draft-mackenzie-bess-evpn-l3mh-proto-03

EVPN Multi-homing for L3 services

IETF-118
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Problem Statement

1- Unicast load-balancing from core to CE
   “ARP/ND adjacency on single PE base on CE hashing”

2- Multicast load-balancing from core to CE
   “IGMP/MLD join/leave on single PE base on CE hashing”

3- IGP adjacencies over LAG port
   “Adjacency formed to one PE, IGP routes on that PE only”

4- Multiple subnets on same ES
   “Support of multiple VLAN and VRF”
Solution

Table synchronization:
ARP/ND, IGMP/MLD, IGP tables using RT-2, RT5, RT-7 and RT-8

Where:
- L3 route targets represents IP VRF
- ESI represents L3 Interface
- Attachment circuit ID represents subnet/VLAN/sub-interface

with few more options

- L3 interface
- Bundle interface
Advantages

• No more dedicated ICCP channel, no more need for ICL link
• Underlay agnostic
• Fast convergence
• Leveraging existing EVPN signaling capability
Next Step

Solution is already deployed since many years.

Draft is multi-vendors

** asking for Workgroup adoption **