

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

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# Changes since Rev01

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- 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-plane-learning NVEs



# VNI – EVI Relationship

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- 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 1<sup>st</sup> bullet, then it is preferred over 2<sup>nd</sup> bullet

# RT & RD Auto Derivation

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- 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.

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- 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.

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- 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

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- It is ready for WG call