

IEEE P802.3ck Ad Hoc meeting – July 14, 2021

Prepared by Beth Kochuparambil

Proposed Agenda:

- Approval of the Agenda
- Approval of the June 30th Ad Hoc minutes:
https://www.ieee802.org/3/ck/public/adhoc/jun30_21/minutes_063021_3ck_adhoc.pdf
- IEEE Patent Policy reminder (see below for links)
- IEEE Copyright reminder (see below for link)
- IEEE Participation Requirements reminder (see below for link)
- Task Force Status
- 3ck Technical Presentations
 - “Discussion on Np for TX Output and RX Interference Tests”, Mau-Lin Wu
 - “Insertion Loss Terminology”, Matt Brown
 - “The Need for an Additional Tx specification for 100Gbase KR”, Mike Dudek
 - “CR Asymmetric Host Discussion”, Beth Kochuparambil

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:

https://www.ieee802.org/3/ck/public/adhoc/jun30_21/agenda_063021_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. She also indicated that attendance was to be taken in 2 ways: webex participants list will be used for attendance listed in the minutes while IMAT would be used for working group attendance records.

Presented the proposed agenda. Chair asked if there was modification or opposition to the agenda. No one responded. The agenda was approved by the ad hoc.

Beth noted that Piers’ late presentation would be inserted into a portion of Beth’s CR presentation slot, if allowed. No one objected to seeing the late presentation. Chair clarified that presentations for today are in the Task Force Ad Hoc page. Next week we will move into comment resolution and presentations/content will be found on the July webpage.

The minutes for May/D2.0 comment resolution set of meetings were posted to the website. Beth asked if there were corrections or modifications. No one responded. Minutes were approved.

Chair reviewed the slide with the Participation requirements.

Chair asked if anyone participating had not read the copyright slide set – no one responded. Chair showed the IEEE-SA copyright slides.

Chair asked if anyone participating had not read the patent slide set – no one responded. Chair showed the patent policy slides and did the call for Potentially Essential Patents – no one responded.

Chair reviewed the ground rules.

Chair called for members of the press. No one responded.

Agenda Items

P802.3ck Update, Beth Kochuparambil

See: https://www.ieee802.org/3/ck/public/adhoc/jun30_21/agenda_063021_3ck_adhoc.pdf

- Draft 2.1 Working Group ballot recirculation closes on Saturday, 3 July 2021.
- Comment resolution meetings are to be announced, but noted that ALL presentations on D2.1 are due 12 July 2021 AOE
- Reminder you must register for the July virtual plenary which runs July 12-22, 2021

Mike D requested to switch presentation slots with Matt Brown due to similar topic. No objection.

Chair reminded participants to sign into IMAT for plenary attendance records.

Presentation #1:

“Discussion on N_p for TX Output and RX Interference Tests”, Mau-Lin Wu

See: https://www.ieee802.org/3/ck/public/adhoc/july14_21/wu_3ck_adhoc_01b_071421.pdf

- This is an updated presentation. There was no objection to see the updated presentation “01b.”
- Discussed validity and impact of N_p value change
- Concern was raised about allowing transmitter with ISI after >29 UI which receivers are not expected to handle

Presentation #2:

“The need for an additional Tx specification for 100Gbase-KR”, Mike Dudek

See: https://www.ieee802.org/3/ck/public/21_07/dudek_3ck_01_0721.pdf

- Discussed TX test fixture impacts to the methodology
- Discussed Np settings for the proposed residual ISI
- Discussed coverage of previous methodologies such as SNR_ISI & ERL
- Complexity of this solution and impact of adding a new specification was acknowledged, however the potential need was also recognized

Presentation #3:

“Insertion Loss Terminology”, Matt Brown

See: https://www.ieee802.org/3/ck/public/adhoc/july14_21/brown_3ck_adhoc_01_071421.pdf

- Discussed understanding the assumption of ports in the suggested terminology
- Concerns voiced about understanding the terms of conversion loss

Presentation #4:

“Improving the CR Loss Budget”, Piers Dawe

See: https://www.ieee802.org/3/ck/public/adhoc/july14_21/dawe_3ck_adhoc_01a_071421.pdf

- This is an updated presentation. There was no objection to see the updated presentation “01a.”
- Concerns about broad market potential were voiced
- Clarifying what would be needed to make this a full proposal

Presentation #5:

“CR Asymmetric Host Discussion”, Beth Kochuparambil

See:

https://www.ieee802.org/3/ck/public/adhoc/july14_21/kochuparambil_3ck_adhoc_01b_071421.pdf

- Presentation led directly into straw poll discussion

Straw Poll #1:

At this time, I support a new pair of CR port types with reduced host insertion loss limit on one end (e.g., NIC) and increased host loss limit on the other end (e.g., switch) similar to dawe_3ck_adhoc_01_071421.

Yes	28
No	26
Abstain	18

Chair reminded participants to sign into IMAT for plenary attendance records.

Beth encouraged use of the reflector and offline discussions. She noted the next meeting is July 21 in which draft 2.1 comment resolution will begin.

The ad hoc meeting ended at ~9:05 am Pacific.

List of attendees (captured from Webex tool)

Name	Affiliation	Employed by
Adam Healey	Broadcom	Broadcom
Adee Ran	Cisco	Cisco
Alan Kinningham	I-PEX	I-PEX
Alex Haser	Molex	Molex
Ali Ghiasi	Ghiasi Quantum/Inphi	Ghiasi Quantum/Inphi
Arthur Marris	Cadence	Cadence
Ayal Shoal	Synopsys	Synopsys
Ayla Chang	Huawei	Huawei
Beth Kochuparambil	Cisco	Cisco
Bill Kirkland	Semtech	Semtech
Brandon Gore	Samtec	Samtec
Bruce Champion	TE Connectivity	TE Connectivity
Champion (Chien Ping) Kao	Cornelis Networks	Cornelis Networks
Chan Chih (David) Chen	Applied Optoelectronics	Applied Optoelectronics
Charles Park	Juniper	Juniper
Chris DiMinico	PHY-SI	PHY-SI
Clint Walker	Alphawave IP	Alphawave IP
Daniel Koehler	Synopsys	Synopsys
Dave Estes	Spirent	Spirent

David Cassan	Alphawave IP	Alphawave IP
David Malicoat	Senko	Independent
David Ofelt	Juniper	Juniper
Dawei Fan	Huawei	Huawei
Earl Parsons	CommScope, Inc.	CommScope, Inc.
Ed Frlan	Semtech	Semtech
Ed Ulrichs	Intel	Intel
Eugene Opsasnick	Broadcom	Broadcom
Fernando Barbero	KDPOF	KDPOF
Frank Chang	Source Photonics	Source Photonics
Gary Nicholl	Cisco	Cisco
Geoff Zhang	Xilinx	Xilinx
German Feyh	Broadcom	Broadcom
Greg LeCheminant	Keysight	Keysight
Hai-Feng Liu	HG Genuine	HG Genuine
Hansel Dsilva	Achronix	Achronix
Hao Ren	Huawei	Huawei
Hessam Mohajeri	Cadence	Cadence
Hormoz Djahanshahi	Microchip	Microchip
Hormoz Djahanshahi	Microchip	Microchip
Hossein Sedarat	Ethernovia	Ethernovia
Howard Heck	Intel	Intel
James Weaver	Arista	Arista

James Young	Commscope	Commscope
Jamila J. Borda	BMW	BMW
Jane Lim	Cisco	Cisco
Jeff Slavick	Broadcom	Broadcom
Jeffery Maki	Juniper	Juniper
Jerry Pepper	Keysight	Keysight
Jim Graba	Broadcom	Broadcom
Jinhua Chen	Luxshare ICT	Luxshare ICT
Joel Goergen	Cisco Systems, Inc.	Cisco Systems, Inc.
John Calvin	Keysight	Keysight
John D'Ambrosia	Futurewei (US Subsidiary of Huawei)	Futurewei
John Ewen	Marvell	Marvell
John Yurtin	Aptiv	Aptiv
Jose Castro	Panduit	Panduit
Joshua Kim	Hirose	Hirose
Kan Tan	Tektronix	Tektronix
Karen Liu	Nubis Communications	Nubis Communications
Karl Bois	TE Connectivity	TE Connectivity
KengHua Chuang	HPE	HPE
Kumaran Krishnasamy	Broadcom	Broadcom
Kumi Omori	NEC	NEC
Liav Ben-Artzi	Marvell	Marvell

Lin Youxi – Huawei	Huawei	Huawei
Mabud Choudhury	OFS	OFS
Marco Mazzini	Cisco	Cisco
Mark Gustlin	Cisco	Cisco
Mark Kimber	Semtech	Semtech
Mark Nowell	Cisco	Cisco
Marty Gubow	Keysight	Keysight
Matt Brown	Huawei	Huawei
Mau-Lin Wu	Mediatek	Mediatek
Mike Dudek	Marvell	Marvell
Mike Klempa	Amphenol	Amphenol
Mike Li	Intel	Intel
Mike Sluyski	Cisco	Cisco
Nathan Tracy	TE Connectivity	TE Connectivity
Patrick Casher	Foxconn Interconnect	Foxconn Interconnect
Paul Brooks	Viavi	Viavi
Pavel Zivny	Tektronix	Tektronix
Pavel Zivny	Tektronix	Tektronix
Phil Sun	Credo	Credo
Piers Dawe	NVIDIA	NVIDIA
Pirooz Toyserkani	Cisco	Cisco
Priyank Shukla	Synopsys	Synopsys
Qingya She	Fujitsu	Fujitsu

Rajmohan Hegde	Broadcom	Broadcom
Raymond Nering	Cisco	Cisco
Rich Mellitz	Samtec	Samtec
Rick Rabinovich	Keysight	Keysight
Roger King	TRUMPF Photonic	TRUMPF Photonic
Ruoxu Wang	Huawei	Huawei
Sam Kocsis	Amphenol	Amphenol
Scott Sommers	Molex	Molex
Semmy Peng	Huawei	Huawei
Shawn Nicholl	Xilinx	Xilinx
Shayan Shahramian	Alphawave	Alphawave
Shimon Muller	Axalume	Axalume
SJ Yu	Foxconn Interconnect	Foxconn Interconnect
Soo Kim	IEEE SA	IEEE SA
Stephen Didde	Keysight	Keysight
Steve Sekel	Wilder Tech	Wilder Tech
Steve Trowbridge	Nokia	Nokia
Tao Hu	Marvell	Marvell
Ted Sprague	Infinera	Infinera
Terry Little	Foxconn Interconnect	Foxconn Interconnect
Thananya Baldwin	Keysight	Keysight
Tobey PR Li	Mediatek	Mediatek
Tom Huber	Nokia	Nokia

Tom Issenhuth	Huawei	Issenhuth Consulting
Tom Palkert	Macom/Samtec	Macom/Samtec
Tom Souvignier	Broadcom	Broadcom
Toshiaki Sakai	Socionext	Socionext
Upen Kareti	Cisco	Cisco
Varun Garg	Keysight	Keysight
Viet Tran	Keysight	Keysight
Vipul Bhatt	II-VI	II-VI
Xiang He	Huawei	Huawei
Xinyuan Wang	Huawei	Huawei
Yan Zhuang	Huawei	Huawei
Yasuo Hidaka	Credo	Credo
Yi Sun	OFS Optics	OFS Optics
Yong Kim	Axonne	Axonne
Yu (Helen) Xu	Huawei	Huawei
Yuichi Tsujita	Nitto	Nitto