

MMF Ad Hoc meeting minutes

13th December 2012

approved minutes

recorded by Jonathan King

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- **Meeting started** at 8:30 am Pacific, chaired by Jonathan King.
- **Attendee list** was taken from the Webex attendee list, ~40 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 agreed.**
- **Meeting minutes for 29th Nov:** Jonathan asked if anyone had amendments to the unapproved minutes for the 29th October meeting. Two name/affiliation errors were noted and corrected before the meeting. Piers asked that the record of discussion on FER be corrected (Pete recommended FER of 5.12×10^{-10} (calculation method C, Q at PMA interface >3.89); Piers said he preferred the requirement of FER less than 6.62×10^{-10} (calculation method B, Q at PMA interface >3.88). Jonathan will revise the minutes and re-distribute for further comment.
- **Presentations and discussion:**
- Jonathan King: 100m MMF reach objective Tx and Rx parameters working document
The group went through the working document of Tx, Rx, and Link specs. Formulae for dependent Tx and Rx specs (ie specs that are dependent on other TBD parameters) were discussed and agreed, (shown on next slide). An updated version of the working document will be available on the MMF ad hoc meeting materials page.

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Average launch power	min	dBm	Tx_{av_min}	$=Tx_{OMA_min} - 2$
Optical Modulation Amplitude (OMA)	max	dBm	Tx_{OMA_max}	$=Tx_{av_max} + 0.6$ note 1
OMA	min	dBm	Tx_{OMA_min}	$=Tx_{OMA@TDP} - TDP + 0.9$ note 2
OMA at max TDP	min	dBm	$Tx_{OMA@TDP}$	
Launch power in OMA minus TDP	min	dBm	$Tx_{OMA-TDP}$	$=Tx_{OMA@TDP} - TDP$

Damage threshold	min	dBm	P_{dmg}	$=Tx_{av_max} + 1$
Average power at receiver	max	dBm	Rx_{av_max}	$=Tx_{av_max}$
Average power at receiver	min	dBm	Rx_{av_min}	$=Tx_{av_min} - IL$
Optical Modulation Amplitude (OMA)	max	dBm	Rx_{inOMA_max}	$=Tx_{OMA_max}$

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- **Actions and issues requiring resolution:**
 - A description is needed for the error statistics required at the PMA service interface in order to meet the required FER. Pete Anslow, Adam Healey, Mike Dudek, Matt Brown were particularly active during discussion of this topic.
 - A PIC statement will be required to describe the PMA service interface BER requirement and the error statistics.
 - 802.3bm will also need to define a normative test to guarantee system operation
 - If defined, should the 20m reach PMD be compatible with the 100m PMD ?
 - Further contributions addressing the 100m MMF reach objective
 - Further contributions addressing options for 20m MMF reach objective, showing significant cost density or power improvements
- **Next meeting:** Thursday 20th December, 2012, 8.30 am Pacific, duration 1.5 hours
Webex meeting details are shown on the last slide

Attendees

John Abbott, Corning

Pete Anslow, Ciena

Murat Arabaci, Juniper

Dave Brown, Gennum

Michael Brownell,

Piers Dawe, IPtronics

Dan Dove, Applied Micro

Mike Dudek, Qlogic

Galen Fromm,

Moa Garcia, TI

Hioroshi Hamano, Fujitsu

Kenneth Jackson

Jonathan King, Finisar

Sharon Lutz, US Conec

Jeffery Maki, Juniper

Phil McClay, TE Connectivity

Greg McSorley, Amphenol

Dale Murray, LightCounting

Peter Pepeljugoski, IBM

Randy Perrie, Onechipphotronics

Michael Ressler,

Peter Stassar, Huawei

Jim Theodoras,

Paul Vanderlaan, Nexans

CK Wong, FCI

Hiroki Yanagisawa,

Pavel Zivny, Tektronix

Webex details

- Start: 8.30am Pacific, 4.30pm GMT, 1.5 hours duration
- Webex meeting number: **591 327 019**
- Meeting password: **IEEE**
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- To join the meeting go to
 - <https://finisar.webex.com/finisar/j.php?J=592272448&PW=NYWY4OTVhYTAy>
 - 2. If requested, enter your name and email address.
 - 3. Enter the meeting password: **IEEE**
 - 4. Click "Join".
 - 5. Follow the instructions that appear on your screen.
- Teleconference information
 - **Call-in toll-free number: 1-8666545792 (US)**
 - Show global numbers:
<https://www.tcconline.com/offSite/OffSiteController.jpf?cc=9805136069>
 - **Conference Code: 980 513 6069**