IEEE P802.3ck Ad Hoc meeting –

August 28, 2019

Prepared by Kent Lusted and Shawn Nicholl

Proposed Agenda:

- Approval of the Agenda
- Approve 14 August 2019 ad hoc minutes
- IEEE Patent Policy reminder:
  - http://www.ieee802.org/3/patent.html
- IEEE Participation Requirements reminder
- Logistics for September interim meeting
- .3ck Ad Hoc –
  - "Examples of C2C Channels With Impairments 10dB 16dB 18dB 20dB Test Cases", Rick Rabinovich
  - "100G C2M Simulations", Femi Akinwale

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

Meeting began at ~7:00 a.m. Pacific by Kent Lusted.

Meeting began with the agenda presentation:
http://www.ieee802.org/3/ck/public/adhoc/aug28_19/agenda_082819_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. No one responded. The agenda was approved by the ad hoc.

The ad hoc chair noted that the August 14, 2019 minutes were posted. He asked if there were corrections or modifications. No one responded. Minutes were approved by the Task Force.

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

P802.3ck Update, Kent Lusted
See: http://www.ieee802.org/3/ck/public/adhoc/aug28_19/agenda_082819_3ck_adhoc.pdf

- Task Force will meet week of September 9, 2019 in Indianapolis, IN, USA. P802.3ck is meeting Wednesday through Friday.
- Goal is to adopt additional baselines to allow for creation of draft 1.0
- Presentation requests are due Friday, August 30th AOE
- Presentation submissions are due by 5:00pm PDT Tuesday, Sept 3rd.
- There is no social event during the September Interim
- There was a request to avoid scheduling C2M and FEC discussions for Wed morning.

Presentation #1:
"Examples of C2C Channels With Impairments 10dB 16dB 18dB 20dB Test Cases", Rick Rabinovich
See: http://www.ieee802.org/3/ck/public/adhoc/aug28_19/rabinovich_3ck_adhoc_01_082819.pdf

- There was a request to update the presentation (eg. slide 9) to emphasize that these results are for the set of channels shown, and results may be different for other channels
- It was noted that the DER assumption was 1E-5 with CL91 FEC.
- It was noted that 25ps rise time was used; Request to repeat the experiments using 10ps
- Discussed going beyond 20dB IL. There was concern that glass weave and manufacturing variability were not included in the analysis.
- The adhoc chair noted that all four channels are posted to the task force website in a single zip file under Chip to Chip Channels section of the Tools and Channels page

Presentation #2:
"100G C2M Simulations", Femi Akinwale
See: http://www.ieee802.org/3/ck/public/adhoc/aug28_19/akinwale_3ck_adhoc_01a_08282019.pdf

- On slide 5, the x-axis was PCB length not package length. The x-axis lengths was inches
- It was noted that the analysis includes the Tx package (host ASIC). Test point is at TP1a. There is no 3rd party PHY in the analysis
- Request to include a slide showing the COM spreadsheet as a reference. Author agreed to give ad hoc Chair '01a' version.
- Chair noted that all three sets of channel are posted in separate zip files under the Chip-to-Module Channels section of the Tools and Channels page

The ad hoc meeting ended at ~8:20 am Pacific.

List of attendees (captured from Webex tool)

Name	Affiliation
Adam Healey	Broadcom
Adee Ran	Intel
Akinwale, Oluwafemi	Intel
Alex Haser (Molex)	Molex
Ali G	Ghiasi Quantum
Arthur Marris (Cadence)	Cadence
Athos Kasapi	Cadence
Ayal Shoval	Synopsys
Bo	Inphi
Brandon Gore	Samtec
Burrell	Samtec
Champion Kao	Intel
Clint Walker	Awaveip
david malicoat	Senko
Frank	Source Photonics
Gary Nicholl	Cisco
Greg McSorley	Amphenol-Highspeed
Howard Heck	Intel
Hsinho Wu	Intel
John DAmbrosia	Futurewei
Jeff Slavick	Broadcom

Jeff Twombly	Credosemi
Jeffery Maki	Juniper
Jeremy	Intel
John Ewen	Averasemi
Kent Lusted	Intel
Leon	Huawei
Mark Kimber	Semtech
Masashi	Intel
Matt Brown	Independent
Mau-Lin Wu	Mediatek
Mike Dudek	Marvell
Nathan Tracy	TE
Phil Sun	Credosemi
Piers	Mellanox
pirooz tooyserkani	Cisco
Raj Hegde	Broadcom
Rich	Samtec
Rick Rabinovich	Keysight
Scott Sommers	Molex
Shawn Nicholl (Xilinx)	Xilinx
Shimon	Not available
Stephen Didde (Keysight)	Keysight

Steve Baumgartner	Averasemi
Steve Trowbridge (Nokia)	Nokia
Tom	Molex/MACOM
Xiang	Huawei
Yasuo Hidaka	Credosemi
Yuchun Lu	Huawei