IEEE P802.3bs 400Gb/s Ethernet MMF Ad Hoc meeting minutes

20th June 2014

Unapproved minutes

recorded by jonathan king

400G MMF ad hoc meeting minutes, 20th June 2014

- **Meeting started** at 8 am Pacific, chaired by Jonathan King.
- **Attendee list** was taken from the Webex attendee list, 39 attendees were noted.
- **Presentations** shared in the MMF ad hocs will be available on the MMF ad hoc web page.
  - *http://www.ieee802.org/3/bs/public/adhoc/mmf/index.shtml*
- **IEEE patent policy:** Attendees were reminded of the IEEE patent policy.
  - *http://www.ieee802.org/3/patent.html*
- **House keeping:** The agenda was approved.
- **Presentation 1:**
  - Title: MMF ad hoc role,
  - Presenter: Jonathan King, MMF ad hoc chair
  - See: king_01_0614_mmf
  - Jonathan reminded the group of the MMF ad hoc charter, project objectives, and agreed project timeline, and invited people to bring in detailed proposals that address the 100 m MMF objective for review in the MMF ad hoc.
- **Presentation 2:**
  - Title: Study of 400Gb/s MMF PMD options
  - Presenter: Jonathan King, Finisar, et al
  - See: king_02_0614_mmf
  - Jonathan compared preliminary link budgets for VCSEL based MMF PMD options, including 25 Gb/s per laser NRZ, and 50 GB/s per laser NRZ and PAM4 modulation formats. Jonathan observed that the 50 Gb/s links would benefit from significantly stronger FEC, and would require significantly faster, or significantly lower RIN, VCSELs. A question of eye safety limits was raised as a possible issue for multiple wavelengths per fibre.
- **Meeting ended** at 9.30 am

Attendees

Pete Anslow, Ciena
Gurpreet Bhullar, Semtech
Martin Bouda, Fujitsu
Derek Cassidy, BT
David Chen, NSN
Sacha Corbeil, JDSU
Piers Dawe, Mellanox
Dan Dove, Dove Networking Solutions/Huawei
Mike Dudek, Qlogic
John Ewen, IBM
Ali Ghiasi, independent
Steve Gorshe, PMCS
Adam Healey, Avago Tech
Jack Jewell, Commscope
Jonathan King, Finisar
Keisuke Kojima, Merl
Paul Kolesar, Commscope
Brett Lane, Panduit
Ryan Latchman, Macom
Mike Peng Li, Altera
Jeff Maki, Juniper
Richard Mellitz, Intel
Andy Moorwood, Infinera
Dale Murray, LightCounting
Raymond Nering, Intel
Gary Nicholl, Cisco
Vasu Parthasarathy, Broadcom
John Petrilla, Avago Tech
Rick Pimpinella, Panduit
Rick Rabinovich, Alcatel-Lucent
Mike Ressl, Hitachi Cable
Andre Szczepanek, Inphi
Milijevic Slobodan, Microsemi
Nish Takeshi, YEU
Fred Tang, Broadcom
Nathan Tracy, TE
Patrick Van Vickle, Sumitomo-Electric
Robert Wang, Vsemi
Tong Tong Wang, Huawei
Zhongfeng Wang, Broadcom