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

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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