MMF Ad Hoc meeting minutes

30th 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, ~20 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 2nd May**: When asked, no objections were made to approving the 2nd May meeting minutes, so they are approved by the MMF ad hoc.
- **Presentation:** Clause 95 TBDs – Jonathan King **.** Jonathan summarized the remaining TBDs in clause 95 (100GBASE-SR4, 100 m reach on OM4). Many spec line items are dependent on TDP value. SRS and TDP tests definition are major items to be resolved.
- **Discussion**: Jonathan proposed he draft SRS and TDP test definitions similar to clause 86 for review by the MMF ad hoc, the group agreed. Marco suggested that revision of the TDP test definition format was worth considering, perhaps using a form of eye mask test; several people agreed, detailed proposals were invited. After a discussion of Skew Variation and whether the value needed to change from 300ps, it was decided that recalculating the max value for 100m reach would be useful. Paul Kolesar agreed to do so.
- **Presentation:** Extended wavelength receivers for forward compatibility – Jack Jewell -***jewell_01_0513_mmf***. Jack presented arguments for requiring a 850nm to 1200nm wavelength range for 100GBASE-SR4 receivers, to allow forward compatibility with future long wavelength VCSEL based modules. CWDM VCSEL based systems seem more likely to be in the 900-1200nm wavelength range than around 850nm.
- **Discussion:** There were several questions about modal bandwidth of OM3 and OM4 at longer wavelengths, and what reach could be expected at 26Gb/s and 56Gb/s. Paul Kolesar offered to provide some guidance on what could be expected. Mike Dudek asked if an OM5 fibre optimized for 1um could be expected, Paul said in principle yes, and noted that the installed base had been constantly evolving from OM1 to OM4 as fibre performance became available. The group agreed this topic was worth further investigation.
- **Meeting ended** at ~10.40am

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- **Actions and issues requiring resolution:**
  - Contributions addressing the 100m MMF reach objective TBD items
    - Paul Kolesar agreed to calculate the Skew Variation for 100m reach and report back to the MMF ad hoc.
    - Jonathan said he'd prepare drafts of SRS and TDP test definitions in a similar format as clause 86, for review by the MMF ad hoc.
    - Proposals for alternative SRS test and TDP test are invited

- **Next meeting:** 13th June 2013, 9am to 10.30 Pacific

Attendees

Pete Anslow, Ciena,
Dave Brown, Semtech Canada
Paul Brusenbach,
Whalen Cheng,
Piers Dawe, IPtronics
Mike Dudek, Qlogic
Galen Fromm, Cray
Ali Ghiasi, Broadcom
Jack Jewell, Commscope
Jonathan King, Finisar
Paul Kolesar, Commscope
Marco Mazzini, Cisco
Tom Palkert, Luxtera
John Petrilla, Avago Technologies
Rick Rabinovich, Alcatel-Lucent
Michael Ressl, Hitachi Cable
Matt St Peter,
Pirooz Tooyserkani, Cisco
Nathan Tracy, TE Connectivity
Paul Vanderlaan, Berk-Tek
CK Wong, FCI