TRILL Working Group

TRansparent Interconnection of Lots of Links

Mailing list address: trill@ietf.org
Tools site: http://tools.ietf.org/wg/trill/

Co-Chair: Sue Hares (Hickory Hill Consulting)  shares@ndzh.com
Co-Chair: Jon Hudson (Brocade)  jon.hudson@gmail.com
   Secretary: Donald Eastlake, 3rd (Huawei)  d3e3e3@gmail.com

Area Director:  Alia Atlas (Juniper)
Note Well!

• Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:
  - The IETF plenary session; The IESG, or any member thereof on behalf of the IESG
  - Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
  - Any IETF working group or portion thereof; Any Birds of a Feather (BOF) session
  - The IAB or any member thereof on behalf of the IAB; The RFC Editor or the Internet-Drafts function

• All IETF Contributions are subject to the rules of RFC 5378 and RFC 3979 (updated by RFC 4879).

• Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult RFC 5378 and RFC 3979 for details.

• A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.

• A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.
Agenda (1/3)

Pacifico Yokohama, Yokohama, Japan
Tuesday, November 3, 2015
15:20 – 16:50 Room 411/412

- 5 min. Administrativia (scribes), Agenda Bashing, Chairs
- 10 min. Status, Review of Milestones, Chairs
- 10 min. Directory Assisted Edge Status,
  Donald Eastlake, Linda Dunbar
  draft-ietf-trill-directory-assist-mechanisms-03
draft-ietf-trill-ia-appsubtlv-05
draft-ietf-trill-directory-assisted-encap-01
draft-ietf-trill-arp-optimization-01
- 15 min. Smart End Nodes, Fangwei Hu
draft-ietf-trill-smart-endnodes-02
Agenda (2/3)

- Tuesday TRILL WG Agenda Continued
  - 20 min. DCI using TRILL
    Kingston Smiler, Mohammed Umair, Shaji Nathan
draft-muks-trill-dci-00
draft-muks-trill-transport-over-mpls-00
  - 15 min. TRILL over IP, Margaret Cullen, Dachang Zhang
    Donald Eastlake, Mingui Zhang
draft-ietf-trill-over-ip-05
  - 10 min. TRILL ECN Proposal, Donald Eastlake
Agenda (3/3)

- **Thursday, November 5, 2015**
  17:40 – 18:40 Room 303
  - 15 min. Link Security
    Donald Eastlake, Dacheng Zhang
    draft-eastlake-trill-link-security-02
  - 15 min. Multi-Topology / Multi-Level TRILL
    Mingui Zhang, Donald Eastlake, Radia Perlman
    draft-ietf-trill-rbridge-multilevel-00
    draft-ietf-trill-multilevel-single-nickname-00
    draft-ietf-trill-multi-topology-00
  - 15 min. Remote MAC Address Flush
    Weiguo Hao, Donald Eastlake
    draft-hao-trill-address-flush-00
  - 5 min. Wrap-Up, Chairs
Document Status

TRILL Standards Track Mandatory RFCs
(These RFCs contain a mix of mandatory and optional specifications)

• RFC 6325, “RBrigdes: Base Protocol Specification”
• RFC 6439, “RBrigdes: Appointed Forwarders
• RFC 7176, “TRILL: Use of IS-IS”
• RFC 7177, “TRILL: Adjacency”
• RFC 7180, “TRILL: Clarifications, Corrections, and Updates”

TRILL Standards Track Link Technology RFCs
(see RFC 6325 for Ethernet)

• RFC 6361, “PPP TRILL Protocol Control Protocol”
• RFC 7173, “TRILL: Transport Using Pseudowires”
Document Status

TRILL Standards Track Optional RFCs

• RFC 6850, “Definitions of Managed Objects for RBriges”
• RFC 7172, “TRILL: Fine Grained Labeling”
• RFC 7175, “TRILL: BFD Support”
• RFC 7178, “TRILL: RBridge Channel Support.”
• RFC 7179, “TRILL: Header Extension”
• RFC 7357, “TRILL: ESADI”
• RFC 7455, “TRILL: Fault Management”
• RFC 7456, “Loss and Delay Measurement in TRILL”
Document Status

TRILL Informational RFCs

- RFC 5556, “TRILL: Problem and Applicability Statement”
- RFC 6847, “FCoE over TRILL”
- RFC 6905, “Requirements for OAM in TRILL”
- RFC 7067, “Directory Assistance Problem and High-Level Design Proposal”
- RFC 7174, “TRILL: OAM Framework”
- RFC 7379, “Problem Statement and Goals for Active-Active at the TRILL Edge”
Document Status

• In the RFC Editor’s Queue:
  - draft-ietf-trill-aa-multi-attach-06.txt
  - draft-ietf-trill-cmt-11.txt
  - draft-ietf-trill-oam-mib-11.txt
  - draft-ietf-trill-pseudonode-nickname-07.txt
  - draft-ietf-trill-rfc7180bis-07.txt
Document Status

• Passed WG Last Call:
  - draft-ietf-trill-channel-tunnel-06.txt
  - draft-ietf-trill-directory-assist-mechanisms-03.txt
  - draft-ietf-trill-ia-appsubtlv-05.txt
  - draft-ietf-trill-irb-06.txt
  - draft-ietf-trill-tree-selection-01.txt
Document Status

• Other TRILL WG Drafts
  - draft-ietf-trill-arp-optimization-00.txt
  - draft-ietf-trill-centralized-replication-02.txt
  - draft-ietf-trill-mtu-negotiation-00.txt
  - draft-ietf-trill-multi-topology-00.txt
  - draft-ietf-trill-multilevel-single-nickname-00.txt
  - draft-ietf-trill-over-ip-04.txt
  - draft-ietf-trill-p2mp-bfd-00.txt
  - draft-ietf-trill-rbridge-multilevel-00.txt
  - draft-ietf-trill-resilient-trees-03.txt
  - draft-ietf-trill-smart-endnodes-01.txt
  - draft-ietf-trill-yang-03.txt
  - draft-ietf-trill-yang-oam-03.txt
  - draft-ietf-trill-yang-pm-02.txt
Document Status

• Related Drafts in Other WGs
  – IDR WG: draft-ietf-idr-ls-trill-00.txt

• In Call for TRILL WG Adoption
  – draft-eastlake-trill-rfc6439bis-01.txt

November 2015
IETF TRILL WG
12
Major Efforts

The current major (multi-document) specification efforts in the TRILL WG are as follows:

- Active-Active – Problem statement RFC 7379 published. 3 standards drafts approved by IESG and 2 in RFC Ed’s queue (trill-cmt, trill-pseudonode-nickname, trill-aa-multi-attach)
- Directory Assist / ARP&ND Optimization – Problem statement RFC 7067 published. Base standards drafts passed WG Last Call (trill-directory-assist-mechanisms, trill-ia-appsubtlv)
Overdue and Future Milestones

• Overdue Milestones
  - Dec 2014  Submit TRILL-over-IP to IESG for Proposed Standard
  - Apr 2015  Submit ARP/ND Optimization to IESG as Proposed Standard
  - Apr 2015  Initial WG draft on TRILL Implementation
  - May 2015  Submit Multilevel TRILL to IESG for Proposed Standard
  - Jun 2015  Initial WG draft on TRILL IS-IS Security
  - Aug 2015  Submit Multi-topology to IESG as Proposed Standard

• Future Milestones
  - Dec 2015  Submit RBridge support of DCB (PFC, ETS, CN) to IESG as Proposed Standard
  - Aug 2016  Re-charter or shut down the WG
Suggested Updated Milestones

- **Suggested Updated Milestones** (blue = new)
  - Dec 2015 Submit TRILL-over-IP to IESG for Proposed Standard
  - Dec 2015 Submit Directory Assistance Mechanisms to IESG for Proposed Standard
  - Jan 2016 Submit ARP/ND Optimization to IESG as Proposed Standard
  - Feb 2016 Submit Multilevel TRILL Informational draft to IESG for Proposed Standard
  - Mar 2016 Submit Multi-topology to IESG as Proposed Standard
  - Apr 2016 Initial WG draft on TRILL Implementation
  - May 2016 Initial WG draft on TRILL IS-IS Security
  - May 2016 Submit Multi-level to IESG as Proposed Standard
  - Nov 2016 Submit RBridge support of DCB (PFC, ETS, CN) to IESG as Proposed Standard
  - Jul 2017 Re-charter or shut down the WG