IEEE P802.3ck Ad Hoc meeting –
August 29, 2018

Prepared by Kent Lusted

Proposed Agenda:

- Approval of the Agenda
- Approve 25 July and 15 August 2018 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 –
    - TF update – Kent Lusted (5 mins)
    - Error Analysis update - Pete Anslow (30 mins)
    - 100G SERDES Power -- Phil Sun (20 mins)
    - Initial C2M results and the Choice of CTLE -- Ali Ghiasi (20 mins)
    - Reference ADC-DSP Receiver Model for COM – Yuchun(Louis) Lu (20 mins)

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

Meeting began at ~7:05 a.m. Pacific by Kent Lusted.

Meeting began with the agenda presentation:
http://www.ieee802.org/3/ck/public/adhoc/aug29_18/agenda_180829_3ck_adhoc.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 P802.3cd 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.

Asked if there were comments regarding the posted minutes for the 25 July and August 15 ad hoc meeting. No one responded. 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 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 Task Force update, Kent Lusted
- Presentation requests are due Friday, August 31, AoE.
- Presentation submissions are due 5pm Pacific, Wednesday, 5 September.
- Task Force is scheduled to meet on Wednesday, 12 September and Thursday 13 September at the September interim in Spokane, WA, USA.

Presentation #1:
"RS(544,514) FEC performance with 4:1 interleaving (updated) " – Pete Anslow
See: http://www.ieee802.org/3/ck/public/adhoc/aug29_18/anslow_3ck_adhoc_01_082918.pdf
- The current DFE model only has 5 taps, not the large number of taps on slide 6.
- The error modeling assumption is a single level error per slide 18. Pre-coding helps with the worst case burst error pattern.

Presentation #2:
"100G SERDES Power" –   Phil Sun
See: http://www.ieee802.org/3/ck/public/adhoc/aug29_18/sun_3ck_adhoc_01_082918.pdf
- Discussed some challenges with the link training process to a module.
- There was a request to use a more advanced process node in the analysis. The author used information available in public papers.
- There was a request to expand on the details for the ADC power derivation on slide 8.

Presentation #3:
"Initial C2M results and the Choice of CTLE" –   Ali Ghiasi
See: http://www.ieee802.org/3/ck/public/adhoc/aug29_18/ghiasi_3ck_adhoc_01_082918.pdf
- On slide 3, gdc2 range is incorrect. Author will send corrected version '01a'.
- On slide 8, some entries were incorrect. Author will correct in version '01a'.

Presentation #4:
"Reference ADC-DSP Receiver Model for COM" –   Yunchun Louis Lu
See: http://www.ieee802.org/3/ck/public/adhoc/aug29_18/lu_3ck_adhoc_01_082918.pdf
- Discussed the use of COM margin as a RX implementation penalty for the quantization noise.
- Clarifying questions were asked and answered.
- There was a request for a comparison of the margin on many different channels.

Kent noted that presentation requests are due Friday, August 31, AoE. Presentation submissions are due 5pm Pacific, Wednesday, 5 September.

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

List of attendees (captured from Webex tool)

Name	Company
Adam Healey	broadcom.com
Adee Ran	intel.com
Adrian Butter	globalfoundries
Alex Haser (Molex)	molex.com
Ali Ghiasi	n/a
Andy	n/a
arturo pachon (TE)	te.com
bill kirkland	semtech.com
Brian	kandou.com
BURRELL BEST	samtec.com
Cathy Huang	huawei.com
Dan Symes	keysight.com
Dave Lewis (Lumentum)	lumentum.com
David Malicoat	Senko, Aquantia
David Ofelt	juniper.net
David Piehler [Dell EMC]	dell.com
David Tetzlaff	rockleyphotonic
DEAN	marvell.com
Frank Lambrecht (Gigamon Inc.)	n/a
Gary Nicholl	cisco.com
geoff zhang	xilinx.com
Greg McSorley	amphenol-highsp
Hai-Feng Liu	intel.com
Hormoz Djahanshahi (Microsemi)	microchip.com
Hsinho Wu	intel.com
Inho Kim	marvell.com
Jane Lim	cisco.com
Jay	intel.com
Jeff Philips	teledyne.com
Jeff Slavick	broadcom.com
Jeff Twombly	credosemi.com
Jeffery Maki	juniper.net
Jim Nadolny	samtec.com
John Calvin	vtmgroup.com
John Ewen	globalfoundries
Ken Jackson (Sumitomo)	sei-device.com
kenghua	hpe.com
Kent Lusted	intel.com

Lawrence Fung	finisar.com
Marcus	huawei.com
Margaret Johnston	cadence.com
Mark Nowell	cisco.com
martin white	cavium.com
Matt Brown	macom.com
Mau-Lin Wu	mediatek.com
Mike Dudek	cavium.com
Mike Li	intel.com
Nathan Tracy (TE)	te.com
NELSON MURGA	keysight.com
Pete Anslow (Ciena)	ciena.com
Phil Sun	credosemi.com
Piers	mellanox.com
RICHARD MELLITZ	samtec.com
Rick Rabinovich	keysight.com
Robert Callan	globalfoundries
SAMUEL KOCSIS	amphenol-tcs.co
Scott Sommers	molex.com
Shimon	axalume.com
Steve Parker	globalfoundries
Steve Sekel (Keysight)	keysight.com
Steve Trowbridge (Nokia)	nokia.com
Steven Baumgartner	globalfoundries
Tom Palkert	molex.com
Toshiaki Sakai (Socionext)	socionext.com
Upen Kareti	cisco.com
Vivek Telang	broadcom.com
Xiang He	huawei.com
Yan Zhuang	huawei.com
Yasuo Hidaka (Independent)	n/a
Yuchun Lu	huawei.com
Zvi Rechtman	mellanox.com