

Approved minutes

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

Teleconference 6 October 2015

Minutes taken by Pete Anslow, Ciena

The meeting started at 8:02 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. No one responded, so these agenda was approved by the Ad Hoc.

Pete asked if anyone had any corrections to the draft minutes from the 1 September call. No one responded, so these minutes are approved by the Ad Hoc.

Presentation #1

Title: SMF TBDs

Presenter: Pete Anslow, Ciena

See [anslow_01_1015_smf](#)

Page 3

Pete asked if there was any objection to changing the BER requirement from 2×10^{-4} to 2.4×10^{-4} for all four PMDs. No one objected. Pete also asked if there was any objection to changing the FLR requirement from 6.2×10^{-11} to 9.2×10^{-13} with an explanation that this may be degraded to 6.2×10^{-11} by additional errors from the electrical interfaces. No one objected.

Page 4

After a discussion on delay, Skew and Skew Variation, there was no consensus for a change to the values.

Page 5

There were mixed opinions on the usefulness of the spec. for SMSR.

There was agreement that the various reflection specifications should be dealt with as a

group in association with a study of the penalty they cause.

There was agreement that the specification for the receiver 3 dB electrical upper cutoff frequency should be removed.

For DGD_max (where the current value is derived from 10 ps over 10 km scaled with the square root of distance) there was agreement that the penalty due to DGD for a 53 GBd PAM4 signal should be studied.

For fiber attenuation, there was agreement that a value of 0.5 dB/km should be used and that the connector loss should be changed to 2.75 dB to make up the remainder of the 3 dB channel insertion loss.

Page 6

There was agreement that the SMSR specification is less useful for these PMDs than for 400GBASE-DR4 due to the WDM multiplexer characteristic, but there was still no clear consensus on the usefulness of the spec.

For the Average launch power, each lane (min) values (derived from the OMA_{outer} (min) values with infinite ER) there was no objection to leaving them as they are.

There was agreement that the various reflection specifications should be dealt with as a group in association with a study of the penalty they cause.

For the Damage threshold, there was no objection to the current values (1 dB above the Average receive power, each lane (max)).

There was agreement that the specification for the receiver 3 dB electrical upper cutoff frequency should be removed.

Pete indicated that he would submit comments against draft 1.0 for the items where there is consensus. Pete reminded the meeting that there will be another SMF Ad Hoc meeting opportunity on Tuesday 20 October at 8:00 am Pacific.

The meeting closed at 9:44 am Pacific.

Attendee list (taken from Webex attendee list)

Ghani Abbas, Ericsson

Pete Anslow, Ciena

Martin Bouda, Fujitsu

Adrian Butter, Globalfoundries

Frank Chang, Inphi

Henry Chen, Broadcom

John D'Ambrosia, Dell

Piers Dawe, Mellanox

Mike Dudek, Qlogic

Ali Ghiasi, Ghiasi Quantum LLC

Kenneth Jackson, Sumitomo

Kumaran Krishnasamy, Broadcom

David Law, HP

Greg LeCheminant, Keysight

Hai-Feng Liu, Intel

David Malicoat, HP

Flavio Marques, Furukawa

Andy Moorwood, Ericsson

Dale Murray, LightCounting

Jim Nadolny, Samtec

Gary Nicholl, Cisco
Takeshi Nishimura, Yamaichi
Rick Pimpinella, Panduit
Rick Rabinovich, ALE
R K Rannow, APIC
Jeff Slavick, Avago
Peter Stassar, Huawei
Bharat Tailor, Semtech

Frederick Tang, Broadcom
Pirooz Toyserkani, Cisco
Nathan Tracy, TE Connectivity
Stephen Trowbridge, Alcatel-Lucent
Brian Welch, Luxtera
Martin White, Cavium
Qing Xu, Belden