AWARE TC BPDU ON RBRIDGE

draft-yizhou-trill-tc-awareness-01

Update

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**Background – Two approaches to interconnect STP and trill domain**

**Method 1 (AF approach):**
- RB does not participate in spanning tree calculation.
- Achieve VLAN splitting on VLANs

**Method 2 (Ethernet LAN Partition approach):**
- RB1 & RB2 pretend to be single STP root
- Make Ethernet LAN domain partitioned
- Achieve per-vlan load balancing. AF & its inhibition timer no longer necessary
Problems with Ethernet LAN
Partition approach

Problem to remote: Remote RBs have stale MAC-nickname correspondence entries when local topology changes.

Problem to local: Topology change in one partition is not known by other partitions. Cause stale MAC entries in LAN bridges in other partitions.
Use RBridge channel to tunnel TC BPDU and carry purge mesg

Solution to remote problem: Multicast some purge info to remote RB to clear (any_mac, nicknames, optionally VLANs)

Solution to local problem: unicast TC BPDU to other members in the same root bridge group
Changes since 00

- **Root bridge group:**
  - Allow static configuration
  - If more than 2 RBs in a group: sequential unicast TC

- **Temporary TRILL campus splitting**
  - Make sure destination RB should be reachable via TRILL campus
  - Not function for transition period

- Enhanced text for TLV field description
Next Step

- More comments welcome
- Move to WG draft