IEEE P802.3cu Task Force Ad Hoc meeting – March 5th, 2020

Prepared by Mark Nowell

Proposed Agenda:

- Approve agenda
- Approve previous ad hoc minutes
- Patent reminder
- http://www.ieee802.org/3/patent.html
- Participant reminder
- P802.3cu Task Force Ad hoc:
  - "Task Force Update" – Mark Nowell (5 mins)
  - "Chief Editor report" – Gary Nicholl (15 mins)
  - "Trying to understand TDECQ" – Gary Nicholl (15 mins)
  - "TDECQ, slowness, badness and overshoot" – Piers Dawe (25 mins)
  - "Impact of Tx Overshoot on Link Performance and TDECQ" – Roberto Rodes (20 mins)

Presentations posted at:
http://www.ieee802.org/3/cu/public/cu_adhoc/cu_archive/index.html

Meeting began at ~8:05 a.m. Pacific

Meeting began with the agenda presentation:
http://www.ieee802.org/3/cu/public/cu_adhoc/cu_archive/agenda_3cu_adhoc_030520.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 802.3cu 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.

Chair asked if there were any changes needed to the minutes from the last meeting that were posted. The minutes were approved by the ad hoc.

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 SA Copyright Policy and showed the slide with the Copyright Policy. Chair asked if anyone was unfamiliar with the IEEE SA Copyright Policy. No one responded.

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

Agenda Items

P802.3cu Task Force update, Mark Nowell
Draft update:

- Initial Working Group ballot on D2.0 closed.
- Received comments posted:
- http://www.ieee802.org/3/cu/comments/index.html

The Atlanta Task Force meeting will be cancelled as a F2F meeting. Virtual/teleconf meetings will look to replace F2F but details are still being worked out. Please watch email. Anticipation is that we will need to hold a series of teleconf interims between now and may to make progress.

- However, presentation request deadlines still hold! Friday Mar 6th. Submission deadline Tues Mar 10th.

Presentation #1: "Chief Editor report" – Gary Nicholl
See: http://www.ieee802.org/3/cu/public/cu_adhoc/cu_archive/editor_3cu_adhoc_030520.pdf

- D2.0 ballot closed
- 122 comments
- Three big ticket items:
    - Tx Overshoot definition
    - TDECQ-10LogCeq (and SECQ-10LogCeq)
    - 400GBASE-LR4 reach (proposal to change to 10km)

Presentation #2: "Trying to understand TDECQ" – Gary Nicholl
See: http://www.ieee802.org/3/cu/public/cu_adhoc/cu_archive/nicholl_3cu_adhoc_030520.pdf

- Presenter reviewed a high level perspective on understanding TDECQ and the various constraints additional to TDECQ and what they attempt to accomplish

Presentation #3: "TDECQ, slowness, badness and overshoot" – Piers Dawe
See: http://www.ieee802.org/3/cu/public/cu_adhoc/cu_archive/dawe_3cu_adhoc_030520_v2.pdf

- Presenter reviewed an analysis of TDECQ spec methodology and the 5 additional constraints that have been identified in our specifications that are used to ensure interoperability

- Presenter makes case in support of adding back on of the constraints (TDECQ-10log(Ceq) that was removed in D2.0 as well as pointing out that the new constraint added in D2.0 (overshoot) probably has a place.
- Presenter also proposed an approach to measuring overshoot

Presentation #4: "Impact of Tx Overshoot on Link Performance and TDECQ" – Roberto Rodes
See: http://www.ieee802.org/3/cu/public/cu_adhoc/cu_archive/rodes_3cu_adhoc_030520_v2.pdf

- Presenter shared experimental data showing measured relationships between overshoot and link performance
- Presenter argued that an absolute overshoot specification made the most sense to ensure the constraint limited the necessary transmitters without unfairly removing known good devices
- Presenter shows that TDECQ-10log(Ceq) may over-reject transmitters. Suggests the overshoot spec is sufficient.

The ad hoc meeting ended at ~9:10a.m. Pacific.

List of attendees (captured from Webex tool)

Mark Gustlin	cisco
roberto rodes	finisar
Vince Ferretti	corning
Steve Trowbridge	nokia
Ali Ghiasi	Ghiasi Quantum
Greg LeCheminant	keysight
Tom Issenhuth	Huawei
Maniloff, Eric	ciena
Mark Nowell	cisco
Dave Lewis	lumentum
Bo Zhang	inphi
Ken Jackson	sei-device
Roberto Rodes	finisar
inho kim	marvell
Vipul Bhatt	finisar
Raymond Nering	cisco
Stephen Didde	keysight
Matt Brown	Huawei
Stephen Didde	keysight
K Kota	inphi
Piers Dawe	mellanox
Thang Pham	Facebook
Ruoxu Wang	hisilicon
Thomas Palkert	Molex
Peter Stassar	huawei
Yoshiaki Sone	nel-america
Mark Kimber	semtech
David Piehler	dell
Phil Sun	credosemi
Ed Ulrichs	intel
Jeffery Maki	juniper
Frank Chang	Source Photonics
david malicoat	Independent
BRIAN WELCH	cisco
Gary Nicholl	cisco