MMF Ad Hoc meeting minutes

8th November 2012

minutes recorded by Jonathan King

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- **Meeting started** at 8:04 am Pacific, chaired by Jonathan King.
- **Attendee list** was taken from the Webex attendee list and e-mailed confirmations
- **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** after edits to text describing the relationship between SR4 and CR4.
- **Meeting minutes for 25th Oct**: Jonathan asked if anyone had any amendments to the unapproved minutes for the 25th October meeting. One name/affiliation error was noted and corrected before the meeting. No further comments were made, so the minutes are approved by the MMF Ad Hoc.
- **Presentations and discussion:**
  - Tracker tables for proposed Tx and Rx values – "MMF-TxRx-param-tracker-08Nov2012"
    - A working document to track consensus proposed specs (updated each MMF ad hoc meeting), referencing link model values from Petrilla_2a_0912, Dawe_02_0912 and 802.3ba specs, and Fibre Channel link model values.
    - The group worked on agreeing Tx, Rx, and link, parameter values to go into a 'proposed' spec column. Astounding progress was made. The updated tables will be uploaded to the MMF ad hoc page.

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- **Presentations and discussion continued:**
  - 100G SR4 100m & 20m jitter and power budget analysis –petrilla_02_1112_optx (5)
  - A presentation by John Petrilla on KR4 FEC supported, retimed and un-retimed links, addressing the 20m and 100m reach objectives.
  - There was much discussion of how the jitter budget might be defined for an for an un-retimed FEC supported short reach MMF link. The possibility of using lower probability jitter metrics for the host electrical output and input tolerances was discussed, as one way of easing the host jitter requirements. This will be a subject for further study.
  - John Petrilla said his link modeling still uses a target Q consistent with a post-FEC BER of 10^{-15}, but indicated that he will change that to BER of 10^{-12} , consistent with the task force's current objective.
- **Actions:** Jonathan to update Tx and Rx tracking tables and post on reflector.

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- **Needing resolution/further work:**
  - Relationship of BER before and after FEC decoding; decide target uncorrected BER
  - Relationship of frame error ratio to bit error ratio; does this affect 802.3bm?
  - 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 meetings:** TBC: Thursday 29th November, 2012, 8am Pacific ?

  TBC: Thursday 20th December, 2012, 8am Pacific ?

  Webex meeting details are shown on the last slide

Attendees

John Abbott, Corning

Pete Anslow, Ciena

Piers Dawe, IPtronics

Dan Dove, Applied Micro

Mike Dudek, QLogic

Ali Ghiasi, Broadcom

Hioroshi Hamano, Fujitsu

Jonathan King, Finisar

Scott Kipp, Brocade

Ryan Latchman, Mindspeed

Mike Li, Altera

Phil McClay, TE

John Petrilla, Avago Technologies

Rick Pimpinella, Panduit

Rick Rabinovich, Alcatel-Lucent

Kapil Shrikhande, Dell

Nathan Tracy, TE

CK Wong, FCI

Webex details

- Start: 8am Pacific, 4pm GMT, 1.5 hours duration

- Webex meeting number: **592 272 448**

- 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**