

PROPOSED CHANGES to TRILL CHARTER

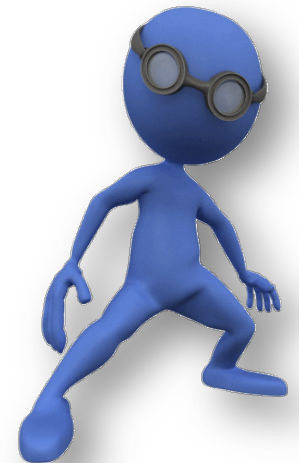
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Current Charter

Enumerated Work Items

1. *Standardize OAM*
2. *Active-Active at the TRILL edge*
3. *Multi-destination frame reduction / Directory*
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)
3. Multi-destination frame reduction / Directory
 - 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

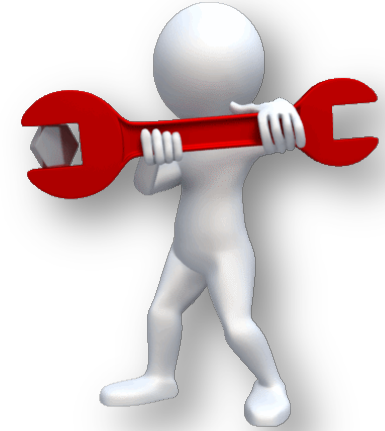
7. Security Analysis

- 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*



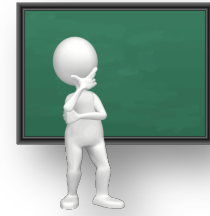
New WG Work Items List

- 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: TRansparent Interconnection of Lots of Links

Possible: Tunneled Routing In the Link Layer
Tunneled Routing of IS-IS at Link Layer
Transparent Routing of IS-IS at Link Layer

Next Step

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

END

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