

# Approved minutes

## Next Gen 100G Optics SMF Ad Hoc Teleconference 4 Sep 2012

Minutes taken by Pete Anslow, Ciena

The meeting started at 8:05 am Pacific chaired by Pete Anslow, the attendee list was taken from the Webex attendee list.

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

<http://www.ieee802.org/3/bm/public/smfadhoc/meetings/index.html>

Pete reminded everyone of the IEEE patent policy (<http://www.ieee802.org/3/patent.html>).

Pete asked if anyone had any corrections to the draft minutes from the 21 August call. No one responded, so these minutes are approved by the Ad Hoc.

Pete asked if anyone had any objection to the draft agenda sent to the group reflector on 4 September. There were no objections.

### Presentation #1

Title: 40GBase ER4 Spec Proposal

By: Ed Ulrichs and Hsu-Feng Chou, Source Photonics

    Weiqiang Cheng and Lu Huang, China Mobile

See: ulrichs\_01\_0912\_smf.pdf

It was pointed out that the proposed *Average receive power, each lane (max)* and *Receive power, each lane (OMA) (max)* were not consistent with the transmitted powers and the proposed *Channel insertion loss (min)*.

### Presentation #2

Title: 40GBASE-ER4 PMD Specification Baseline - Working View

By: Jon Anderson, Oclaro and Eddie Tsumura, Sumitomo Electric Industries

See: anderson\_01\_0912\_smf.pdf

### Presentation #3

Title: 40GBASE-ER4 optical budget proposals

By: Pete Anslow, SMF Ad Hoc chair

See: anslow\_01\_0912\_smf.pdf

Pete expressed the view that having two different requirements for receiver sensitivity as proposed in anderson\_01\_0912\_smf would result in there being two different PMDs. This was supported by Mike Dudek.

Pete suggested that a possible way forward was to compromise between the 18 dB and 19 dB channel insertion loss with 18.5 dB and that if no one objected, he had generated a set of values for this case. No one objected, so Pete presented:

#### Presentation #4

Title: 40GBASE-ER4 optical budget compromise proposal

By: Pete Anslow, SMF Ad Hoc chair

See: anslow\_02\_0912\_smf.pdf

Pete stated that his analysis of the link loss data suggested that there was ~0.5 dB of connector loss already included in his data, so he was comfortable with reducing his proposal for the *Channel insertion loss (max)* to 18.5 dB.

The proposed compromise budget received general support as a strawman budget to provide the basis for moving forward towards a baseline.

It was pointed out that if the *Average launch power, each lane (max)* remains at a higher value than the *Damage threshold (min)* then it would be helpful to introduce a warning in the draft that connecting the transmitter directly to the receiver may cause damage.

Piers asked about the penalty associated with the 12 ps proposed DGD\_max. This was covered on slide 7 of anslow\_01a\_0812\_smf.pdf. Differing opinions were expressed as to whether it was necessary to modify the power budget to account for this penalty.

The meeting closed at 9:26 am Pacific.

Attendee list (taken from Webex attendee list)

Jon Anderson, Oclaro

Pete Anslow, Ciena

Hsu-Feng Chou, Source Photonics

Piers Dawe, IPtronics

Dan Dove, Applied Micro

Mike Dudek, Qlogic

Galen Fromm, Cray

Jonathan King, Finisar

Paul Kolesar, Commscope

Tom Palkert, Luxtera

Liang Qiu, Nexans

Michael Ressler, Hitachi Cable

Sam Sambasivan, AT&T

Peter Stassar, Huawei

Eddie Tsumura, SEI

Ed Ulrichs, Source Photonics

Alexander Umnov, Huawei