Unapproved minutes P802.3bs 400 Gb/s Ethernet Electrical Ad Hoc Teleconference 7 December 2015

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

Andre asked if anyone had any corrections to the draft minutes from the 30 November 2015 call. No one responded, so these minutes are 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/07Dec_15/szczepanek_01_120715_elect.pdf

Presentation #2
Title: CHANNEL OPERATING MARGIN (COM) PROPOSAL FOR CDAUI-8 C2C
Presenter: Magesh Valliappan, Broadcom
http://www.ieee802.org/3/bs/public/adhoc/elect/07Dec_15/valliappan_01_120715_elect.pdf

There was discussion on determining the Va, Vb, Vc, & Vd values from average levels in a PRBSQ13 eye diagram rather than from the TX linearity test pattern. Mike Dudek disagreed with this and requested the opportunity to show a slide to support his position. The presentation continued, and there was a positive reaction to the use of a least square method with PRBSQ13 data to estimate ES1 & ES2. Mike then presented a slide showing asymmetric PAM4 ISI at the inner (1,2) levels. It was discussed. A more detailed presentation on the least square method was requested. A discussion started on how "Receive level separation mismatch" is handled in COM. At 9:10am Andre call time on the discussion to allow Presentation #3 to be heard.

Presentation #3

Title: Channel Operating Margin (COM) proposal for CDAUI-8 C2C (Updated)

Presenter: Raj Hegde, Broadcom

http://www.ieee802.org/3/bs/public/adhoc/elect/07Dec_15/hegde_01_120715_elect.pdf

There was discussion about how Symbol Error rate can be measured for CDAUI-8 Receiver Interference tolerance Tests given 2 FEC lanes are bit multiplexed onto each lane. There was some support for a 1e-5 BER based on an "a=0.5" assumption.

At 9:50am, by way of closing business, Andre showed the results of the CRU Bandwidth Straw Poll taken by email (see presentation #1), but postponed the slides giving his observation of the CRU Bandwidth issue until the next meeting.

Andre asked if there was any objection to adding a Monday 21st December Ad Hoc call. There was only one objection. Andre will schedule a call and the meeting can be cancelled if there no presentation requests are made.

The meeting closed at 9:57 am Pacific.

Attendee list (taken from Webex attendee list)

Andre Szczepanek	inphi
Mike Dudek	qlogic
Kenneth Jackson	sei-device
Paul Mooney	spirent
Raj Hegde	broadcom
Adam Healey	avagotech
Yasuo Hidaka	fujitsu
Randy k Rannow	APIC
Derek Cassidy	bt
Ben Smith	inphi
sam sambasivan	labs.att
Megha Shanbhag	tyco electronics
Rick Rabinovich	alcatel-lucent
David Malicoat	hpe
Jim Nadolny	samtec
Piers Dawe	mellanox
Adee Ran	intel
Rick Rabinovich	alcatel-lucent
Peter Anslow	ciena
John Ewen	globalfoundries
Qing Xu	belden
Upen Reddy	cisco
martin white	caviumnetworks

Ed Frlan	semtech
magesh	broadcom
Rick Rabinovich	alcatel-lucent
Tomer Osi	leabasemiconductor
Stephane Dallaire	inphi
Rich Mellitz	intel
Qian Zhang	cisco
Brian Teipen	advaoptical
Galen Fromm	cray
Phil Sun	marvell
Tony Zortea	multi-phy
Rita Horner	synopsys
Rob Stone	broadcom
Gary Nicholl	cisco
Wheling Cheng	ericsson
Jacky Chang	hpe
Jeffery Maki	juniper