RFC 7180bis: Further TRILL Clarifications, Corrections, and Updates

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- RFC 7180
  <u>TRILL: Clarifications, Corrections, and Updates</u>,
  covers a variety of topics; however, because of RFC
  publishing delays due to normative dependencies, it
  was already a bit out of date when it was published.

- At some point we may wish to revise the base
  protocol specification, RFC 6325, but for now, I
  believe an rfc7180bis document is the way to go.

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- The remainder of this presentation lists
  - Topics I think should be added
  - Topics I think should be deleted
  - Topics I think should retained

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- Material I think should be <u>added</u>:
  - Add support for E-L1FS extended level 1 LSP/CSNP/PSNPs. Increases number of fragments and maximum TLV size from 2**8 to 2**16. See draft-ietf-isis-fs-lsp.
    - Each future specific use would be required to address backwards compatibility.
  - Advice to silently ignore unknown TRILL IS-IS PDUs.
    - The universe of IS-IS PDUs used to be very stable but TRILL added MTU-probe and MTU-ack while draft-ietf-isis-fs-lsp is adding Flooding Scope versions of LSP, CSNP, and PSNP.

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- More material I think should be <u>added</u>:
  - Optional alternative Reverse Path Forwarding Check as discussed on the mailing list. See http://www.ietf.org/mail-archive/web/trill/current/msg01852.html and subsequent messages.
  - Deprecate extending the TRILL Header beyond the one word extension in RFC 7179. Make all but the lowest bit of the Op-Length field in the TRILL Header Reserved.

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- More material I think should be <u>added</u>:
  - Generally provide addition details where questions have arisen. For example, there was a discussion on the mailing list about the Appointed Forwarder Status Lost Counter, and whether you need to pay attention to it, that would be more accessible if put in an RFC.

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- Material to be removed:
  - Changes to Adjacency RFC 6327. These were rolled into Adjacency RFC 7177 which obsoleted RFC 6327 and so can be removed from an rfc7180bis.
  - Changes to Appointed Forwarder RFC 6439. This material should be moved into an rfc6439bis or all that material should be rolled into an rfc6235bis effort.

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- Other material from RFC 7180 would be <u>retained</u> in rfc7180bis with any minor updates that are warranted.