To Refresh our Memory:
Three E-TREE Scenarios of Interest

1. Leaf OR Root site(s) per PE
2. Leaf AND Root site(s) per PE
3. Leaf AND Root site(s) per Ethernet Segment
Scenario-1: Leaf or Root per VPN per PE

- This scenario can be addressed by using RT to constrain topology
- This requires two RTs per VPN
Scenario-2: Leaf AND Root site(s) per PE

In this scenario an AC (Ethernet Site) can be either root OR leaf (but not both)
• The packets originated from a site, will need to carry site’s roof or leaf indication (e.g., policy needs to be applied per site basis)
• Egress PE must use the root/leaf indication in the packet to perform appropriate filtering

⇒ This scenario in E-VPN is addressed by using per-AC (per-site) policy
Scenario-3: Leaf AND Root site(s) per ES

In this scenario an AC (Ethernet Site) can be both root AND leaf
• Each packet originated from a site, will need to carry site’s root or leaf indication (e.g., policy needs to be applied per MAC address basis)
• Egress PE must use the root/leaf indication in the packet to perform appropriate filtering

→ This scenario in E-VPN is addressed by using per-MAC policy
Changes in Rev01

- Consolidated the operations for all three E-TREE scenarios into a single section
- Replaced the new Extended Community BGP Attribute (EVI-Import) with RT
Discussions on the mailing list

- Many exchanges on the mailing list – both public and private

- Public: Application of Split-Horizon filtering capability of EVPN for E-TREE application was not clear to some

- Private: Some argue that we should NOT mandate the use of SH filtering for all scenarios
Action Items for Rev02

- Clarify that egress filtering operation needed for E-TREE is the same as provided by SH filtering of E-VPN
  
  - Clarify SH filtering for BUM messages are identical to that of E-VPN
  
  - Clarify SH filtering for known unicast frames is similar to that of ingress replication (with downstream assigned MPLS SH label)

- Described the operation for each scenario separately (as done in Rev00)
  
  - For scenario-1, the use of SH filtering should not be mandated
Next Step

- Publish Rev02 incorporating the above AIs
- Solicit more comments on the mailing list