RIFT: Routing in Fat Trees

draft-ietf-rift-rift-19

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Tony Przygienda
Alankar Sharma
Pascal Thubert
Bruno Rijsman
Dmitry Afanasiev
Jordan Head (presenting)
What’s new in version 19?

• **New Key-Value schema elements**
  - Now includes new Key-Value requirements (e.g. Key Target).
    - Actual functionality described in Key-Value draft.
  - Thrift schema bumped to 7.0

• **Normative changes**
  - “*Any attempt to transition from a state towards another on reception of an event where no action is specified MUST be considered an unrecoverable error, i.e. the protocol MUST reset all adjacencies and discard all the state.*”
  - “…if a link has entered ThreeWay IPv4 and/or IPv6 with a neighbor on an adjacency and it wants to stop supporting one of the families or change any of its local addresses or stop IPv4 forwarding, it **MUST** tear down and rebuild the adjacency. It **MUST** also remove any state it stored about the remote side of the adjacency such as associated LIE source addresses.”
What’s new in version 19?

• Security Considerations
  • New subsection to address the TTL/HL of 1 vs. 255. Basically, we say:
    • Using 255 is covered by RFC5082 but may still have misprocessing concerns, loops in the
      forwarding plane, etc.
    • Using 1 does allow for the possibility of multi-hop spoofing, but it’s extremely hard to engineer an
      attack. Replays are also still possible, but RIFT is already protected via security envelope, etc.

• Editorial fixes
  • Clarified difficult to parse text
  • Converged language on ToF vs. Top-of-Fabric
  • Reference updates
What’s next?

• Continuing to work through AD review process.
  
  • Jim has effectively finished his review.

  • Other 2 RTG ADs will complete their review before IETF last call.
Thanks