

Unconfirmed Meeting Minutes: IEEE P802.3dm Asymmetrical Electrical Automotive Ethernet Task Force General Electronic Interim

May 01, 2025
Electronic Interim Meeting

Prepared by George Zimmerman

IEEE P802.3dm Interim meeting convened at 10:00 AM EDT, Thursday, May 1, 2025, by Jon Lewis, IEEE P802.3dm Chair.

Attendance is listed in Appendix A

Presentation: [agenda_adhoc_3dm_01_050125.pdf](#)

Presenter: Jon Lewis, Chair.

Approval of Agenda: The chair asked whether there were additions or corrections to the agenda, and there were none. He announced that the agenda was approved. (10:02AM)

The Chair continued review of the agenda presentation.

Jon Lewis noted that there should be no recording or photography without permission.

Jon Lewis asked if anyone was attending from the press including those who would run a public blog on this meeting – there were no indications from the group. (10:03AM)

Jon Lewis then continued review of the presentation, reviewing decorum, information for the reflector, private area, and ground rules.

Private Area: The credentials for the private area were shared. Please contact Jon Lewis if you need these as they will not be included in the posted material.

The chair discussed voting on motions, that since this was an electronic meeting, all motions were working group voters only and would be taken via DirectVoteLive and recorded by roll call, if there were any objections.

Attendance, the Chair advised the group that attendance would be taken from the Zoom log and IMAT. He then reminded attendees that they should show their employer & affiliation, and how to set these to make them correct. Assistance was offered in case anyone could not rename themselves.

IEEE SA Patent Policy, The chair (Jon Lewis) asked whether anyone had not seen the patent policy, or otherwise needed it to be read aloud. There was no response. He reviewed slides 0 through 4 of the IEEE SA Patent Policy for Task Forces and read aloud the call for patents.

There was no response to the call for patents at **10:07 EDT am.**

Other IEEE Policies

Jon Lewis read aloud the slides on the IEEE SA copyright, Participant behavior (ethics), IEEE individual participation, and fair and equitable consideration policies. There were no questions. **(10:09AM)**

Jon Lewis turned to presentation [agenda_adhoc_3dm_01_050125.pdf](#) and reviewed the agenda for the meeting. He noted that the presentations would be presented in the order listed in the agenda deck.

ANNOUNCEMENTS: Straw Polls

Before turning to presentations. The chair made two announcements:

- He may need to step away from the meeting late in the meeting, and if so, he would hand the chair of the meeting over to Natalie Wienckowski, the vice chair.
- The Chair advised the group that due to an issue with the teleconference tool, straw poll roll call and teleconference tool attendance had been lost for the April 17 2025 meeting. No roll call information for that meeting was available from the conference tool. The problem has been resolved.

PRESENTATIONS

(10:14AM) The Chair then moved to the presentations for the meeting.

(10:14 AM)

Title/URL: [Maximum Cable Link Delay Consideration](#)

URL: https://iee802.org/3/dm/public/050125/gorshe_3dm_01a_250501.pdf

Presenter: Steve Gorshe/Microchip Technology

Co-author: Scott Muma / Microchip Technology

Discussion: The presenter discussed considerations for computing maximum link delay in IEEE Std 802.3 (specifically based on Clause 80), and for 802.3dm.

Questions were asked and answered.

The chair announced that due to internet issues with the next scheduled presenter, the order of presentations would change, advancing to the following presentation and coming back later.

(10:30 AM)

Title/URL: [Joint ACT/GMSLE draft text proposal](#)

URL: https://iee802.org/3/dm/public/050125/jonsson_etal_3dm_01_05_01_25.pdf

Presenter: Ragnar Jonsson / Marvell

Co-Authors: Jay Cordaro / ADI; Hossein Sedarat / Ethernovia, William Lo / Axonne

Discussion: The presenter discussed draft text for a joint ACT/GMSLE proposal, outlining several new updates to reflect agreements at the Atlanta meeting (March 2025) and updates to unify the ACT and GMSLE proposals. Text changes noted included PAM2 for 5 Gbps, MDI text and test modes for coax transceivers, electrical specifications and link segment specification text. A companion document was posted with the detailed text:

https://www.iee802.org/3/dm/public/050125/jonsson_etal_3dm_01_03_24_25_text.pdf)

Questions were asked and answered.

(10:50AM)

Title/URL: [Low-cost link synchronization for clockless system](#)

URL: https://iee802.org/3/dm/public/050125/Lo_3dm_01_050125.pdf

Presenter: William Lo, Axonne

Discussion: The presenter discussed an alternate to the proposal given in March 2025 for link synchronization for the ACT proposal, to reduce complexity specifically and match crystal-less systems.

Questions were asked and answered.

Between presentations, the chair announced that he had received a request for a motion to be heard, time permitting, after the scheduled presentations.

(11:22 AM)

Title/URL: [ACT/GMSLE Training Frame and Training Sequence](https://ieeexplore.ieee.org/3/dm/public/050125/jonsson_razavi_3dm_01_05_01_25.pdf)

URL: https://ieeexplore.ieee.org/3/dm/public/050125/jonsson_razavi_3dm_01_05_01_25.pdf

Presenter: Ragnar Jonsson / Marvell

Co-Author: Alireza Razavi / Marvell

Discussion: The presenter discussed a scheme for training in the ACT/GMSLE proposal including infocubes and training frame structure.

There were no questions.

(11:37 AM) At this point, the chair announced that the meeting was running well ahead of schedule and proposed a 10 minute break. There were no objections.

The meeting resumed at 11:47AM.

(Note – when the meeting resumed, a presentation was inadvertently skipped, so the order of the last 2 presentations was reversed. There was no objection from the group.)

(11:47 AM)

Title/URL: [Proposal for comparison Process](https://www.ieee802.org/3/dm/public/050125/veloso_matheus_dm_01_comparison_20250501.pdf)

URL: https://www.ieee802.org/3/dm/public/050125/veloso_matheus_dm_01_comparison_20250501.pdf

Presenter: Kirsten Matheus / BMW Group

Co-Author: Gumersindo Veloso / BMW Group

Discussion: The presenter discussed a proposal for collating issues for comparing the two competing proposals, including explanations of why factors had relative importance, and invited others to participate.

Questions were asked and answered.

(12:10PM)

Title/URL: [Improved ACT Link Synchronization for Crystal-less Camera Links](https://ieeexplore.ieee.org/3/dm/public/050125/Razavi_3dm_01_May_01_2025.pdf)

URL: https://ieeexplore.ieee.org/3/dm/public/050125/Razavi_3dm_01_May_01_2025.pdf

Presenter: Alireza Razavi / Marvell

Discussion: The presenter discussed considerations for link synchronization and training using a continuous low data rate signal to reduce complexity of the link synchronization.

Questions were asked and answered, including questioning whether link synchronization was needed at all in this asymmetric system.

At 12:40PM, all presentations had been heard, and the Chair turned to proposed motions.

MOTION:

The chair announced the following motion had been received:

Move to adopt PAM2 for 5 Gb/s as shown in slide 9 of presentation

https://www.ieee802.org/3/dm/public/1124/Chini_3dm_01a_1124.pdf

M: Mehmet Tazebay

S: Kamal Dalmia

There was discussion supporting the use of PAM 2 for 5 Gbps in the high-speed direction, however dissent on the wording of the motion itself, surrounding the slide reference. As a result, the mover and seconder, with the consent of the group modified the motion to read:

Move to adopt PAM2 for 5 Gb/s for the high speed direction

M: Mehmet Tazebay

S: Kamal Dalmia

MOTION PASSES by unanimous consent.

(12:49 PM)

FUTURE MEETINGS

P802.3dm will meet during the 802.3 Interim in New Orleans in May, a registration fee is required. Information may be found at <https://www.ieee802.org/3/calendar.html> .

The form for presentation requests for the interim meeting had been posted to the reflector.

Having exhausted the agenda, the meeting was adjourned at **12:40 PM EDT**.

Appendix A: Attendees at the IEEE P802.3dm Asymmetrical Electrical Automotive Interim Meeting, May 1, 2025.

Last Name	First Name	Employer	Affiliation	IMAT	Zoom
Ahuja	Ramanjit	ON Semiconductor	"On Semi; ON Semiconductor"	X	X
Bar-Niv	Amir	Aquantia Corp	Marvell	X	X
Benyamin	Saied	Ethernovia		X	X
Boyer	Rich	Aptiv - Signal and Power Solutions	Aptiv	X	X
Chimento	Nicholas		Analog Devices Inc.	X	X
Chini	Ahmad	Broadcom Corporation	broadcom	X	X
Cordaro	Jay	Analog Devices	Analog Devices	X	X
Dalmia	Kamal	Aviva Links Inc	Aviva links	X	X
Estrakh	Daniel	Valens Semiconductor	Valens Semiconductor	X	X
Fuller	Paul		Marvell	X	X
Ganesan	Aravind	Texas Instruments Inc.	Texas Instruments	X	X
Gauthier	Claude	NXP Semiconductors	NXP	X	X
Goel	Sachin	Aviva Links Inc	Aviva Links Inc; Aviva Links Inc.	X	X
Gopal	Amrit	Ford Motor Company	Ford Motor Company	X	X
Gorshe	Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.	X	X
Gupta	Ajeya		General Motors Company	X	X
Hoshino	Masayuki		Continental Automotive	X	X
Hutchison	Guy	Aviva Links	Aviva Links Inc; Aviva Links Inc.	X	X
HYAKUTAKE	YASUHIRO	Orbray Co., Ltd.	Orbray Co., Ltd.	X	X
Jones	Peter	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Jonsson	Ragnar	Marvell Semiconductor, Inc.	Marvell	X	X
Kapoor	Samay	Aviva Links	Aviva Links	X	X
Kikuta	Tomohiro	Orbray Co., Ltd.	Orbray Co., Ltd.	X	X
Kim	Do Kyun		LG ELECTRONICS	X	X
Koependoerfer	Erwin	LEONI Kabel GmbH	Leoni Kabel GmbH	X	X
Kumar	Niraj		NXP Semiconductors	X	X
Lasry	Ariel	Qualcomm Technologies, Inc	Qualcomm Technologies, Inc	X	X
Lee	Ching-Yen		Realtek Semiconductor Corp.	X	X
Lewis	Jon	Dell Technologies	Dell Technologies	X	X
Lim	Hoei		Aviva Links Inc; Aviva Links Inc.	X	X
Lin	YK		Realtek Semiconductor Corp.	X	X
Long	Richard		TE Connectivity	X	X
Maguire	Valerie	Copperopolis	The Siemon Company	X	X
Matheus	Kirsten	BMW Group	BMW	X	X
McClellan	Brett	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Miskho	Michael		Analog Devices Inc.	X	X
Muma	Scott		Microchip Technology, Inc.	X	X
Murray	Brian	Analog Devices Inc.	Analog Devices	X	X

Ng	Hiok Tiaq	Aviva Links Inc.	Aviva Links Inc.	X	X
NIHARA	YOSHIHIRO	Fujikura Ltd.	Fujikura Ltd.	X	X
Oberg	Mats	Marvell Semiconductor, Inc.	Marvell	X	X
Pischl	Neven	Broadcom Corporation	Broadcom Corporation	X	X
Razavi	Alireza	Marvell	Marvell	X	X
Sedarat	Hossein	Ethernovia	Ethernovia	X	X
Sharma	Rohit		Molex LLC	X	X
shirani	ramin	Ethernovia	Ethernovia	X	X
Tanc	Ahmet		NXP Semiconductors	X	X
TAZEBAY	MEHMET	Broadcom Corporation	Broadcom	X	X
Thompson	Geoffrey	GraCaSI S.A.	GraCaSI S.A.	X	X
Tofanicchio	Giuseppe	Giuseppe Tofanicchio	stmicroelectronics	X	X
van Dyck	Peter		Marvell	X	X
Veloso Cauce	Gumersindo	BMW Group	BMW AG	X	X
Wang	Shun-Sheng	Realtek Semiconductor Corp.	Realtek Semiconductor Corp.	X	X
Wienckowski	Natalie	IVN Solutions LLC	In-Vehicle Networking Solutions, LLC	X	X
Wu	Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Zerna	Conrad	Aviva Links Inc	Avivalinks Inc.	X	X
Zimmerman	George	CME Consulting, Inc.	CME Consulting/Analog Devices, APL Group, Cisco, Marvell, OnSemi, SenTekSe LLC, Sony	X	X
(NOT IN IMAT)					
D'Ambrosia	John		Futurewei# U.S. Subsidiary of Huawei		X
Haasz	Jodi		IEEE SA		X
Hogenmueller	Thomas		Robert Bosch		X
Kandarpa	Venkata		Aviva Links		X
Kleinwaechter	Mathias		in-tech		X
Law	David		HPE		X
Lo	William		Axonne		X
Lou	Wei		Broadcom		X
Pineda	Luis		LP Tech Advisors		X
Tu	Mike		Broadcom		X
Turner	Max		Ethernovia		X