

IEEE P802.3cd Ad Hoc meeting – January 10, 2018

Prepared by Kent Lusted

Proposed Agenda:

- Approval of the Agenda
- Approval of the Dec 20 minutes
- IEEE patent policy reminder:
 - <http://www.ieee802.org/3/patent.html>
- IEEE Participation Requirements reminder
- P802.3cd TF Ad Hoc –
 - P802.3cd Task Force Update, Mark Nowell (5 min)
 - “Transmitter specifications and COM for 50GBASE-CR.”, Mike Dudek (30 mins)
 - “RLM vs. PAM4 Threshold Adjustment”, Hai-Feng Liu (20 mins)
 - “TDECQ Updates with Threshold Adjustment: VCSEL Results”, Frank Chang (15 mins)
 - Editorial Update, Matt Brown and the Amazing Editorial Team (remaining)

Presentations posted at: <http://www.ieee802.org/3/cd/public/adhoc/archive/index.html>

Meeting began at ~8:05 a.m. Pacific by Kent Lusted.

Meeting began with the agenda presentation:

http://www.ieee802.org/3/cd/public/adhoc/archive/agenda_011018_3cd_adhoc-v2.pdf

The ad hoc chair reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes. He reminded participants to mute lines when not speaking and reviewed the steps to unmute.

Showed the links to the IEEE P802.3cd Task Force ad hoc page and the email reflector.

Presented the proposed agenda and asked if there was objection as written. There was a request to modify the agenda to move the editorial item to the end. No one objected. The agenda was approved by the ad hoc.

Asked if there were comments regarding the posted minutes of the last ad hoc meeting. No one responded.

Reminded participants of the IEEE patent policy. He asked if anyone was unfamiliar with the IEEE patent policy. No one responded.

Reminded participants of the IEEE Participation Requirements and showed the slide with the Participation requirements. He asked if anyone was unfamiliar with the IEEE Participation Requirements. No one responded.

Agenda Items

P802.3cd Task Force update, Mark Nowell

- Meeting at January 2018 interim, week of Jan 22. Plan to address comments and generate D3.1.
- Monday morning ITU registration desk opens at 8:30 a.m., not 8:00 a.m. as previously communicated. Please pre-register to expedite the process.
- Presentation requests are due January 12, 2018. Presentation deadline is January 16, 2018.
- Comments are posted on the website. (See: <http://www.ieee802.org/3/cd/comments/index.html>)
- Chair noted that they are trying to minimize overlap with the other Study Groups and Task Forces meeting times. Please be aware that meetings may have variable start times so one group can start when another finishes – please consider when booking your travel.
- There is a joint IEEE/ITU workshop on Saturday, January 27, 2018. High level agenda is available at <https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180127/Pages/default.aspx>
- Early registration for the March plenary is Friday, January 26, 2018.

Presentation #1:

“Transmitter specifications and COM for 50GBASE-CR.”, Mike Dudek

See: http://www.ieee802.org/3/cd/public/adhoc/archive/dudek_011018_3cd_adhoc.pdf

- On slide 5, the mated test fixture model did not include crosstalk. Author thinks that the Rlm row order may be incorrectly listed. Reviewed and discussed many of the details on the slide.
- It was noted that the exact cables used on slide 7 are listed in the backup material.
- There are no cable contributions that are 16dB IL.
- Author offered to run another set of experiments that change Nve.
- There was a request to make the test fixture S4P file available and run with the Amphenol cable contributions.
- Author asked for a cable contribution that was at the max IL of the spec.

Presentation #2:

“RLM vs. PAM4 Threshold Adjustment”, Hai-Feng Liu

See: http://www.ieee802.org/3/cd/public/adhoc/archive/liu_011018_3cd_adhoc.pdf

- Author thanked David Leyba of Keysight for his comments/suggestions.
- On slide 5, TDECQ would have an average power at a point lower than Pth2 and would change the amount of error. The math shown on slide 5 was challenged when compared to the TDECQ as defined in D3.0.

Presentation #3:

“TDECQ Updates with Threshold Adjustment: VCSEL Results”, Frank Chang

See: http://www.ieee802.org/3/cd/public/adhoc/archive/chang_011018_3cd_01_adhoc-v2.pdf

- On slide 3, the eye on the left is the raw eye and the eye on the right is the post processed eye.
- It was noted that the scope filter bandwidth adjustment process included optimizing the TDECQ.
- It was noted that the presentation had references to an MSA meeting and the Chair stated that the presentation will be updated to remove it.

Editorial Update – Matt Brown

- Reviewed the comment count graphs from the editor's report.
- Reviewed the comments related to 100G and 50G skew variation. There was general agreement to remove the columns in the appropriate tables.
- Reviewed a comment about skew and the proposed response.

Matt Brown noted that the editorial team will try to post an early version of the proposed responses before the final version is available.

*** A free drink to the first person to let the Task Force Chair know they've read this ***

The ad hoc meeting ended at ~10 a.m. Pacific.

List of attendees (captured from Webex tool)

Name	Company
Abhijeet Ardey (Source)	sourcephotronics
Adam Healey	broadcom.com
Adee Ran	intel.com
Adrian Butter	globalfoundries
Alexander Rysin	mellanox.com
Ali Ghiasi	n/a/
Anand A (Mxl)	maxlinear.com
Arthur Marris	cadence.com
bill Kirkland	semtech.com
Chris DiMinico	n/a/
Dave	marvell.com
Dave Lewis (Lumentum)	lumentum.com
David Chen	ao-inc.com
David Law	HPE
David Malicoat (Senko)	Senko
Ed Frlan (Semtech)	semtech.com
Ed Ulrichs	sourcephotronics
Flavio Marques	furukawaelectri
Frank Chang	inphi.com
Frank Lambrecht (Gigamon Inc.)	Gigamon
Gary Nicholl	cisco.com
Greg LeCheminant	keysight.com
Hai-Feng Liu	intel.com
Howard Heck	intel.com
Jane Lim	cisco.com
Jeffery Maki	juniper.net
John Ewen	globalfoundries
jonathan	finisar.com
Kenneth Jackson (Sumitomo)	sei-device.com
Kent Lusted	intel.com
Kumaran Krishnasamy	broadcom.com
Marco Mazzini	cisco.com
Mark Kimber (Semtech)	semtech.com
Mark Nowell	cisco.com
martin white	cavium.com
Matt Brown	macom.com
Mike Dudek	cavium.com
Nathan Tracy (TE)	te.com

ofelt	juniper.net
Paul Kolesar	commscope.com
Pavel	tektronix.com
Peter Anslow	ciena.com
peter stassar	huawei.com
Phil Sun	credosemi.com
Piers	mellanox.com
RICHARD MELLITZ	samtec.com
Rick Rabinovich	ixiacom.com
Scott Sommers	molex.com
Stephen Didde	keysight.com
Steve Sekel	keysight.com
Steve Trowbridge	nokia.com
T.SAKAI	socionext.com
TAO HU	cavium.com
Tom Palkert	molex.com
Vittal Balasubramanian	innovium.com
Yasuo Hidaka (Independent)	n/a/