

IEEE P802.3ck Ad Hoc meeting – May 20, 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>
- Task Force Status
- Chief Editor's Report
- 3ck Technical Presentations* –
 - “COM 2.93 Update” – Rich Mellitz
 - “Transmitter Control for the AUI-C2C Interfaces” – Adee Ran
 - “Input Referred Noise Consideration” – John Calvin (late)

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

Meeting began at ~07:00 a.m. Pacific by Beth Kochuparambil.

Meeting began with the agenda presentation:

http://www.ieee802.org/3/ck/public/adhoc/may20_20/agenda_052020_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.

Presented the proposed agenda. Chair noted that the presentation request from John Calvin was late. Chair asked if there was opposition to the proposed agenda. No one responded. The agenda was approved by the ad hoc.

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

Reminded participants of the IEEE copyright policy. 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. 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/may20_20/agenda_052020_3ck_adhoc.pdf

- Draft 1.2 review open until 13 June 2020
- Upcoming ad hocs are scheduled for 27 May, 10 June, 17 June.
- IEEE 802.3 Working Group teleconference interim meeting occurs on 21 May 2020
- Chair noted the Task Force March telephonic interims occurred over 8 weeks. Discussed the advantages and disadvantages of the recent OIF online meeting series related to meeting duration, progress, etc.

Editorial Update, Matt Brown

See: http://www.ieee802.org/3/ck/public/adhoc/may20_20/brown_3ck_adhoc_01_052020.pdf

- It was noted that more channels on module-to-host are needed for analysis.
- Discussed the need to stabilize several methodologies before choosing parameter values.
- Discussed the requirements to move to Draft 2.0 and Working Group ballot.

Presentation #1:

“COM 2.93 Update”, Rich Mellitz

See: http://www.ieee802.org/3/ck/public/adhoc/may20_20/mellitz_3ck_adhoc_01a_052020.pdf

- Version 2.93 was posted at http://www.ieee802.org/3/ck/public/tools/tools/mellitz_3ck_adhoc_01_052020_COM2p93.zip
- Discussed several parameters that change behavior with the COM changes.
- There was a request for more details on the short channel issue addressed in v2.93 COM. Bill Kirkland provided a verbal summary.

Presentation #2:

“Transmitter Control for the AUI-C2C Interfaces”, Adee Ran

See: http://www.ieee802.org/3/ck/public/adhoc/may20_20/ran_3ck_adhoc_01a_052020.pdf

- updated version ‘01a’ with change to supporters list
- Discussed and compared solution option A (“out of band”) vs. B (“in band”).
- Discussed the application of C2C as primarily to extend the reach to a CR or C2M interface.

Presentation #3:

“IEEE 802.3ck Input Referred Noise Consideration”, John Calvin

See: http://www.ieee802.org/3/ck/public/adhoc/may20_20/calvin_3ck_adhoc_01_052020.pdf

- Discussed the ability to measure the noise term as it related to different instrument types.
- It was noted that there may be an issue measuring SNDR for C2M on a real-time scope.
- The analysis assumes 1.28mV RMS based on η_0 of $4.1e-8V^2/GHz$

Chair reminded participants of ad hoc next week (27 May 2020); presentation requests due by end of Monday AoE. Chair also noted that the review of Draft 1.2 was open, look at the editorial report for work items.

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
Adee Ran	Intel	Intel
Alan Kinningham	I-PEX	I-PEX
Alex Haser	Molex	Molex
Ali Ghiasi	Ghiasi Quantum/Inphi	Ghiasi Quantum/Inphi
Arthur Marris	Cadence	Cadence
Arturo Pachon	Cisco	Cisco
Beth Kochuparambil	Cisco	Cisco
Bill Kirkland	Semtech	Semtech
Biman Chattopadhyay	Synopsys	Synopsys
Brandon Gore	Samtec	Samtec
Bruce Champion	TE Connectivity	TE Connectivity
Burrell Best	Samtec	Samtec
Champion (Chien Ping) Kao	Intel	Intel
Chan Chih (David) Chen	Applied Optoelectronics	Applied Optoelectronics
Chris DiMinico	PHY-SI	PHY-SI
Clint Walker	Alphawave IP	Alphawave IP
David Chalupsky	Intel	Intel
David Malicoat	Senko	Independent
David Ofelt	Juniper	Juniper
David Rennie	Synopsys	Synopsys

Derek Cassidy	BT	BT
Ed Frlan	Semtech	Semtech
Frank Chang	Source Photonics	Source Photonics
Frank Chang	Inphi	Inphi
Frank Lambrecht	Gigamon	Gigamon
Geoff Zhang	Xilinx	Xilinx
George Luk	Credo	Credo
Greg LeCheminant	Keysight	Keysight Technologies
Greg McSorley	Amphenol	Amphenol
Hansel Dsilva	Achronix	Achronix
Howard Heck	Intel	Intel
Hsinho Wu	Intel	Intel
James Weaver	Arista	Arista
Jane Lim	Cisco	Cisco
Jeff Slavick	Broadcom	Broadcom
Jeffery Maki	Juniper	Juniper
Jeremy Stephens	Microsoft	Microsoft
John Calvin	Keysight	Keysight
John Ewen	Marvell	Marvell
Joshua Kim	Hirose	Hirose
Kent Lusted	Intel	Intel
Kumaran Krishnasamy	Broadcom	Broadcom
Liav Ben-Artzi	Marvell	Marvell

Marika Immonen	TTM	TTM
Mark Kimber	Semtech	Semtech
Masashi Shimanouchi	Intel	Intel
Matt Brown	Huawei	Huawei
Mau-Lin Wu	Mediatek	Mediatek
Mike Dudek	Marvell	Marvell
Mike Klempa	UNH-IOL	UNH-IOL
Mike Li	Intel	Intel
Phil Sun	Credo	Credo
Piers Dawe	Mellanox	Mellanox
Priyank Shukla	Synopsys	Synopsys
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 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

Xiang He	Huawei	Huawei
Yasuo Hidaka	Credo	Credo
Zvi Rechtman	Mellanox	Mellanox