

IEEE P802.3ck Interim meeting – January 19, 2022

Prepared by Kent Lusted

Proposed Agenda:

- Approval of the Agenda
- Approval of Dec 8 Ad Hoc minutes
- Approval of Jan 12 Interim Meeting minutes
- IEEE Patent Policy reminder
- IEEE Copyright reminder
- IEEE Participation Requirements reminder
- Task Force Status
- Chief Editor’s Report
- Next Steps
- Technical Presentation (posted)
 - “J3u Measurement for CL162”, Alex Rysin
 - “Module stressed input loss calibration and other loss curves”, Piers Dawe
 - “Mixed mode return loss limits”, Piers Dawe
 - “Common mode return loss limits”, Piers Dawe (if time allows)

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

Meeting began at ~07:01 a.m. Pacific by Beth Kochuparambil. (All times recorded are Pacific timezone, unless otherwise stated.)

Meeting began with the agenda presentation:

https://www.ieee802.org/3/ck/public/adhoc/jan19_22/agenda_011922_3ck_adhoc.pdf

Chair noted that the meeting was part of the IEEE 802.3 January 2022 interim meeting series. Chair noted that the attendance for the IEEE 802.3 Working Group would be taken from the IEEE Meeting Attendance Tool. (see: <http://imat.ieee.org>)

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 via webex participant’s list for the purpose of the minutes.

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

The minutes for the December 8, 2022 ad hoc meeting and the January 12, 2022 interim meeting were posted to the website. (see: https://www.ieee802.org/3/ck/public/adhoc/dec08_21/minutes_120821_3ck_adhoc.pdf and https://www.ieee802.org/3/ck/public/adhoc/jan12_22/minutes_011222_3ck_adhoc.pdf) Chair asked if there were modifications or corrections to the posted minutes. 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 made a 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/jan12_22/agenda_011222_3ck_adhoc.pdf

- Completed initial SA ballot. Received 238 comments from 20 commenters.
- Noted that comments currently collected in the “bucket1” with Clause 91 and Clause 161 topics are to be reviewed by participants and if any of them are to be taken out of the bucket, participants are to notify leadership by 23 January 2022, AOE. (see: https://www.ieee802.org/3/ck/comments/draft3p0/8023ck_D3p0_comments_proposed_bucket1.pdf)
- Noted that comments currently collected in the “bucket2” with the remaining topics are to be reviewed by participants and if any of them are to be taken out of the bucket, participants are to notify leadership by 30 January 2022, AOE. (see: https://www.ieee802.org/3/ck/comments/draft3p0/8023ck_D3p0_comments_proposed_bucket2.pdf)
- Reviewed the proposed comment resolution schedule on slide 15.
- Noted that the contributions received to date with comments were posted to the Task Force webpage. (see: https://www.ieee802.org/3/ck/public/22_01/index.html)

Chief Editors Report - Matt Brown

See: https://www.ieee802.org/3/ck/public/22_01/editorsrep_3ck_01_0122.pdf

- Matt thanked the editorial team and advisors for their work on the draft.
- On slide 3, it was noted that “Working Group recirculation” should be “SA Ballot”

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for IEEE 802.3 Working Group attendance credit.

Presentation #1:

“J3u Measurement for CL162 ”, Alex Rysin

See: https://www.ieee802.org/3/ck/public/adhoc/jan19_22/rysin_3ck_adhoc_01_011922.pdf

- Discussed various aspects of the measurement method as it relates to the oscilloscope noise.
- The equipment used was a sampling oscilloscope with a few thousand iterations.
- Discussed the patterns used for the jitter measurements.

Beth noted that she had to leave the meeting due to a conflict and was passing the Chair responsibility to the Vice-Chair, Kent Lusted.

Presentation #2:

“Module stressed input loss calibration and other loss curves ”, Piers Dawe

See: https://www.ieee802.org/3/ck/public/22_01/dawe_3ck_02_0122.pdf

- Reviewed and discussed the graph on slide 12 and slide 9.
- Discussed the potential impact of compliance board ILdd on the various measurements.

Presentation #3:

“Mixed mode return loss limits ”, Piers Dawe

See: https://www.ieee802.org/3/ck/public/22_01/dawe_3ck_03_0122.pdf

- Discussed the specification limits proposed on slide 5.
- Discussed fixture construction.

Kent reminded participants to sign into the IEEE Meeting Attendance Tool for IEEE 802.3 Working Group attendance credit.

Kent noted that comments currently collected in the “bucket1” with Clause 91 and Clause 161 topics are to be reviewed by participants and if any of them are to be taken out of the bucket, participants are to notify leadership by 23 January 2022, AOE. (see: https://www.ieee802.org/3/ck/comments/draft3p0/8023ck_D3p0_comments_proposed_bucket1.pdf)

Kent noted that comments currently collected in the “bucket2” with the remaining topics are to be reviewed by participants and if any of them are to be taken out of the bucket, participants are to notify

leadership by 30 January 2022, AOE. (see: https://www.ieee802.org/3/ck/comments/draft3p0/8023ck_D3p0_comments_proposed_bucket2.pdf)

Presentation #4:

“Common mode return loss limits”, Piers Dawe

See: https://www.ieee802.org/3/ck/public/22_01/dawe_3ck_04_0122.pdf

- Discussed the proposed RLcc spec on slide 9.
- It was noted that the proposed spec does not include the wire termination effects.

Kent reminded participants that comment resolution meetings for Draft 3.0 begin on 25 January 2022. (see: <https://www.ieee802.org/3/calendar.html>)

Meeting ended at ~9:00 a.m. 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
Alexander Rysin	NVIDIA	NVIDIA
Ali Ghiasi	Ghiasi Quantum/Inphi	Ghiasi Quantum/Inphi
Anand RK	Cadence	Cadence
Arthur Marris	Cadence	Cadence
Ayal Shoval	Synopsys	Synopsys
Beth Kochuparambil	Cisco	Cisco
Bill Powell	Independent	Independent
Bill Simms	NVIDIA	NVIDIA
Bo Zhang	Marvell	Marvell
Brandon Gore	Samtec	Samtec
Brian Welch	Cisco	Cisco
Bruce Champion	TE Connectivity	TE Connectivity
Cameron Whiteman	Infinera	Infinera
Champion (Chien Ping) Kao	Cornelis Networks	Cornelis Networks
Chan Chih (David) Chen	Applied Optoelectronics	Applied Optoelectronics
Chris DiMinico	PHY-SI	PHY-SI

Curtis Donahue	Rohde & Schwarz	Rohde & Schwarz
Dave Estes	Spirent	Spirent
David Malicoat	Senko	Independent
Dawei Fan	Huawei	Huawei
Ed Frlan	Semtech	Semtech
Enis Akbaba	Analog Devices	Analog Devices
Eugene Opsasnick	Broadcom	Broadcom
Geoff Zhang	Xilinx	Xilinx
Hadrien Louchet	Keysight	Keysight
Hansel Dsilva	Achronix	Achronix
Haojie Wang	China Mobile	China Mobile
Hessam Mohajeri	Cadence	Cadence
Howard Heck	Intel	Intel
Istvan BakroNagy	EFFECT Photonics	EFFECT Photonics
James Weaver	Arista	Arista
Jane Lim	Cisco	Cisco
Jeff Slavick	Broadcom	Broadcom
Jeffery Maki	Juniper	Juniper
Jerry Pepper	Keysight	Keysight
Jim Graba	Broadcom	Broadcom
Jim Theodoras	HG Genuine	HG Genuine
Jinhua Chen	Luxshare ICT	Luxshare ICT
Jodi Haasz	IEEE SA	IEEE SA

John Calvin	Keysight	Keysight
John Ewen	Marvell	Marvell
John Yurtin	Aptiv	Aptiv
Joshua Kim	Hirose	Hirose
Karl Bois	NVIDIA	NVIDIA
Kent Lusted	Intel	Intel
Kumaran Krishnasamy	Broadcom	Broadcom
Liav Ben-Artzi	Marvell	Marvell
Marc Cartier	Amphenol	Amphenol
Mark Bordogna	Intel	Intel
Mark Kimber	Semtech	Semtech
Mark Nowell	Cisco	Cisco
Matt Brown	Huawei	Huawei
Mau-Lin Wu	Mediatek	Mediatek
Mike Davis	Sicoya	Sicoya
Mike Dudek	Marvell	Marvell
Nathan Tracy	TE Connectivity	TE Connectivity
Pavel Zivny	Tektronix	Tektronix
Phil Sun	Credo	Credo
Piers Dawe	NVIDIA	NVIDIA
Pirooz Toyserkani	Cisco	Cisco
Priyank Shukla	Synopsys	Synopsys
Qingya She	Fujitsu	Fujitsu

Ray Schmelzer	Wilder Tech	Wilder Tech
Rich Mellitz	Samtec	Samtec
Rick Rabinovich	Keysight	Keysight
Ruoxu Wang	Huawei	Huawei
Ryan Bepalko	Alphawave IP	Alphawave IP
Sam Kocsis	Amphenol	Amphenol
Scott Sommers	Molex	Molex
Semmy Peng	Huawei	Huawei
Shawn Nicholl	Xilinx	Xilinx
Shayan Shahramian	Alphawave	Alphawave
Shimon Muller	Axalume	Axalume
Steve Sekel	Wilder Tech	Wilder Tech
Tao Hu	Marvell	Marvell
Terry Little	Foxconn Interconnect	Foxconn Interconnect
Thomas Mueller	Rosenberger	Rosenberger
Tim Baggett	Wilder Tech	Wilder Tech
Tobey PR Li	Mediatek	Mediatek
Tom Palkert	Macom/Samtec	Macom/Samtec
Tom Souvignier	Broadcom	Broadcom
Toshiaki Sakai	Socionext	Socionext
Upen Kareti	Cisco	Cisco
Viet Tran	Keysight	Keysight
Xiang He	Huawei	Huawei

Xiangrong Gao	Huawei	Huawei
Yasuaki Kawatsu	Apresia Systems	Apresia Systems
Yasuo Hidaka	Credo	Credo
Yi Sun	OFS Optics	OFS Optics
Zhi W	Xilinx	Xilinx