

Unconfirmed Meeting Minutes: Meeting of the IEEE P802.3dg Long-Reach Single Pair Ethernet TF

February 28, 2024 Electronic Interim Meeting

Prepared by Bob Voss

All times in CST

IEEE P802.3dg Task Force meeting was called to order at 2/28/2024 9:03 AM by the chair, George Zimmerman.

The meeting was held electronically via WebEx.

Attendance is listed in Appendix A.

All presentations referenced in these minutes are located on the Task Force Public web page (https://www.ieee802.org/3/dg/public/May_2022/index.htm)

The Chair displayed and proceeded to review the agenda in https://ieee802.org/3/dg/public/May_2022/agenda_3dg_01_240228.pdf. (agenda was updated to add motion #1, at https://ieee802.org/3/dg/public/May_2022/agenda_3dg_01a_240228.pdf.)

Meeting minutes confirmed.

The agenda was approved at 9:04AM by unanimous consent.

Bob Voss continues as recording secretary for the task force.

The minutes from February 7, 2024, meeting were approved at 9:05AM CST by unanimous consent.

Members of the Press, at 9:06AM CST the chair asked for any press members to identify themselves. None heard.

Attendance, the Chair advised the group that the attendance would be taken from Webex.

At 9:09AM CST, the Chair resumed review of the agenda deck, including the following items – a review of the participation policy, a review of the IEEE copyright policy, a review of the IEEE policy on dominance, and a review of the IEEE Standards process. There were no questions.

IEEE Patent Policy, The Chair read aloud the patent slides, slides 0 through 4. The call for patents was made at 9:11AM CST and **none** responded.

The Chair resumed review of the agenda deck material after the call for patents.

At 9:12AM CST, the chair reviewed the IEEE SA Copyright policy, participant behavior, individual process, fair and equitable consideration, showing the requisite slides for each topic.

The chair said there are no liaisons or communications for the task force to consider at this time.

Presentations and Discussion:

At 9:16 AM CST, the Chair moved on to the presentations.

Presentation: IEEE P802.3dg 100BASE-T1L PHY Time Domain Simulations

(Presented by Brian Murray, Analog Devices)

- https://iee802.org/3/dg/public/May_2022/Murray_3dg_02282024.pdf *updated after presentation
- Presentation started at 9:17AM CST.
- Starting at 9:43 AM CST, questions were asked and answered.

Presentation: Application driven view on Burst & Coupling Attenuation for links

(Presented by Ralf Tillmans, Weidmüller Peter Fischer, BKS Kabel-Service)

- https://iee802.org/3/dg/public/May_2022/Fischer_3dg_01_02282024.pdf
- Presentation started at 10:00AM CST.
- Starting at 10:11AM CST, questions were asked and answered.

PHY Baseline Discussion – moving forward

At 10:21AM, Mr. Zimmerman initiated a group discussion of steps moving forward. The topic of discriminating between PAM3 or PAM4 modulations was chosen.

Motion #1 – Move that the IEEE P802.3dg Task Force proceed forward on the basis of using PAM-3 and PAM-4 modulations.

M = B. Murray

S = P. Jones

Technical (>= 75%)

Motion Passes without objection.

Motion, timeline, next steps

Presentations and discussion concluded at 10:38AM CST.

Next meetings

- March 2024 IEEE 802 Plenary – Denver, CO USA
 - In Person with remote access
 - 802.3dg meets Monday afternoon (3/11) & Tuesday morning (3/12)
 - Registration & Fee required!
 - See <https://www.ieee802.org/3/interims/index.html> for information.
- Presentation requests due ONE WEEK PRIOR TO MEETING (04Mar2024)
 - Presentations due by Friday AoE prior to meeting (08Mar2024)
 - A friendly request, PLEASE do not wait until late Friday California time!

Having exhausted the agenda, the meeting was adjourned at 10:46 AM CST.

Appendix A: IEEE P802.3dg Long-Reach Single Pair Ethernet Task Force Attendance

LastName	FirstName	Affiliation
Alberti-Arroyo	Hector	ADI
Baggett	Tim	Microchip
Beauregard	Francois	Belden
Brandt	David	Rockwell Automation
Brychta	Michal	ADI
Carty	Clark	Cisco
Fischer,	Peter	BKS Kabel-Service AG
Jones	Chad	Cisco
Jones	Peter	Cisco
Jonsson	Ragnar	Marvell
Maguire	Valerie	Copperopolis, aff'l w/CME Consulting
Murray	Brian	ADI
Paul	Michael	ADI
Schicketanz	Dieter	Reutlingen University
Schreiner	Stephan	Rosenberger
Steffen	Graber	Pepperl+Fuchs
Stover	David	ADI
Sun	jingcong	motorcomm
Thompson	Geoff	GraCaSi-Ind
Tillmanns	Ralf	Weidmueller
Voss	Bob	Panduit
Wu	Peter	Marvell
Xu	Dayin	Rockwell Automation
Zhuang	Yan	Huawei
Zimmerman	George	CME Consulting/ADI, APL Group, Cisco, Marvell, OnSemi, SenTekSe, Sony