TRILL: ESADI Protocol
draft-hu-trill-rbridge-esadi-03.txt

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TRILL: ESADI

• improve the robust and reliability of TRILL protocol
  – MAC address reachability information and ESADI parameters are carried in ESADI frames rather than in the TRILL IS-IS protocol
  – End station attachment information is not flooded to all RBridges through TRILL IS-IS but only to ESADI RBridges

• Improve the ESADI protocol
  – ESADI DRB state
  – Multicast storm avoiding
  – EADI Parameter appsub-TLV
ESADI DRB

- ESADI DRB: multicasts ESADI CSNP periodically to keep the LSDB synchronized among the virtual link.

- ESADI DRB Election:
  - Candidates: Data and ISIS reachable, participating in ESADI by announcing in their ISIS LSP, having the entry of ESADI-LSP number zero with an ESADI Parameters APPsub-TLV.
  - According to the ESADI Parameter 7-bit priority field, and ties broken by System ID (the larger, the higher priority).
Multicast Storm avoiding

• Change multicast frame to unicast frame in some situation
  – Waiting for a interval time before sending LSP to a new neighbor
  – Receiving an old ESADI-LSP, unicast the local LSP entry to the sender

• All the ESADI RBridges only send their self-originated LSPs
ESADI PDU

• ESADI PDU: level 1 EASDI-LSP, EASDI-CSNP and EASDI-PSNP PDUs
• No hello or MTU PDU: does not build topology and does not do any routing
• ESADI LSP:
  – ESADI parameter APPsub-TLV
  – MAC Reachability TLV (specified in RFC6165)
Next Steps

• Feedback and comments
• WG Adoption
END