

draft-sajassi-bess-evpn-l3vpn- multihoming-01.txt

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Reference Figure

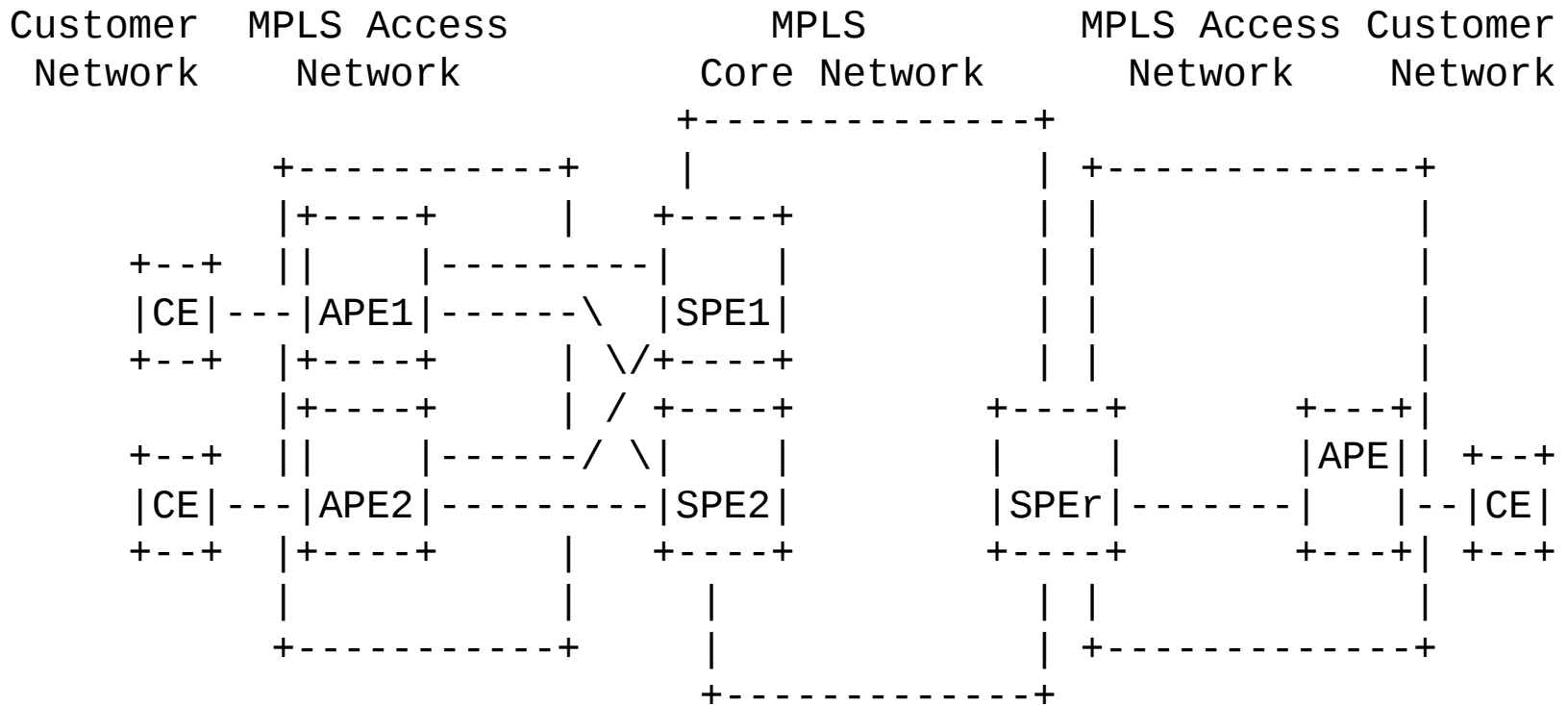


Figure 1: Network Topology

Rev 00

- Wanted to cover a single eBGP session from a CE to a group of PEs running in Single-Active mode
- CE is connected to the PE redundancy group over MPLS access using Active/Standby PWs
- Solution consisted of four steps:
 - Synching host prefixes/routes learned over eBGP session among PEs that are member of the redundancy group
 - Synching ARP table (for CEs) among PEs that are member of the redundancy group
 - Fast convergence on remote PE upon primary PW/PE failure

Changes from Rev 00

- Base mechanism remains the same as before – the four steps in the solution are the same as before
- CE is connected to the PE redundancy group over MPLS access using **Single-Active EVPN-VPWS**
- **Using EVPN-VPWS gives additional benefit of single-side signaling and provisioning (service-edge-gateway draft)**

Other things to be covered

- The following items will be covered in rev 02
 - IP access network
 - All-Active Multi-homing
 - Interop with IP-VPN PEs – e.g., only PEs in the redundancy group are EVPN and all other PEs are IP-VPNs

Next Step

- Questions ?