

draft-sd-l2vpn-evpn-overlay-01.txt

A. Sajassi (Cisco), J. Drake (Juniper), N. Bitar (Verizon), A. Issac (Bloomberg), J. Uttaro (ATT), W. Henderickx (ALU), Y. Rekhter (Juniper), R. Shekhar (Juniper), B. Schliesser, S. Boutros (Cisco), K. Patel (Cisco), S. Salam (Cisco), D. Rao (Cisco), L. Yong (Huawei)

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History

- Presented draft-sajassi-l2vpn-evpn-overlay-00 in IETF 85
- Merged with draft-drake-nvo3-evpn-control-plane-00
- Resultant draft was published in December
 - draft-sajassi-drake-l2vpn-evpn-overlay-00
- Changed the name to adhere to the naming convention
 - draft-sd-l2vpn-evpn-overlay-01

The merged draft covers

- Ethernet over MPLS (MPLS & MPLS over IP)
- Ethernet over IP (VXLAN & NVGRE)
- Multi-homing capability native to IP
- Functionality needed for NVE residing
 - In TOR
 - In Hypervisor

Changes since initial merge

- Added a new section to further clarify the need for global versus local VNI scope
- Added a new section for VNI to EVI mapping

Global VNI Scenario

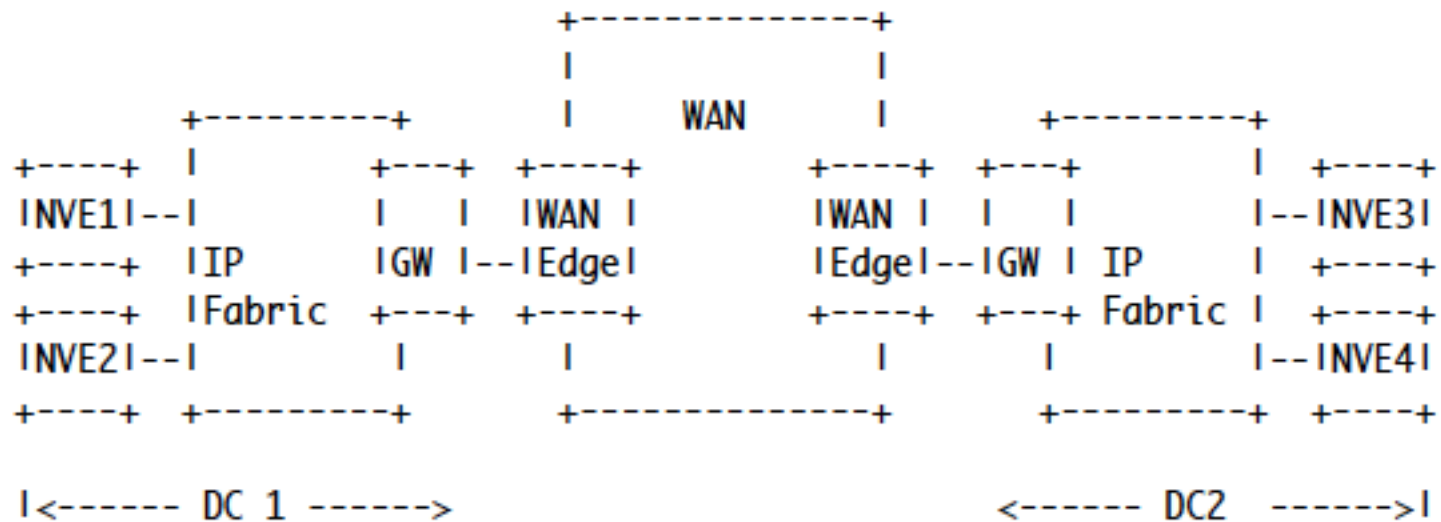


Figure 1: Data Center Interconnect with Gateway

Local VNI Scenario

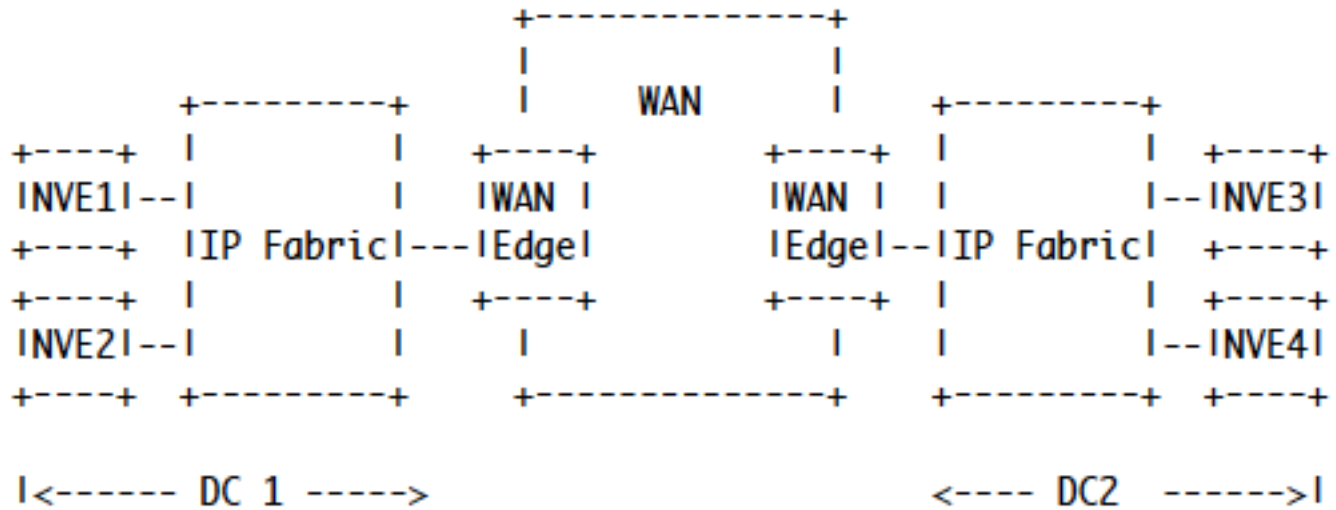


Figure 2: Data Center Interconnect without Gateway

VNI to EVI Mapping: Single VNI per EVI

- A single VNI of a given tenant is mapped to an EVI
- Pros
 - RT constrain can be applied on a per VNI basis to distribute routes to VTEPs interested in a particular VNI
- Cons
 - Additional over head in provisioning

Multiple VNIs per EVI

- All VNIs of a given tenant can be mapped to a single EVI
- Pros
 - No provisioning on a per VNI basis
- Cons
 - Route are distributed to all VTEPs participating in one or more VNI for that tenant

Next Step

- Solicit more input from WG