RIFT: Routing in Fat Trees
draft-ietf-rift-rift-19

IETF 118

Prague

Tony Przygienda

Alankar Sharma

Pascal Thubert

Bruno Rijsman

Dmitry Afanasiev

Jordan Head (presenting)

Non-Juniper

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