# Remote MAC Address Flush
## draft-hao-trill-address-flush-00.txt

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# TRILL Address <u>Learning</u>

- As listed in [RFC6325] Section 4.8.1, RBridges can **learn** MAC address to RBridge 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 <u>Forgetting</u>

- 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.

# END

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