

MMF ad hoc report

Jonathan King, Finisar, MMF ad hoc chair
IEEE P802.3bm, Phoenix, January 2013

MMF ad hoc activity since Nov 2012

- Four MMF ad hoc calls, all well attended.
 - Nov 29th, Dec 13th, Dec 20th 2012, and January 10th 2013.
- Meeting minutes and presented materials are available on the 40G & 100G FOTF website: <http://www.ieee802.org/3/bm/public/mmfadhoc/index.html>
- Highlights:
 - Reviewed BER and FER relationship for 100GBASE-SR4 supported by KR4 FEC, to determine what uncorrected output BER should be specified to support a corrected BER of 10^{-12} .
 - Joint with participants of 802.3bj
 - Leading to a proposed target operating BER of $<5 \times 10^{-5}$ with uncorrelated errors
 - Reviewed presentations on link modeling results, Tx and Rx spec proposals, and worked to develop and agree a strawman link budget for 100m reach over MMF
 - Leading to a consensus MMF ad hoc baseline proposal for the 100 m reach objective

MMF ad hoc looking forward

- Identified as needing resolution/further work:
 - If defined, should a 20m reach PMD be compatible with a 100m PMD ?
 - Jitter budget and metrics for an un-retimed FEC supported PMD ?
 - Further contributions addressing options for 20m MMF reach objective, showing broad market potential and significant cost density or power improvements.
 - For the 100m reach PMD:
 - Fine tune parameters/eliminate TBDs and items for further study
 - Compliance tests development
 - Reach for OM3
- Continue to build consensus towards baseline proposals targeting our MMF objectives.
- Next meetings: TBC

Thanks !