Minutes P802.3by 25 Gb/s Ethernet Task Force ad-hoc meeting – September 2, 2015

Prepared by Kent Lusted

Proposed Agenda:

- Approval of the Agenda
- IEEE patent policy reminder (see http://www.ieee802.org/3/patent.html)
- Approval of draft minutes for August 26, 2015
- P802.3by Task Force Update, Mark Nowell
- P802.3by D2.0 editorial update, Matt Brown
- "25GAUI C2M module adaptive receiver", Matt Brown
- "3 meter 26AWG 4xSFP to QSFP without FEC at 0C, 25C, and 55C", Andrew Zambell
- "Low-Frequency CTLE to support 3m cable w/o FEC", Yasuo Hidaka
- "Problems of high DFE coefficients", Yasuo Hidaka Discussion.

Presentations posted at: http://www.ieee802.org/3/by/public/adhoc/architecture/index.html

Meeting began at 8:06 a.m. Pacific.

Meeting began with the agenda presentation:
http://www.ieee802.org/3/by/public/adhoc/architecture/agenda_090215_25GE_adhoc.pdf

Matt Brown showed the links to the ad hoc page and the email reflector.

Matt Brown reviewed the Attendance information related to the ad hoc. He reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes. Matt reminded participants to mute their lines when not speaking and reviewed the steps to unmute.

Matt presented the proposed agenda. The agenda was approved by the ad hoc.

Matt reminded participants of the IEEE patent policy. (see http://www.ieee802.org/3/patent.html)   No one responded.

The August 26 meeting minutes were posted on September 1, later than normal. Kent noted that no comments were received on the posted minutes or their delayed posting. If there are any comments, please contact Kent or Matt. Matt asked if there were any objections to approving the posted minutes. No one responded. The August 26 meeting minutes were approved by the ad hoc.

25GE Task Force update – Mark Nowell
- Interim will be held on Wednesday thru Friday, the week of September 14.
- Presentation requests are due Friday, September 4. Contribution for posting is due on Tuesday, September 8.
- There will be an interim meeting on October 15. Mark is reviewing the rules for the interim and the meeting may not meet the requirements for teleconferencing. The task force is planning for a full day meeting. Chris Diminico noted a conflict with a TIA meeting that week. If the comment count and work is small enough, then the meeting will have a teleconference option.
- Mark noted that the goal of the interim is generate Draft 2.2 and circulate prior to the November plenary meeting.
- Kent noted that the presentation submission due date of September 8 is immediately after a US holiday weekend.

P802.by editorial update – Matt Brown
- Reviewed the editorial schedule and BTI list.
- Asked participants to review the BTI list and send feedback.

Matt Brown asked Mark Nowell to chair the meeting while he presents.

Presentation #1:
 "25GAUI C2M module adaptive receiver", Matt Brown
See http://www.ieee802.org/3/by/public/adhoc/architecture/brown_090215_25GE_adhoc.pdf
- Reviewed the comment details and the current specification.
- Jeff Maki noted that the intent of the comment is to put the reference to an adaptive receiver in the body of the text. It is currently only in the PICs.
- Discussed various ways to resolve the comment.
- Participants interested in the discussion should contact Matt Brown.

Presentation #2:
 "3 meter 26AWG 4xSFP to QSFP without FEC at 0°C, 25°C, and 55°C", Andrew Zambell
See http://www.ieee802.org/3/by/public/adhoc/architecture/zambell_090215_25GE_adhoc-v2.pdf
- The connectors were surface mount, not stacked.
- The plots on slides 5-6 show the calibration traces without any connectors, not a mated pair measurement.
- Reviewed the thermal profile on slide 8. The network analyzer was outside the chamber while the fixture and cable assembly was inside. The ruggedized RF cables between the fixture and the analyzer made the transition into the chamber.
- There was a request for the mated pair measurements of the fixtures used.
- Matt asked participants to hold questions until after the presentation is done to ensure the presenter was able to complete the presentation in the allotted time.
- Discussed if the 55C temperature point is valid or not. There were several comments about hot/cold isle racks and that some platforms or systems may see temperatures of 55C.

Presentation #3:

"Low-Frequency CTLE to support 3m cable w/o FEC", Yasuo Hidaka

See http://www.ieee802.org/3/by/public/adhoc/architecture/hidaka_090215_25GE_adhoc_01.pdf

- On slide 3, Yasuo noted that case A cable data may be suspect.
- Author noted that the results on slide 10 include a TX FIR.
- Deferred comments until after the second presentation.

Presentation #4:

"Problems with high DFE coefficients", Yasuo Hidaka

See http://www.ieee802.org/3/by/public/adhoc/architecture/hidaka_090215_25GE_adhoc_02.pdf

- There was a question about the inaccuracy of bmax for large values. Author noted that it needs discussion and additional details are available at the end of the presentation.
- Reviewed effect of bmax on BER.
- There were several comments regarding the sampling point in slide 7.
- Reviewed proposed options to meet the MTTFPA requirements.

Matt invited Yasuo Hidaka to return to the ad hoc meeting next week to continue the discussion.

Next ad hoc meeting will be September 9.

The ad hoc meeting ended at 9:31 a.m. Pacific.

List of attendees (captured from Webex tool)

Name	company
Adam Healey	avagotech
Adee Ran	intel
Adrian Butter	globalfoundries
Alex Kaminsky	mellanox
Alexander Rysin	mellanox
Ali Ghiasi	gmail
Andre Szczepanek	inphi
Andrew Lillie	intel
Andy Zambell	fci
anil	brocade
Arthur Marris	cadence
Beomtaek Lee	intel
chris diminico	independent
Chris Roth (Molex)	molex
Dan Dillow (FCI)	fciconnect
David Malicoat	hp
Derek Cassidy	not available

Eric Baden (Broadcom)	broadcom
Gary Nicholl	cisco
Geoffrey Chacon (HP)	hp
george zimmerman	CME consulting
Ghani Abbas	ericsson
Jeff Slavick	avagotech
Jeffery Maki	juniper
Jing Fang	marvell
John Dillard	microsemi
John Ewen	globalfoundries
John Nelson	arista
jonathan king	finisar
Juan-Carlos Calderon	inphi
Kapil Shrikhande	dell
Ken Van Orman	spirent
Kenneth Jackson	sei-device
Kent Lusted (Intel)	intel
Kumaran Krishnasamy	broadcom
Mark Nowell	cisco
martin white	caviumnetworks
mbrown	apm
Mike Andrewartha (Microsoft)	microsoft
Mike Dudek	qlogic
Nathan Tracy	te
Oded Wertheim	mellanox
Omer	mellanox
Phil Sun	marvell
Piers	mellanox
Randy k Rannow	not available
Rich Mellitz (Intel)	intel
Rick Rabinovich	alcatel-lucent
Rita Horner	synopsys
Scott Kipp	brocade
Tom Palkert	visi
Vittal Balasubramanian	dell
Warren Meggitt	arista
Yasuo Hidaka	us.fujitsu
Yong Kim	broadcom
Zvi Rechtman	mellanox