

## IEEE P802.3ck Telephonic Interim meeting – April 8, 2020

Prepared by Kent Lusted and Beth Kochuparambil

### Proposed Agenda:

- Approval of the Agenda
- 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
- Ground Rules and operations reminder
- Next Steps for 3ck
- Comment Resolution
  - TP1a Eye Opening Criteria \*\*
    - ghiasi\_3ck\_01\_0320 (TP1a VEC, ESMW, CTF only)
    - TP1a VEC value: #96, 11, 154
    - Optimization parameter: #10066
    - TP1a ESMW value: #95
    - Capture method: #137
  - C2M Misc.
    - Dp/Mp: #10165, 10166
    - RR CTF range: #114, 10157 (refer to earlier presentation - ghiasi\_3ck\_01\_0320)
    - RR CTF step size: #10143
    - COM: #72 (refer to sun\_3ck\_01a\_0120 - slides 29&30)
    - IL: #71
    - BER: #92
    - Jitter profile: #108, 107
    - Loss value: #110
    - ghiasi\_03 (CMRL, RLCD only – slides 5&10?)
    - CMRL: #127, 126
    - RLCD: #119, 125, 124
    - Jitter wording: #10063

Presentations posted at: [http://www.ieee802.org/3/ck/public/20\\_03/index.html](http://www.ieee802.org/3/ck/public/20_03/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/20\\_03/agenda\\_3ck\\_05\\_0320.pdf](http://www.ieee802.org/3/ck/public/20_03/agenda_3ck_05_0320.pdf)

The 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.

Presented the proposed agenda. Chair asked if there were objections or modifications to the agenda. No one responded.

**Motion #1:**

Move to approve the agenda.

M: Mike Dudek

S: Rich Mellitz

Motion passed by voice without opposition

Chair reminded participants of the IEEE patent policy. She asked if anyone was unfamiliar with the IEEE patent policy. (See: <http://www.ieee802.org/3/patent.html> ) No one responded. Chair made the call for patents. No one responded.

Reminded participants of the IEEE copyright policy. She asked if anyone was unfamiliar with the copyright policy. (See: <https://standards.ieee.org/ipr/index.html> ) No one responded.

Reminded participants of the IEEE Participation Requirements and showed the slide with the Participation requirements. She asked people to leave the call if unwilling to abide by this policy.

Chair reviewed the expectations and ground rules for the telephonic interim meetings.

## Agenda Items

### P802.3ck Update, Beth Kochuparambil

See: [http://www.ieee802.org/3/ck/public/20\\_03/agenda\\_3ck\\_05\\_0320.pdf](http://www.ieee802.org/3/ck/public/20_03/agenda_3ck_05_0320.pdf)

- Making good progress. Goal is to close the remaining Draft 1.1 comments by May 6th
- 3 new telephonic interims were announced for April 22, April 29, May 6... 7-10am PDT (see: <http://www.ieee802.org/3/100GEL/email/msg00431.html>)
- A 3rd bucket (NC\_Bucket2) is posted (see: [http://www.ieee802.org/3/ck/comments/8023ck\\_D1p1\\_comments\\_proposed\\_NCbucket2.pdf](http://www.ieee802.org/3/ck/comments/8023ck_D1p1_comments_proposed_NCbucket2.pdf) )
- Deadline to remove anything from NC\_Bucket2 is Tuesday, April 21, 2020 AOE.
- Plan to motion closing of the buckets in April 22 Telephonic Interim
- C2M VEC discussion today would be focused on TP1a, closing related comments may be tabled if consensus is not reached due to this being a big ticket item.

Comments #23, 6, 8, 138, 43, 44, 45, 152 were requested to come from the original NC\_Bucket. Requests for removal of IR bucket comments are still under discussion. Matt Brown withdrew comment #52 via email notification.

Chair announced that although we are not approving minutes at this time, there were changes requested of the minutes from March 30 and April 1. Updated minutes are posted.

Chair noted that comment #130 was noted as AIP, when it should have been rejected given the discussion and straw poll at the last meeting. She asked if there was objection to changing this closed comment. There was a request to display the comment on the floor. There was no objection to reopen the comment and correct the response to reject.

The Chief Editor reviewed the comment agenda for the day. (see: [http://www.ieee802.org/3/ck/public/20\\_03/agenda\\_3ck\\_05\\_0320mini.pdf](http://www.ieee802.org/3/ck/public/20_03/agenda_3ck_05_0320mini.pdf) ) Chief Editor summarized the progress to date on comment resolution and reminded participants to review the bucket comments posted to the website.

Comment resolution began.

Chief Editor reviewed C2M Consensus Discussion (see: [http://www.ieee802.org/3/ck/public/20\\_03/brown\\_3ck\\_03\\_0320.pdf](http://www.ieee802.org/3/ck/public/20_03/brown_3ck_03_0320.pdf) ) that summarized the C2M related comments. While reviewing comment #11, the commenter indicated that he was satisfied with keeping Eye Height at 15mV and the focus on VEC.

#### **Presentation #1:**

“C2M Methodology and Limits at TP1a, TP4, and TP5”, Ali Ghiasi

See: [http://www.ieee802.org/3/ck/public/20\\_03/ghiasi\\_3ck\\_01\\_0320.pdf](http://www.ieee802.org/3/ck/public/20_03/ghiasi_3ck_01_0320.pdf)

- Discussed the results on slide 6.
- Discussed the connector type used in the channels.

Held discussion on C2M TP1a VEC values summarized in brown\_3ck\_03\_0320 slide 3.  
Discussed the impact of passing vs. failing the contributed channels based on VEC value.  
Discussed the impact of VEC on receiver power.

#### **Straw Poll #1:** (direction check on VEC threshold, comment 96)

I would support the following value for maximum VEC value at TP1a: (chicago rules)

A: 7.5 dB

B: 8.25 dB

C: 9 dB

D: 10 dB

E: Abstain

A: 17, B: 17, C: 25, D: 11, E: 16

#### **Straw Poll #2:** (direction check on VEC threshold, comment 96)

I would support the following value for maximum VEC value at TP1a: (select 1)

A: 7.5 dB

B: 8.25 dB

C: 9 dB

D: 10 dB  
E: Abstain  
A: 10, B: 7, C: 18, D: 1, E: 15

**Straw Poll #3:** (C2M VEC threshold)

*For use of closing comment #96. Details in the comment database.*

Yes: 20 No: 17 Abstain: 12

Chair noted that she heard a repeating theme for more information to close a comment; she points out that we have many comments to close within the telephonic interim series. Offline work and consensus building is encouraged.

Chair noted that there was no meeting on 15 April 2020. The next meeting is 22 April 2020.

The telephonic interim ended at ~9:05 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/Inphi
Arthur Marris	Cadence	Cadence
Ayal Shoval	Synopsys	Synopsys
Beth Kochuparambil	Cisco	Cisco
Biman Chattopadhyay	Synopsys	Synopsys
Brandon Gore	Samtec	Samtec
Bruce Champion	TE Connectivity	TE Connectivity
Burrell Best	Samtec	Samtec
Champion Kao	Intel	Intel
Chan Chih (David) Chen	Applied Optoelectronics	Applied Optoelectronics
Chris DiMinico	PHY-SI	PHY-SI
Clint Walker	Alphawave IP	Alphawave IP
David Malicoat	Senko	Independent
David Ofelt	Juniper	Juniper
David Rennie	Synopsys	Synopsys
Ed Frlan	Semtech	Semtech
Gary Nicholl	Cisco	Cisco
Geoff Zhang	Xilinx	Xilinx

George Luk	Credo	Credo
Greg LeCheminant	Keysight	Keysight Technologies
Greg McSorley	Amphenol	Amphenol
Hansel Dsilva	Achronix	Achronix
Hormoz Djahanshahi	Microchip	Microchip
Howard Heck	Intel	Intel
Inho Kim	Marvell	Marvell
James Weaver	Arista	Arista
Jane Lim	Cisco	Cisco
Jeff Slavick	Broadcom	Broadcom
Jeffery Maki	Juniper	Juniper
Jeremy Stephens	Microsoft	Microsoft
Jinhua Chen	Luxshare ICT	Luxshare ICT
John Calvin	Keysight	Keysight
John Ewen	Marvell	Marvell
Joshua Kim	Hirose	Hirose
Kent Lusted	Intel	Intel
Liav Ben-Artzi	Marvell	Marvell
Mark Kimber	Semtech	Semtech
Matt Brown	Huawei	Huawei
Mau-Lin Wu	Mediatek	Mediatek
Mike Dudek	Marvell	Marvell
Mike Klempa	UNH-IOL	UNH-IOL

Mike Li	Intel	Intel
Nathan Tracy	TE Connectivity	TE Connectivity
Patrick Casher	Foxconn Interconnect Technology	Foxconn Interconnect Technology
Phil Sun	Credo	Credo
Piers Dawe	Mellanox	Mellanox
Qing Xu	Ranovus	Ranovus
Rich Mellitz	Samtec	Samtec
Rick Rabinovich	Keysight	Keysight
Sam Kocsis	Amphenol	Amphenol
Scott Irwin	Mosys	Mosys
Scott Sommers	Molex	Molex
Stephen Didde	Keysight	Keysight
Steve Sekel	Keysight	Keysight
Steve Trowbridge	Nokia	Nokia
Tao Hu	Marvell	Marvell
Terry Little	Foxconn Interconnect Technology	Foxconn Interconnect Technology
Tom Palkert	Molex/Macom	Molex/Macom
Toshiaki Sakai	Socionext	Socionext
Upen Kareti	Cisco	Cisco
Xiang He	Huawei	Huawei
Yasuo Hidaka	Credo	Credo