Adaptive VLAN Assignment for Data Center RBridges

draft-zhang-trill-vlan-assign-02

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Multi-access Link

• Several RBridges can forward frames simultaneously for a multi-access link.

• It offers high east-west capacity to RBridge campus.
Imbalanced MAC Tables

Balanced #VLAN doesn’t mean balanced MAC entries. The MAC table of RB1 is longer than that of RB2.
Imbalanced Traffic Load

Balanced #VLAN doesn’t mean balanced traffic load
The traffic load going through RB1 is heavier than that of RB2
AF Feedbacks to DRB

• All appointed forwarders advertise the usage of MAC table and bandwidth in LSPs to their DRBs.

• The usage of the MAC table and the utilization of bandwidth of this appointed forwarder is calculated on the DRB.
Adaptive Assignment

• The DRB can choose an appointed forwarder for the local link based on Least Usage/Utilization First (LUF) policy.

• The feedback can be stored in the MIB. Operators can therefore easily pinpoint the hot spots of TRILL edge.
Thanks!