

# MMF Ad Hoc meeting minutes

8<sup>th</sup> Oct 2013

Approved minutes  
recorded by jonathan king

# MMF ad hoc meeting minutes, 8<sup>th</sup> Oct. 2013

- **Meeting started** at 9 am Pacific, chaired by Jonathan King.
- **Attendee list** was taken from the Webex attendee list, 17 attendees were noted.
- **Presentations** shared in the MMF ad hocs can be found at the MMF ad hoc web page.
  - <http://www.ieee802.org/3/bm/public/mmfadhoc/meetings/index.html>
- **IEEE patent policy:** Attendees were reminded of the IEEE patent policy
  - <http://www.ieee802.org/3/patent.html>
- **Agenda slides were agreed; meeting minutes for 19<sup>th</sup> Sept:** The 19<sup>th</sup> Sept meeting minutes were approved.
- **Presentations:**
  - Jonathan read the list of topics for further study drawn up at the 19<sup>th</sup> Sept ad hoc meeting.
  - ‘100GBASE-SR4 link penalties vs ER: MNP, MPN, RIN ’ – jonathan reviewed spreadsheet modeling of the potential change in MN, MPN, and RIN penalties associated with min ER specs of 2 dB and 3 dB.
- **Discussion:**
  - The group discussed how MN, MPN, and RIN penalties are captured by the current link model.
  - John Petrilla said that the link model value for ER of 3dB is the dB ratio of the OMA ‘1’ rail to ‘0’ rail, and since Tx ISI is included when calculating MPN and RIN penalties with the link model, any ‘extra’ penalty for a min ER of 2dB (as would be measured using the ER definition in clause 95) is already accounted for.
  - Piers said that the MPN and modal noise penalty should increase as the square of the increase in noise term (not linearly). John Petrilla said that since the link model already includes the effect of lower ER, no change in MPN allocation is needed. The group agreed that no change to the MPN penalty was needed.
  - Mike Dudek said that the TDP spec limits combined penalty due to laser RIN\_OMA , Tx\_ISI and path penalty, so the RIN penalty resulting from lower ER spec is capped; the group agreed that no change to the allocation for RIN penalty is needed.
  - The group agreed that the fixed value for MN penalty should be studied further, since the link model doesn’t calculate any changes with ER or ISI. Piers said he will present some work at the next ad hoc.
- **Meeting ended** at 10.30 am.
- **Next meeting:** Thursday 24<sup>th</sup> October, 9am to 10.30 am

# Attendees

Pete Anslow, Ciena

Derick Cassidy, BT

David Chalupsky, Intel

Piers Dawe, Mellanox

Patrick Decker, Oracle

Dan Dove, independent

Mike Dudek, Qlogic

Galen Fromm, Cray

Jonathan King, Finisar

Greg LeCheminant, Agilent

Dale Murray, Light Counting

Petar Pepeljugoski, IBM

John Petrilla, Avago Technologies

Rick Rabanovich, Alcatel-Lucent

David Rolston, Reflex Photonics

CK Wong, FCI

Kuang-yi Wu, HP