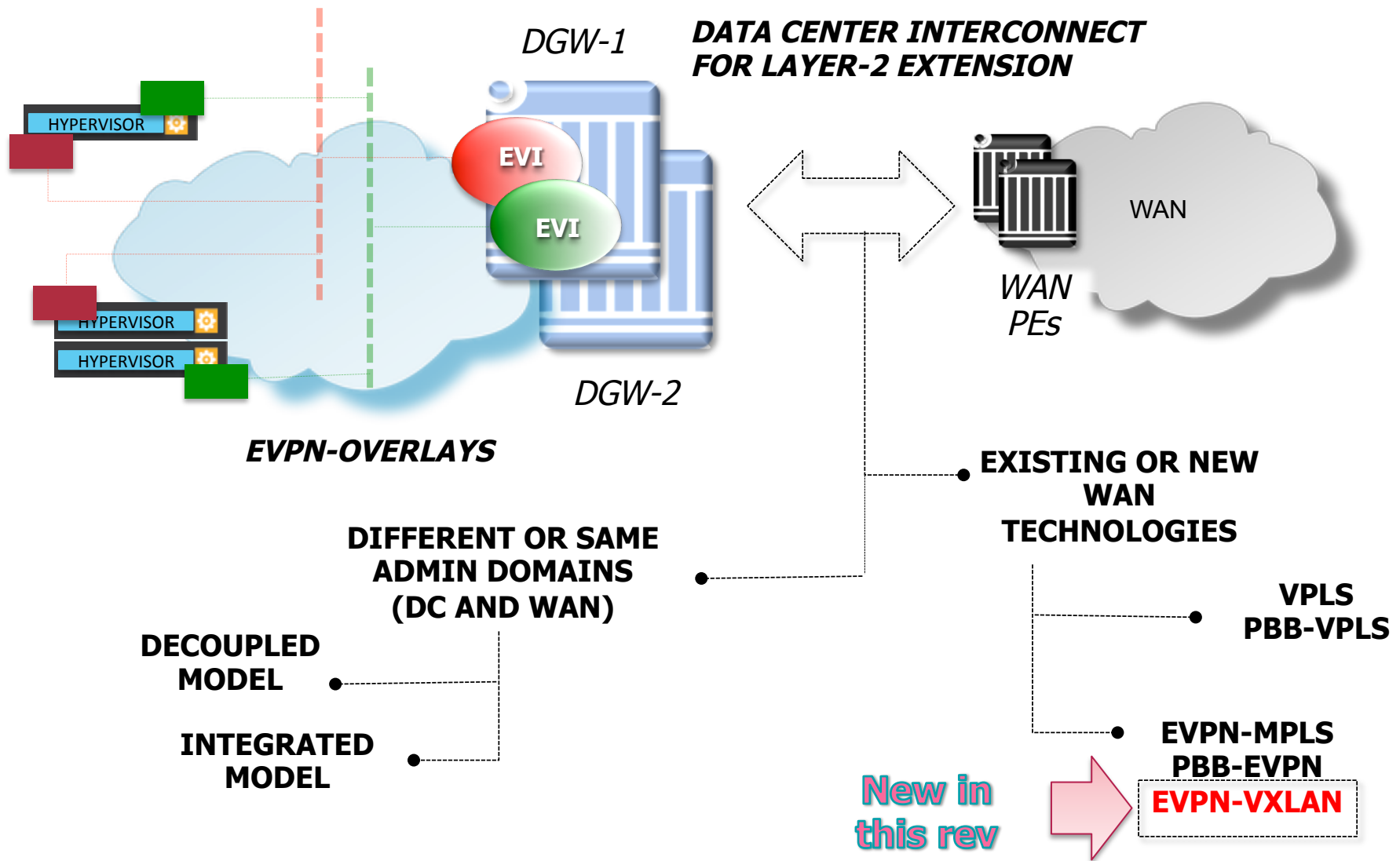


- Interconnect without a GW
draft-sd-l2vpn-evpn-overlay
- No MAC-VRF instance on WAN Edges
- WAN Edges act as ASBRs, with VNIDs used as local significant values

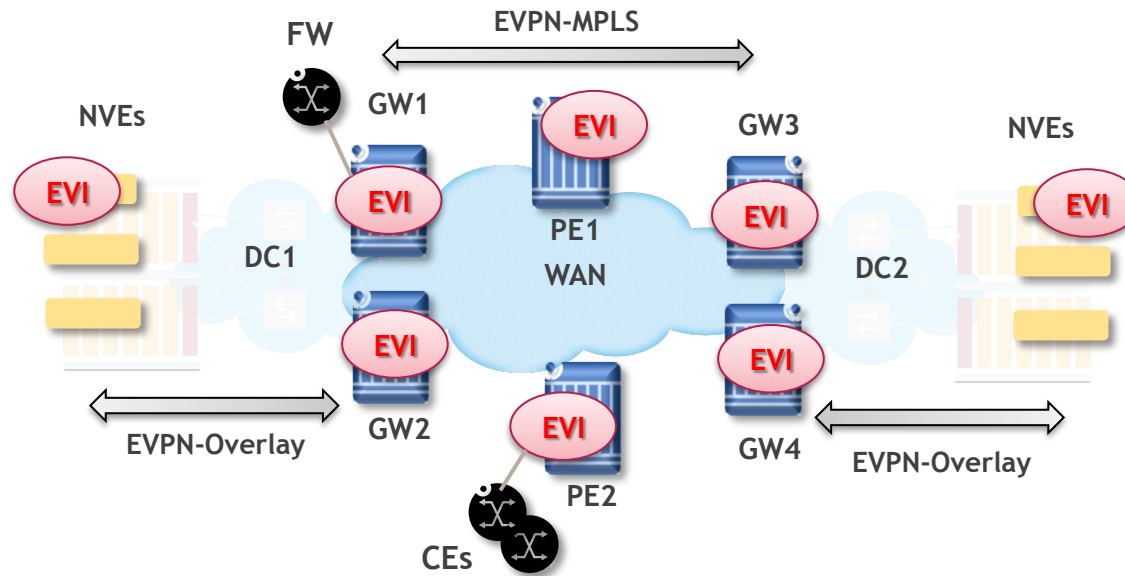


- Interconnect with a GW
draft-rabadan-bess-dci-evpn-overlay
- MAC-VRF instance on GWs to provide an interconnect to heterogeneous WAN networks
- GW can use VNIDs as local or global values
- Protects/isolates the Overlay network

Interconnect solution in dci-evpn-overlay



Interconnect example: EVPN-Overlay to EVPN-MPLS



- EVPN RT-1, 3 and 4 routes are consumed and not re-exported on GWs
- EVPN RT-2 routes are installed and re-exported with new RD/route-target/encap and aggregated label/VNI
- Multi-homing (single-active and all-active) is supported
 - An I-ESI (Interconnect ESI) is defined
 - No need for ESI labels for the I-ESI
- Local ACs are supported (multi-homing is supported too)
- GW optimizations protect/isolate the DC

Next steps

- The authors would like to request WG adoption

THANKS!