

Virtual Hub-and-Spoke in BGP EVPNs

draft-keyupate-bess-evpn-virtual-hub-01.txt

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History

- Presented at IETF 94, November 2015
- Updated the draft with BUM procedures and presented it at IETF 98, March 2017

Background

- The draft optimizes route learning in DC leaf nodes (spokes) where
 - Leaf nodes learn and store routes (MAC and IP addresses) for local sites only
 - Leaf nodes do not store routes advertised by other Leaf nodes residing in the same DC

Changes for rev01

- Rev00 used only local-bias method similar to evpn-overlay for split-horizon filtering of BUM traffic
- In order to identify source spoke in the local-bias mechanism for MPLS, the document proposed the use of PE Distinguisher (PED) label
- Rev01 extends source spoke identification for BUM traffic by a second method of using Domain-wide Common Block (DCB) label
- DCB is a basically a network (domain) wide static label assigned by a central management/controller entity – similar to VNI

Next Step

- The draft has been around for a few years and has been baked
- It is ready for WG call