

## IEEE P802.3cd Ad Hoc meeting – June 28, 2017

Prepared by Kent Lusted

### Proposed Agenda:

- Approval of the Agenda
- Approval of the June 21 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 (10 min)
  - Editorial Update, Matt Brown (10 mins)
  - “Optional FEC degrade monitor feature for 50G and 100G FEC”, Gary Nicholl (20 min)
  - “CL 136 Link Training – Update Request Behavior”, Zvi Rechtman (30 min)
- P802.3cd & P802.3bs Electrical common topics
  - “Package impedance and termination effect on COM (update)”, Mike Dudek (30 min)
  - “Concerns with stressed input tests in Annex 120E D3p2”, Steve Sekel (20 mins)

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

Meeting began at ~8:00 a.m. Pacific by Kent Lusted.

Meeting began with the agenda presentation:

[http://www.ieee802.org/3/cd/public/adhoc/archive/agenda\\_062817\\_3cd\\_adhoc.pdf](http://www.ieee802.org/3/cd/public/adhoc/archive/agenda_062817_3cd_adhoc.pdf)

The ad hoc chair reminded participants that these P802.3cd ad hoc meetings until the July Plenary will be joint with the P802.3bs Electrical Track due to commonality of topics around COM. He reviewed the Attendance information related to the ad hoc. He 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. 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:**

- Working Group ballot closed. Matt Brown will cover the details.
- Next Task Force meeting is the week of July 10, 2017 in Berlin, Germany. Task Force will meet on Tuesday, Wednesday, and Thursday of that week. Start no later than 1pm on Tuesday but will start after the 802.3bs TF concludes its work.
- Presentation requests due 30 June, 2017. Presentations due 5 July, 2017 which is later than usual due to July 4<sup>th</sup> holiday in US.
- Projectors in Berlin use HDMI cables. Consider an adapter.

### **P802.3cd Editorial Update, Matt Brown:**

See: [http://www.ieee802.org/3/cd/public/adhoc/archive/brown\\_062817\\_3cd\\_adhoc.pdf](http://www.ieee802.org/3/cd/public/adhoc/archive/brown_062817_3cd_adhoc.pdf)

- First Working Group ballot closed on 25 June 2017. 203 comments received, including late comments.
- Large number of comments in CI 136 (Cable) and CI 137 (Backplane).
- Editor asked reviewers to use the comment spreadsheet included in the ballot review. Do not modify the spreadsheet.

### **Presentation #1:**

“Optional FEC degrade monitor feature for 50G and 100G FEC”, Gary Nicholl

See: [http://www.ieee802.org/3/cd/public/adhoc/archive/nicholl\\_062817\\_3cd\\_adhoc.pdf](http://www.ieee802.org/3/cd/public/adhoc/archive/nicholl_062817_3cd_adhoc.pdf)

- Reviewed the proposed change.

### **Presentation #2:**

“CL 136 Link Training – Update Request Behavior”, Zvi Rechtman

See: [http://www.ieee802.org/3/cd/public/adhoc/archive/rechtman\\_062817\\_3cd\\_adhoc.pdf](http://www.ieee802.org/3/cd/public/adhoc/archive/rechtman_062817_3cd_adhoc.pdf)

- Option #1 allows coef\_sel and coef\_sts to be sent in the same training frame.
- Discussed if the change was necessary or not.

### **Presentation #3:**

“Package impedance and termination effect on COM (update)”, Mike Dudek

See: [http://www.ieee802.org/3/cd/public/adhoc/archive/dudek\\_062817\\_3cd\\_adhoc.pdf](http://www.ieee802.org/3/cd/public/adhoc/archive/dudek_062817_3cd_adhoc.pdf)

- Presentation focuses on the impact of changing a set of COM parameters, not all of them.
- Discussed the return loss failure on the 12mm package. 30mm package passes.

**Presentation #4:**

“Concerns with stressed input tests in Annex 120E D3p2”, Steve Sekel

See: [http://www.ieee802.org/3/cd/public/adhoc/archive/sekel\\_062817\\_3cd\\_adhoc.pdf](http://www.ieee802.org/3/cd/public/adhoc/archive/sekel_062817_3cd_adhoc.pdf)

- Step response used 4 tap FIR (3 pre and 1 post)
- Discussed using an NRZ signal as the crosstalk aggressor.

Next ad hoc scheduled for 5 July.

\*\*\* 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)

Oded Wertheim	mellanox
Markus Weber	acacia-inc
Andre Szczepanek	hszconsulting
Ali Ghiasi	ghiasiquantum
Dino Pozzebon	microsemi
RICHARD MELLITZ	samtec
Kent Lusted	intel
Robert Lingle, Jr	ofsoptics
Tom Palkert	molex
Megha Shanbhag	te
Rita Horner	synopsys
Jitendra	inphi
Steve Sekel	keysight
Jitendra Swarnkar	inphi
Adee Ran	intel
Adam Healey	broadcom
Paul Kolesar	commscope
Piers Dawe	mellanox
dave penkler	hpe
Alexander Rysin	mellanox
Karen Liu	kaiam
Robert Sleigh	keysight
david malicoat	senko
Matt Brown	macom
Matt Brown	macom
David Law	hpe
Yasuo Hidaka	us.fujitsu
Varun Garg	keysight
Abhijeet Ardey	sourcephotonics
Howard Heck	intel
Upen Kareti	cisco
Jeff Slavick	broadcom
David Chalupsky	intel
John D'Ambrosia	ieee.org
michael ressl	hitachi-cable
Joachim Moll	keysight

Rick Rabinovich	ixiacom
Raymond Nering	cisco
Yuri Vandyshev	cisco
Abhijeet Ardey	sourcephotonics
Greg LeCheminant	keysight
Jitendra Swarnkar	inphi
chris diminico	ieee.org
Phil Sun	credosemi
martin white	cavium
John Ewen	globalfoundries
Vittal	innovium
Alex Levin	microsoft
Mike Dudek	cavium
bill kirkland	semtech
David Ofelt	juniper.net
Mark Nowell	cisco
aanandakumar	maxlinear
Zvi Rechtman	mellanox
David Piehler	dell
Ed Frlan	semtech
Galen Fromm	cray
Oded Wertheim	mellanox
Stephen Didde	keysight
Flavio Marques	furukawa .br
Anna Yankova	cisco.webex
scott sommers	molex
Gary Nicholl	cisco
Jaclyn Dang	cisco
Jane Lim	cisco