IEEE P802.3ck Ad Hoc meeting –
February 26th, 2020

Prepared by Beth Kochuparambil

Proposed Agenda:

- Approval of the Agenda
- Approve Feb 19 2020 Ad Hoc Minutes
- IEEE Patent Policy reminder:
  - http://www.ieee802.org/3/patent.html
- IEEE Copyright reminder
  - https://standards.ieee.org/ipr/index.html
- IEEE Participation Requirements reminder
- Task Force Status
- 3ck Technical Presentations* –
  - " C2M Methodology and Limits at TP1a, TP4, and TP5" – Ali Ghiasi (30 mins)
- Comment Discussion
  - CA COM, Comments #10016, #10017, #10018
  - C2M VEC wording, Comments #10061, #10062
  - C2M: Np/Dp Values, Comments #10165, #10166
  - C2M far-end pre-cursor ISI, Comment #10144
  - Copper Cable Adaptation During Operation, Comment #10247

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

Meeting began at ~07:05 a.m. Pacific by Beth Kochuparambil.

Meeting began with the agenda presentation:
http://www.ieee802.org/3/ck/public/adhoc/feb26_20/agenda_022620_3ck_adhoc.pdf

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

http://www.ieee802.org/3/ck/public/adhoc/feb26_20/agenda_022620_3ck_adhoc.pdf
Presented the proposed agenda. Chair asked if there was opposition to the proposed agenda. No one responded. The agenda was approved by the ad hoc.

The chair noted that the February 26, 2020 minutes were posted. She asked if there were any additional corrections or modifications. No one responded.

Chair reminded participants of the IEEE patent policy. She asked if anyone was unfamiliar with the IEEE patent policy. No one responded.

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

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

Agenda Items

P802.3ck Update, Beth Kochuparambil
See: http://www.ieee802.org/3/ck/public/adhoc/jan15_20/agenda_011520_3ck_adhoc.pdf
- Reviewed the adopted timeline.
- Noted D1.1 review closes 26 February 2020 AOE. Proposed responses are targeted to be available the Thursday before the March 2020 plenary
- Noted upcoming ad hoc schedule and the intent to review open comments and craft the proposed responses. Also noted that currently there are two ad hocs for each of the next two weeks. Announcements on agendas or cancellations will be sent via the reflector.
- Presentation requests are due Friday, 6 March 2020 AOE. Presentations are due Monday, 9 March 2020 AOE.
- Noted co-located interim on Monday, 16 March from 8am-945am. See http://schedule.802world.com/schedule/schedule/show for more Plenary schedule details.

Presentation #1:
"C2M Methodology and Limits at TP1a, TP4, and TP5", Ali Ghiasi
See: http://www.ieee802.org/3/ck/public/adhoc/feb26_20/ghiasi_3ck_adhoc_01_022620.pdf
- Discussed the tradeoff of package/channel coverage vs equalization.
- Discussed the relevance of DFE burst error as presented.

Comment Discussion:
"Handling Open Comments", Beth Kochuparambil
See: http://www.ieee802.org/3/ck/public/adhoc/feb26_20/kochuparambil_3ck_adhoc_01_022620.pdf
- Version '01a' was used to assist in facilitating the discussion, but cannot be posted on the ad hoc page. Beth noted that '_01a_' is exactly the same as _01_ except with clips from the draft inserted where indicated. Page numbers remain intact between the two.
- CA COM, Comments #10016, #10017, #10018
  - It was noted that this comment does NOT include C0 and C1, however parameters should be adopted together. (link comments in the response)
  - One participant voiced hesitation based on an unknown impact on CA.
  - Consensus was observed to move forward with the suggested remedies.
- C2M VEC wording, Comments #10061, #10062
  - Commenter explained what modification does to the Module Stressed Input Test procedure
  - Consensus was observed through no objection

- C2M: Np/Dp Values, Comments #10165, #10166
    - Lively discussion ensued of purpose and impact of these values
    - There was confusion happening of the purpose of the linear fit pulse in this procedure.
    - There was no consensus to make a change at this time.
- C2M far-end pre-cursor ISI, Comment #10144
    - Discussed the background of this term and why it was included in the draft.
    - Several seemed unsure of its necessity, but hesitated to remove it without further study.
    - No consensus to make a change to the draft - more evidence is encouraged
- Copper Cable Adaptation During Operation, Comment #10247
    - Tabled; ran out of time.

Chair reminded participants of the review/commenting deadline, upcoming ad hocs, as well as deadlines for March Plenary.

The ad hoc meeting ended at ~9:00 am Pacific.

List of attendees (captured from Webex tool)

Name	Affiliation	Employed by
Adam Healey	Broadcom	Broadcom
Alan Kinningham	I-PEX	I-PEX
Alex Haser	Molex	Molex
Ali Ghiasi	Ghiasi Quantum/Inphi	Ghiasi Quantum
Andy Zambell	Amphenol	Amphenol
Arthur Marris	Cadence	Cadence
Athos Kasapi	Cadence	Cadence
Ayal Shoval	Synopsys	Synopsys
Beth Kochuparambil	Cisco	Cisco
Bill Kirkland	Semtech	Semtech
Bo Zhang	Inphi	Inphi
Brandon Gore	Samtec	Samtec
Brandon Wong	Samtec	Samtec
Bruce Champion	TE Connectivity	TE Connectivity
Chien-Ping Kao	Intel	Intel
Clint Walker	Alphawave IP	Alphawave IP
David Malicoat	Senko	Malicoat Networking Solutions
David Rennie	Synopsys	Synopsys
Ed Ulrichs	Source Photonics	Source Photonics

Femi Akinwale	Intel	Intel
Fernando DeBerardinis	eSilicon	eSilicon
Gary Nicholl	Cisco	Cisco
Greg LeCheminant	Keysight	Keysight Technologies
Greg McSorley	Amphenol	Amphenol
Hansel Dsilva (Achronix Semiconductor)	Achronix	Achronix
Howard Heck	Intel	Intel
Hsinho Wu	Intel	Intel
Inho Kim	Marvell	Marvell
James Weaver	Arista	Arista
Jane Lim	Cisco	Cisco
Jeffery Maki	Juniper	Juniper
John Calvin	Keysight	Keysight
John Ewen	Globalfoundries	Globalfoundries
Karen Liu	Kaiam	Kaiam
Liav Ben-Artsi	Marvell	Marvell
Marika Immonen	TTM	TTM
Masashi Shimanouchi	Intel	Intel
Matt Brown	Huawei	Huawei
Mau-Lin Wu	Mediatek	Mediatek
Mike Dudek	Marvell	Marvell
Nathan Tracy	TE Connectivity	TE Connectivity

Phil Sun	Credo	Credo
Piers Dawe	Mellanox	Mellanox
Rich Mellitz	Samtec	Samtec
Rick Rabinovich	Keysight	Keysight
Sam Kocsis	Amphenol	Amphenol
Scott Sommers	Molex	Molex
Steve Sekel	Keysight	Keysight
Tao Hu	Marvell	Marvell
Terry Little	Foxconn Interconnect Technology	Foxconn Interconnect Technology
Tom Palkert	Molex/Macom	Molex/Macom
Upen Kareti	Cisco	Cisco
Yasuo Hidaka	Credo	Credo