draft-sd-l2vpn-evpn-overlay-02.txt

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Changes since Rev01

- Added a new section on auto-derivation of RT & RD
- Added a new section for scenarios with mixed of data-plane-learning NVEs and control-planelearning NVEs

DCI Scenario

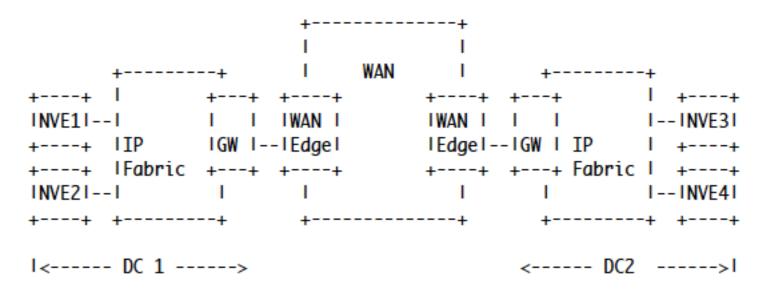


Figure 1: Data Center Interconnect with Gateway

VNI – EVI Relationship

- One VNI per EVI
 - Better control of BGP route distribution
- Multiple VNIs per EVI
 - Less provisioning of RTs & RDs

 => If we can auto-derive the RT & RD for 1st bullet, then it is preferred over 2nd bullet

RT & RD Auto Derivation

- RD is auto-derive per EVPN baseline draft
- RT is auto-derive as follow similar to section
 9.4.1.1.1 of baseline EVPN
 - Global admin field of RT is set to the AS number of PE
 - Three least significant bytes of the local admin field of the RT is set to the VNI or VSID, I-SID, or VID.

RT & RD Auto Derivation – Cont.

- The most significant bit of the local admin field of the RT is set as follow:
 - 0: auto-derived
 - 1: manually-derived

RT & RD Auto Derivation – Cont.

- The remaining 7 bits of the most significant byte of local admin field, identifies the space in which the other 3 bytes are defined:
 - 0: EVI
 - 1: VxLAN
 - 2: NVGRE
 - 3: I-SID
 - 4: VID

Next Step

It is ready for WG call