

MMF ad hoc report

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MMF ad hoc activity since January 2014 meeting

- Five MMF ad hoc calls: Jan 30th, Feb 6th, 13th, 20th, 25th, 2014.
 - Meeting minutes and presented materials are available on the 40G & 100G FOTF website: <http://www.ieee802.org/3/bm/public/mmfadhoc/index.html>
- Highlights: 9 presentations reviewed
 - 5 addressed the transmitter quality tests, TxVEC and/or TDP, with support for and against replacing TDP with TxVEC. The proposed TxVEC test uses a statistical vertical eye closure measurement which can be oscilloscope based, and is expected to be a simpler test than TDP. An update of the proposed test is given in [petrilla_01_0314_optx](#). Results with the adopted public domain link model^{Ref} have shown that TxVEC is better than TDP in predicting link margin as Tx parameters are traded against each other. However, a different link model (not public domain) drew different conclusions.
 - 1 addressed SRS and TDP test set up and test patterns, suggesting that the referenced test diagram doesn't allow PMD testing with a stand alone BERT.
 - 1 addressed the Jitter Tolerance spec, suggesting that the two jitter frequency and amplitude testing points be replaced with a continuous frequency/amplitude mask similar to clause 87.
 - And 2 others, one to allow group edit of J2 and J4 descriptive text, one estimating measurement uncertainty for TDP and TxVEC.
- Further work: Continue to finalize the 100GBASE-SR4 standard.
- Next meetings: yes... dates TBD after this meeting.

MMF ad hoc presentations reviewed since January 2014 meeting

- ‘Draft 100G SR4 TDP update’ – John Petrilla, [petrilla_01d1_0214_mmf](#) and [petrilla_01d2a_0214_mmf](#), updates on 13th and 20th Feb.
- ‘Comparison of transmitter metrics for 100GBASE-SR4’ – Piers Dawe, [TdpAndVec_mmf](#) and [TdpAndVec2_mmf](#), updates on 20th and 25th Feb.
- ‘TDP vs Tx VEC tests’ - Jonathan King, 6th Feb
- ‘SRS and TDP testing in Clause 95’ – Adee Ran, [ran_01_0214_mmf](#), 13th Feb
- ‘Measurement uncertainty’ – Jonathan King, 25th Feb.
- ‘Comprehensive transmitter and receiver jitter methodology’, Ali Ghiasi, [ghiasi_01_0114_optx](#), 25th Feb.
- ‘J2 J4 draft text’ – MMF ad hoc working document to review and edit text added to draft 2.1 to define J2 and J4 jitter.

Thank you !