

# Approved minutes

## P802.3bs 400 Gb/s Ethernet SMF Ad Hoc

### Teleconference 9 June 2015

Minutes taken by Pete Anslow, Ciena

The meeting started at 7:31 am Pacific chaired by Pete Anslow, the attendee list was taken from the Webex attendee list plus any e-mail notifications of attendance.

Documentation for the call can be found at the Ad Hoc web page:

<http://www.ieee802.org/3/bs/public/adhoc/smf/index.shtml>

Pete reminded everyone of the updated IEEE patent policy (<http://www.ieee802.org/3/patent.html>) and asked if anyone was unfamiliar with it. No one responded.

Pete asked if anyone had any objection or additions to the draft agenda. The order of presentations was changed at the request of one of the presenters.

Pete asked if anyone had any corrections to the draft minutes from the 28 April call. No one responded, so these minutes are approved by the Ad Hoc.

#### Presentation #1

Title: SMF BTIs

Presenter: Pete Anslow, Ciena

See [anslow\\_01\\_0615\\_smf](#)

Pete showed the BTIs prior to the Pittsburgh meeting and then reviewed a proposed revised set of BTIs going forward. These were:

500 m objective

4 x 100G PAM4 PSM4 adopted as the modulation format

- Baseline parameters required

2 km objective

- 8 x 50G NRZ
  - Cost and size low enough to address this market?
- 8 x 50G PAM4
  - Cost and size low enough to address this market?
- 4 x 100G PAM4
  - Test results establishing acceptable BER curve
  - RX sensitivity / technical feasibility

### Presentation #2

Title: 400G-PSM4: A Proposal for the 500m Objective using 100 Gb/s per Lane Signaling  
Presenter: Brian Welch, Luxtera  
See welch\_01\_0615\_smf

During the presentation there were some comments, including a question as to whether a BER of  $2E-4$  could be accommodated.

### Presentation #3

Title: 400Gb/s 8x50G PAM-4 WDM 2km SMF PMD Discussion  
Presenter: Chris Cole, Finisar  
See cole\_01\_0615\_smf

During the presentation of cole\_01\_0615\_smf, it was noted that on page 3, the term "PHY" was being used with a different meaning than that used in 802.3. Chris agreed to change both occurrences to "PMA". A revised version of the presentation cole\_01a\_0615\_smf was posted after the call.

### Presentation #4

Title: Updated considerations on 8x50G PAM4 for 2km duplex SMF  
Presenter: Peter Stassar, Huawei  
See stassar\_01\_0615\_smf

### Presentation #5

Title: Ge/Si APD for PAM4 application  
Presenter: Mengyuan Huang, SiFotonics  
See huang\_01\_0615\_smf

Pete reminded the meeting that the next SMF Ad Hoc call was scheduled for Tuesday 23 June at 8:30 (one hour later than usual). The meeting closed at 8:47 am Pacific.

Attendee list (taken from Webex attendee list)

Pete Anslow, Ciena	Ching-yin Hong, SiFotonics
Ahmet Balcioglu, Analog Devices	Rita Horner, Synopsys
William Bliss, Broadcom	Mengyuan Huang, SiFotonics
Adrian Butter, IBM	Jeff Hutchins, Ranovus
Chris Cole, Finisar	Kenneth Jackson, Sumitomo
Keith Conroy, Multiphy	David Malicoat, HP
John D'Ambrosia, Dell	Flavio Marques, Furukawa
Mike Dudek, Qlogic	Paul Mooney, Spirent
Ed Frlan, Semtech	Dale Murray, LightCounting
Ali Ghiasi, Ghiasi Quantum LLC	Gary Nicholl, Cisco

Tom Palkert, Luxtera-Molex  
Dong Pan, SiFotonics  
Vasu Parthasarathy, Broadcom  
Phong Pham, US Conec  
Rick Pimpinella, Panduit  
Rick Rabinovich, Alcatel-Lucent  
R K Rannow, APIC  
Dan Sparacin, Aurrion  
Joel Goergen, Cisco

Peter Stassar, Huawei  
Phil Sun, Marvell  
Andre Szczepanek, Inphi  
Frederick Tang, Broadcom  
Brian Teipen, Adva  
Alan Tipper, Semtech  
Nathan Tracy, TE Connectivity  
Alexander Umnov, Fujitsu  
Brian Welch, Luxtera  
Martin White, Cavium