

## IEEE P802.3ck Ad Hoc meeting – December 12, 2018

Prepared by Kent Lusted

### Proposed Agenda:

- Approval of the Agenda
- Approve 5 December ad hoc minutes
- IEEE Patent Policy reminder:
  - <http://www.ieee802.org/3/patent.html>
- IEEE Participation Requirements reminder
- Logistics for January Interim meeting
- .3ck Ad Hoc –
  - “COM Simulation for 100G KR/CR Channels”, Yasuo Hidaka
  - “C2M Status - December 2018”, Kent Lusted
  - “PKG Model for 802.3ck COM”, Liav Ben-Artzi
  - “Investigation of Baseline Reference Receivers”, Yunchun Lu

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

Meeting began at ~7:03 a.m. Pacific by Beth Kochuparambil.

Meeting began with the agenda presentation:

[http://www.ieee802.org/3/ck/public/adhoc/dec12\\_18/agenda\\_181212\\_3ck\\_adhoc.pdf](http://www.ieee802.org/3/ck/public/adhoc/dec12_18/agenda_181212_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.

Showed the links to the IEEE P802.3ck Task Force ad hoc page and the email reflector.

Presented the proposed agenda and asked if there was objection as written. There was a request to move Liav Ben-Artzi’s presentation to be earlier in the agenda. There was no objection. The agenda was approved by the ad hoc.

Asked if there were comments regarding the posted minutes for the December 5 ad hoc meeting. Chair noted that the affiliation for Yasuo Hidaka was incorrect and would be updated. No one responded. The minutes were approved by the ad hoc.

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 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 Logistics for January Interim, Beth Kochuparambil**

- TF meets the week of January 14, 2019 in Long Beach, CA, USA. TF meets Tuesday afternoon thru end of Thursday.
- Notable dates: January 4th (Fri) AOE - Presentation Requests due. January 9th (Wed) 5pm PST (error in deck) - Presentations due

### **Presentation #1:**

“PKG Model for 802.3ck COM”, Liav Ben-Artzi

See: [http://www.ieee802.org/3/ck/public/adhoc/dec12\\_18/benartsi\\_3ck\\_adhoc\\_01\\_121218.pdf](http://www.ieee802.org/3/ck/public/adhoc/dec12_18/benartsi_3ck_adhoc_01_121218.pdf)

- The proposed model parameters on slide 4 was suggested to be the baseline for future COM result reporting.

### **Presentation #2:**

“COM Simulation for 100G KR/CR Channels”, Yasuo Hidaka

See: [http://www.ieee802.org/3/ck/public/adhoc/dec12\\_18/hidaka\\_3ck\\_adhoc\\_01\\_121218.pdf](http://www.ieee802.org/3/ck/public/adhoc/dec12_18/hidaka_3ck_adhoc_01_121218.pdf)

- spreadsheet available at:  
[http://www.ieee802.org/3/ck/public/adhoc/dec12\\_18/hidaka\\_3ck\\_adhoc\\_02\\_121218.zip](http://www.ieee802.org/3/ck/public/adhoc/dec12_18/hidaka_3ck_adhoc_02_121218.zip)
- Updated presentation with new features of the spreadsheet from last week.

### **Presentation #3:**

“C2M Status - December 2018”, Kent Lusted

See: [http://www.ieee802.org/3/ck/public/adhoc/dec12\\_18/lusted\\_3ck\\_adhoc\\_01\\_121218.pdf](http://www.ieee802.org/3/ck/public/adhoc/dec12_18/lusted_3ck_adhoc_01_121218.pdf)

- There was a request to add a channel decode slide to the presentation backup material.
- Discussed the proposed DFE tap limits for the C2M channels. The value limits were taken from the envelope of DFE weights from Phil Sun’s work.

### **Presentation #4:**

“Investigation of Baseline Reference Receivers”, Yunchun Lu

See: [http://www.ieee802.org/3/ck/public/adhoc/dec12\\_18/lu\\_3ck\\_adhoc\\_01a\\_121218.pdf](http://www.ieee802.org/3/ck/public/adhoc/dec12_18/lu_3ck_adhoc_01a_121218.pdf)

- Rich announced that he is working on the next version of COM with some bug fixes (most significant being on the precursor taps in RX w/FFE) as well as improvement in run time. Hopes to publish next week or Jan 2nd.
- There was a request to include the absolute tap weights in the data.

- There was much discussion on the results included in the presentation.

Chair noted that Rich is working on an update to the COM tool to improve the run time and fix bugs. There is intent to update the configuration spreadsheets with the proposed package parameters given by Liav Ben-Arsti in slide 4 of

[http://www.ieee802.org/3/ck/public/adhoc/dec12\\_18/benartsi\\_3ck\\_adhoc\\_01\\_121218.pdf](http://www.ieee802.org/3/ck/public/adhoc/dec12_18/benartsi_3ck_adhoc_01_121218.pdf)

Next ad hoc is Dec 19th at 7:00 a.m. Pacific.

The ad hoc meeting ended at ~8:50 a.m. Pacific.

List of attendees (captured from Webex tool)

Name	Affiliation	Employed by
Adam Healey	Broadcom	Broadcom
Adrian Butter	Global Foundries	Global Foundries
Alex Haser	Molex	Molex
Ali Ghiasi	GhiasiQuantum LLC	GhiasiQuantum LLC
Arthur Marris	Cadence	Cadence
Arturo Pachon	TE Connectivity	TE Connectivity
Beth Kochuparambil	Cisco	Cisco
Bill Kirkland	Semtech	Semtech
Brian Holden	Kandou	Kandou
David Chen	Applied Optoelectronics	Applied Optoelectronics
David Malicoat	Senko	Malicoat Networking Solutions
David Rennie	Synopsys	Synopsys
Dean Wallace	Marvell	Marvell
Frank Lambrecht	Gigamon	Gigamon
Gary Nicholl	Cisco	Cisco
Geoff Zhang	Xilinx	Xilinx
Greg LeCheminant	Keysight	Keysight Technologies
Howard Heck	Intel	Intel

Inho Kim	Marvell	Marvell
Jane Lim	Cisco	Cisco
Jayen Desai	Intel	Intel
Jeff Twombly	Credo	Credo
Jeffery Maki	Juniper	Juniper
Jeremy Stephens	Intel	Intel
JOHN DILLARD	Keysight	Keysight
John Ewen	Globalfoundries	Globalfoundries
Karen Liu	Kaiam	Kaiam
Kent Lusted	Intel	Intel
Liav Ben-Artzi	Marvell	Marvell
Margaret	Cadence	Cadence
Matt Brown	Macom	Macom
Mau-Lin Wu	Mediatek	Mediatek
Mike Dudek	Marvell	Marvell
Nathan Tracy	TE Connectivity	TE Connectivity
Pete Anslow	Ciena	Ciena
Phil Sun	Credo	Credo
Piers Dawe	Mellanox	Mellanox
Pirooz Tooyserkani	Cisco	Cisco
Raymond Nering	Cisco	Cisco
Rich Mellitz	Samtec	Samtec
Rick Rabinovich	Keysight	IXIA

Rita Horner	Synopsys	Synopsys
Rob Callan	Global Foundries	Global Foundries
Sam Kocsis	Amphenol	Amphenol
Scott Sommers	Molex	Molex
Shawn Nicholl	Xilinx	Xilinx
Shimon	Axalume	Axalume
Stephen	Keysight	Keysight
Steve Sekel	Keysight	Keysight
Tao Hu	Marvell	Marvell
Tom Palkert	Molex/Macom	Molex/Macom
Upen Kareti	Cisco	Cisco
Vittal Balasubramanian	Innovium	Innovium
Xiang	Huawei	Huawei
Yan Zhuang	Huawei	Huawei
Yang Zhiwei	ZTE	ZTE
Yasuo Hidaka	Credo	Credo
Yuchun(Louis) Lu	Huawei	Huawei