

Update to TRILL use of IS-IS draft-eastlake-isis-rfc6326bis-01

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RFC6326bis Draft

- Intended to Obsolete the current RFC 6326.
- Includes an accumulation of additions to support the continued development of the TRILL protocol since it was approved as a standard in March 2010.
- Currently targeted for the IETF ISIS WG since RFC 6326 was an ISIS WG document.
- Some existing formats are extended but in a backward compatible way.

Summary of the Update

1. Add sub-TLVs under the GADDR TLV for IPv4 and IPv6 multicast groups specified by IP address.
2. Add capability for an RBridge to unambiguously report in the Designated VLAN the VLANs for which it is Appointed Forwarder to support optional reducing in the VLANs on which TRILL Hellos are sent.
3. Add versions of sub-TLVs currently providing a 12-bit VLAN ID to provide for a 24-bit fine grained label.
4. Extends capability reporting via TRILL-VER, PORT-TRILL-VER, and RBCHANNELS sub-TLVs.
5. Extends TRILL Neighbor TLV to provide support for SNPA sizes other than 6 bytes in support of TRILL over IP.

Summary of the Update

6. Robustness improvements:
 - Require LSP number zero be no larger than 1470 bytes (but processed normally if received larger).
 - Require TRILL-VER and originatingLSPBufferSize be in LSP number zero.
7. Clarify meaning of illegal VLAN IDs in the Interested VLAN sub-TLV including ability to designate a nickname to be used in traffic engineering.
8. Other minor changes including fixing the one Errata against RFC 6326: The TLV # for the TRILL Neighbor TLV is correctly listed as 142 in all but one erroneous instance where it is listed as 10 (which is the Authentication TLV).
 - See Section 7 of the draft for a complete list.

END

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