Approved minutes P802.3bs 400 Gb/s Ethernet Electrical Ad Hoc Teleconference 6th March 2017

Minutes taken by Andre Szczepanek, Inphi

The meeting started at 8:05 am Pacific chaired by Andre Szczepanek, 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/elect/index.shtml

Andre 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.

Andre presented the IEEE participation Foil.

Andre asked if anyone had any objection or additions to the draft agenda. No one responded, so this agenda was approved by the Ad Hoc.

Andre asked if anyone had any objection or additions to the draft minutes from the 20th February 2017 call. No one responded, so the minutes were approved by the Ad Hoc.

Presentation #1

Title: Electrical Interface Ad Hoc Opening/Agenda

Presenter: Andre Szczepanek, Inphi

http://www.ieee802.org/3/bs/public/adhoc/elect/06Mar 17/szczepanek 01 030617 elect.pdf

Presentation #2

Title: Merged Jitter Sub-clause

Presenter: Andre Szczepanek, Inphi

http://www.ieee802.org/3/bs/public/adhoc/elect/06Mar 17/szczepanek 02 030617 elect.pdf

Andre presented the proposed merged jitter sub-clause, that addresses both structural and methodology comments against the existing jitter sub-clauses. Some minor editorial changes to the document were proposed during the discussion, these have been incorporated in the posted document. There was also discussion on whether taking the maximum of the 12 calculated EOJ should be replaced by the mean or the RMS. Andre asked that this discussion be taken off-line and that interested parties should come up with a consensus modification.

Presentation #3

Title: 50G PAM4 C2M ADS and COM Eye Simulation Comparison

Presenter: Mike Dudek, Cavium

http://www.ieee802.org/3/bs/public/adhoc/elect/06Mar 17/dudek 01 030617 elect.pdf

Presentation #4

Title: 50G PAM4 C2M Effect of Impairments on eye opening

Presenter: Mike Dudek, Cavium

http://www.ieee802.org/3/bs/public/adhoc/elect/06Mar 17/dudek 02 030617 elect.pdf

Mike presented results of ADS simulations of the Chip-to-Module link.

Presentation #5

Title: Chip-to-module far-end TX eye measurement proposal

Presenter: Adam Healey, Broadcom

http://www.ieee802.org/3/bs/public/adhoc/elect/06Mar 17/healey 01 030617 elect.pdf

Adam presented simulations that indicate the current Tx eye measurement method can be met without the use of Tx pre-cursor equalization. The presentation proposes an additional test to verify that a transmitter is providing Tx pre-cursor equalization.

The meeting adjourned at 10:00am Pacific.

Attendee list (taken from Webex attendee list)

Andre Szczepanek Inphi
Vittal Balasubramani Dell
Yasuo Hidaka Fujitsu
Ali Ghiasi Indepe

Ali Ghiasi Independent
Tao Hu Cavium
Adam Healey Broadcom
Raj Hegde Broadcom
Martin White Cavium
Vittal Balasubramani Dell
Piers Dawe Mellanox

John Ewen Global Foundries

Mike Dudek Cavium
Megha Shanbhag TE
Raymond Nering Cisco

Charles Moore Consulting

Ed Frlan Semtech
Peter Anslow Ciena
Richard Mellitz Samtec
Aananda Kumar Maxlinear
Tom Palkert VISI
Upen Kareti Cisco
Adee Ran Intel

Kumaran Krishnasamy Broadcom

Rick Rabinovich Ixia