MMF Ad Hoc meeting minutes

2nd May 2013

Unapproved minutes

recorded by Jonathan King

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- **Meeting started** at 9 am Pacific, chaired by Jonathan King.
- **Attendee list** was taken from the Webex attendee list, ~35 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 25th April**: When asked, no objections were made to approving the minutes for the meeting of 25th April, so they are approved by the MMF ad hoc.
- **Presentations:** OM3 reach – Jonathan King (**king_01_0513_mmf)**. Jonathan summarized link modeling results which showed that a FEC supported PMD with a maximum of 100 m reach capability on OM4 would be expected to have a maximum reach of 71 m on OM3.
- **Discussion**: Mike Dudek agreed with the basic methodology and summarized the conclusions as if the PMD has a reach of 100 m on OM4 then it will have a reach of 71 m on OM3. Petar Pepeljugoski commented that the 100m jitter values at TP1 and TP4 looked more like an un-retimed link.   John Petrilla said that the jitter values reflected the expectations of a relatively slow, and non-linear VCSEL source. Jonathan said that the link budget margin showing at max reach was required to keep jitter at TP4 within limits.
- There was some discussion on whether reach should be rounded to the nearest 10 m, eg 100 m on OM4, for simplicity, or as 106 m on OM4, with eventual agreement (no objections made) that 100 m on OM4 was preferred for simplicity for the customers.   It was felt that rounding the OM3 reach to 70 m was also preferred to rounding up to 75 m, since the latter would mean optical specs would be need to be slightly tighter in order to support the secondary medium (OM3). John Petrilla said there will be about 0.1 dB margin for the 70 m on OM3.
- Pete Anslow suggested that the OM3 reach proposal should be the subject of a presentation to the Task Force at the May meeting in Victoria; Jonathan, John Petrilla and Paul Kolesar acquiesced.

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- **Actions and issues requiring resolution:**
  - Contributions addressing the 100m MMF reach objective FFS and TBC items
  - Contributions were invited addressing options for the 20m MMF reach objective, showing significant cost density or power improvements.

- **Next meeting:** TBC, after the Victoria meeting in May

Attendees

Pete Anslow, Ciena,
Brad Booth, Dell
Dave Brown, Semtech Canada
Derek Cassidy, BT
Dave Chalupsky, Intel
Whalen Cheng,
Piers Dawe, IPtronics
Stephen Docking, PMC-Sierra
Dan Dove, Applied Micro
Mike Dudek, Qlogic
Ali Ghiasi, Broadcom
Miles Kimmitt,
Jonathan King, Finisar
Scott Kipp, Brocade
Paul Kolesar, Commscope
Nenad Lalic, TE Connectivity
David Law, 3Com

Mike Li, Altera
Dale Murray, LightCounting
Tom Palkert, Luxtera
Peter Pepeljugoski, IBM
John Petrilla, Avago Technologies
Rick Pimpinella, Panduit
Rick Rabinovich, Alcatel-Lucent
Michael Ressl, Hitachi Cable
Olaf Sahlen, TE Connectivity
Sam Sambasivan, ATT Labs
Megha Shanbhag,
Jeff Slavick, Avago Technologies
Peter Stasser, Huawei
Nathan Tracy, TE Connectivity
Alan Ugolini
Paul Vanderlaan, Nexans
CK Wong, FCI