

MMF Ad Hoc meeting minutes

29th Aug 2013

Approved minutes
recorded by jonathan king

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- **Meeting started late** at 9.19 am Pacific, chaired by Jonathan King.
- **Attendee list** was taken from the Webex attendee list, 16 attendees were noted.
- **Presentations** shared in the MMF ad hoc 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 22nd August:** When asked, no objections were made to approving the 22nd August meeting minutes, so they are approved by the MMF ad hoc.
- **Presentation 1:** [petrilla_01_0913_optx](#) - John Petrilla described how the current definition of ER affects set up in a high ISI transmitter scenario and recommended a change to the ER definition (moving to an OMA based definition), a change to ER spec value, or eliminating the ER spec completely.
- **Presentation 2:** [anslow_01_0813_mmf](#) – Pete Anslow showed plots of average power vs OMA for 3 dB, 2 dB, and no ER spec limit, and the corresponding limiting cases of optical eyes. Pete noted that with no ER spec, the ratio of average power to OMA could be ~10dB.
- **Discussion:** The consensus was to keep the ER spec with the current definition but adopt a lower spec value; between 2 dB and 2.5 dB was accepted to be about right, it allows VCSELs with high ISI to still be operated within their 'sweet spot' range but without leaving receivers vulnerable to Tx with high optical pedestals and relatively small OMA. The value will be discussed and finalized in the York meeting.
- **Continued.....**

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- **Presentation 3:** [OMA_TDP_meanPowerMaps](#) – Piers Dawe showed plots of average power vs OMA and made the case for a peak power spec at around 4.4 dBm.
- **Discussion:** There was no agreement to introduce a peak power spec at this time, but the consensus was that this topic should be studied further. It was accepted that with suitable calibration a peak power measurement could be extracted at the same time as Tx eye mask was measurement. Jonathan said he wouldn't oppose a peak power spec value provided it doesn't impinge on the max average power spec and OMA spec map, ie. at the highest average power and OMA values, it should just limit peaking. Measurements of real transmitter eyes will be important in defining the need for and value of a peak power spec.
- **CAUI4 discussion:** The group did not have time to discuss the CAUI-4 comments.
- **Meeting ended** at 10.50 am.
- **Topics noted during discussion as worthy of further study:**
 - Reference transmitter RIN specification
 - The difference between TDP and Allocation for penalties
 - The offset for Tx OMA min spec vs the Tx OMA minus TDP spec (currently 0.9dB)
- **Next meetings:** After York, TBC

Attendees

Pete Anslow, Ciena

Dave Brown, Semtech

Kevin Burt, Samtec

Wheling Cheng, Juniper

Piers Dawe, Mellanox

Patrick Decker, Oracle

Dan Dove, APM

Mike Dudek, Qlogic

Jonathan King, Finisar

John Petrilla, Avago Technologies

Rick Rabinovich, Alcatel-Lucent

Mike Ressler, Hitachi Cable

Pirooz Tooyserkani, Cisco

Nathan Tracy, TE

Paul Vanderlaan, Nexans

CK Wong, FCI