Remote MAC Address Flush

draft-hao-trill-address-flush-00.txt

Weiguoh Hao haoweiguo@huawei.com
Donald Eastlake d3e3e3@gmail.com
Huawei Technologies
TRILL Address Learning

- As listed in [RFC6325] Section 4.8.1, R Bridges can learn MAC address to R Bridge nickname mappings in 5 ways:
  - Data plane learning on ingress (1) and egress (2)
  - ESADI [RFC7357] (3) (data label constrained link-state flooding)
  - Layer 2 registration protocols (4) (such as Wi-Fi Association)
  - Manual configuration (5)
TRILL Address Forgetting

- Data plane learning on ingress (1) and egress (2)
  - Based on time outs. Can lead to black holes.

- ESADI [RFC7357] (3) (data label constrained link-state flooding)
  - Flood updated information.

- Layer 2 registration protocols (4) (such as Wi-Fi Association)
  - Unregister.

- Manual configuration (5)
  - Change the configuration.
Proposal

• Specify an RBridge Channel protocol message to flush \{ MAC address, Data Label, RBridge nickname \} tuples that have been learned from the data plan.

• Send by the RBridge where that MAC address is attached because it has better local knowledge.

• Variations:
  – Flush a single entry
  – Flush entries for a Data Label
  – Flush entries for a set of Data Labels: All, Range, Bit Map, or List
Next Steps

• Please look at the draft.
• This is an early draft.
• There might be substantial changes...

• One round of revision, then call for WG adoption.
Weiguo Hao  haoweiguo@huawei.com
Donald Eastlake  d3e3e3@gmail.com
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