PROPOSED CHANGES TO TRILL CHARTER

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Current Charter
Enumerated Work Items

1. Standardize OAM
2. Active-Active at the TRILL edge
4. TRILL over Pseudowires and TRILL over IP
5. Multi-level and Multi-topology
6. Reduced Control Plane Protocol
7. Security Analysis
8. Interoperability / Implementation Report
Work Items Status

1. Standardize OAM – Completed *(except for YANG)*
   - RFCs 6905, 7174, 7455, 7456, 7784

2. Active-Active at the TRILL edge – Almost Completed
   - RFCs 7379, 7781, 7782, 7783 (one WG draft in process: draft-ietf-trill-centralized-replication-6.txt)

   - RFC 7961 Published (data structures)
   - RFC 7978 Published (security support)
   - ARP Reduction draft returned by IESG, in 2nd WG LC
   - Directory Mechanisms almost ready for WG LC
Work Items Status

4. TRILL over Pseudowires and TRILL over IP
   - Pseudowires complete: RFC 7173
   - IP in WG LC: draft-ietf-trill-over-ip-08.txt

5. Multi-level and Multi-topology
   - Informational multilevel alternatives draft Publication Requested
   - All other draft adopted by WG

6. Inter-Campus Reduced Control Plane Protocol – Pending
Work Items Status

7. Security Analysis
   – In discussion, it was concluded that security is always in scope and should not be a separate work item

8. Interoperability / Implementation Report – Being Moved to WG Wiki
Proposed Changes

• Drop completed WG items.

• Add new WG items:
  – Add ECN Support
  – Transparent Mode
    • Reduced coupling between TRILL and attached networks at the edge.
  – Add small content type field to header
    • Can be done safely using critical bits in header that existing silicon will trap
  – Traffic Engineering
    • Better SDN support
New WG Work Items List

• WG Item list, new items underlined:
  • (1) Specify extensions to the TRILL protocol to support multi-level routing to improve scaling and multi-topology routing to provide different topologies for different classes or types of traffic, based on existing IS-IS multi-level and multi-topology routing facilities.
  • (2) Add ECN support to TRILL (draft-ietf-trill-ecn-support)
  • (3) Specify extensions to the TRILL protocol to support more transparent connection at the TRILL edge. For example a TRILL port mode that included transparency to BPDUs (Bridging PDUs) rather than parsing and terminating them.
  • (4) Specify extensions to the TRILL protocol to support more transparent modes of operation such as tunneling bridging protocol messages rather than parsing and terminating them.
New WG Work Items List

• WG Item list (continued):
  • (5) Specify extensions to the TRILL protocol to support payload types such as IP.
  • (6) Specify a reduced TRILL control plane protocol for interconnection, with improved error isolation and statistics collection, between TRILL campuses under coordinated management.
  • (7) Specify extensions to the TRILL protocol to support Traffic Engineering based on TRILL IS-IS.
Name Change

Acronym change causes problems so we don’t want to change that.

Possible Changes:
Current: **TR**ansparent **I**nterconnection of **L**ots of **L**inks

Possible: **T**unneled **R**outing **IN** the **L**ink **L**ayer
**T**unneled **R**outing of **I**S-**I**S at **L**ink **L**ayer
**T**ransparent **R**outing of **I**S-**I**S at **L**ink **L**ayer
Next Step

• Post revised Charter and a revised (augmented) milestone list to the mailing list and ask WG opinion
END

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