

## Unconfirmed Meeting Minutes: P802.3da/dg Joint Task Force Meeting

November 13/14, 2024 -- Hybrid Plenary meeting

Prepared by Bob Voss

All times in PST

We plan to proceed through the work for 802.3da, then switch to 802.3dg.

Each group will follow its own agenda during its time

### P802.3da Meeting

IEEE P802.3da Task Force meeting was called to order at 13Nov2024, 1:16PM PST by the P802.3dg chair, George Zimmerman and the P802.3da chair, Chad Jones.

The meeting was held in person at the Hyatt Regency Vancouver BC and electronically using Webex.

Bob Voss served as recording secretary for this joint task force meeting.

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/da/public/1124/index.html> for 802.3da

or

[https://www.ieee802.org/3/dg/public/May\\_2024/index.htm](https://www.ieee802.org/3/dg/public/May_2024/index.htm) for 802.3dg

The Chair displayed and proceeded to review the agenda in

[https://www.ieee802.org/3/dg/public/May\\_2024/agenda\\_3dadg\\_01a\\_20241113.pdf](https://www.ieee802.org/3/dg/public/May_2024/agenda_3dadg_01a_20241113.pdf)

(later this was modified to include motions and straw polls as):

[https://www.ieee802.org/3/dg/public/May\\_2024/agenda\\_3dadg\\_01c\\_20241113.pdf](https://www.ieee802.org/3/dg/public/May_2024/agenda_3dadg_01c_20241113.pdf)

### Approve Agenda

The agenda was approved, without the approval of prior meeting minutes, at 1:18PM PST by unanimous consent. Agenda version 01b was displayed and will be uploaded to the TF site (later, further modifications made this an 01c version, linked above). The chair asked if there were objections to using the amended agenda, 01b. None heard.

### Approve Prior Meeting Minutes

Approve the Joint 802.3dg/da minutes from Sept 2024 at:

- [https://www.ieee802.org/3/da/public/0924/spmd\\_TF\\_minutes\\_00\\_091624\\_4.pdf](https://www.ieee802.org/3/da/public/0924/spmd_TF_minutes_00_091624_4.pdf)

Approve prior 802.3da interim minutes at:

- [https://www.ieee802.org/3/da/public/090424/spmd\\_TF\\_minutes\\_00\\_090424.pdf](https://www.ieee802.org/3/da/public/090424/spmd_TF_minutes_00_090424.pdf) (4 Sept)
- [https://www.ieee802.org/3/da/public/103024/spmd\\_TF\\_minutes\\_00\\_103024.pdf](https://www.ieee802.org/3/da/public/103024/spmd_TF_minutes_00_103024.pdf) (30 Oct)

Approve 802.3dg interim and ad hoc minutes at:

- [https://www.ieee802.org/3/dg/public/May\\_2024/Unconfirmed\\_minutes\\_3dg\\_10292024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Unconfirmed_minutes_3dg_10292024.pdf) (29 Oct)

(24 October Power ad hoc minutes still pending)

The chair asked if any TF attendee needed more time to review or wished to amend the minutes as posted. At **1:22PM PST** the chair asked if there was any objection to confirming these minutes and holding the powering ad hoc minutes until the next meeting. No objection heard.

## General Decorum and Task Force Decorum

The chair reviewed the slides on General Decorum and Task Force Decorum.

## Goals for the Meeting

### 802.3da

- Progress draft to initial WG ballot

### 802.3dg

- Adopt baselines to fill out d1.0 PCS baseline
- Progress PMA training – adopt / refine baselines
- Progress powering discussion – consider what fits into 802.3dg

## Meeting Fees

- This meeting is conducted as part of the IEEE 802 Plenary Meeting. Registration and payment of fees is required, and attendance without properly registering is subject to penalties under IEEE 802 rules.
- See <https://www.ieee802.org/3/interims/index.html> for further information and a registration link.

The chair reviewed slides with coordinates for the Reflector and Web for both task forces. Slides were reviewed regarding the private areas for both task forces. The chair also reviewed the Ground Rules slide with the group.

**Attendance Recording and Membership Requirements** Meeting participants were also informed of attendance requirements for gaining and maintaining 802.3 WG voting rights.

## Attendance

The Chair advised the group that attendance would be taken from IMAT and from Webex.

At 1:27PM PST, the Chair resumed review of the agenda deck, including the following items – IEEE Structure, Important Bylaws and Rules, proceeding on to the patent policy. There were no questions.

**IEEE Patent Policy**, The Chair read aloud the patent slides.

The call for patents was made at 1:28PM PST and **none** responded.

The chair reviewed the IEEE SA Copyright policy, participant behavior, individual process, fair and equitable consideration of all viewpoints, and the project's position in the standards process.

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

The chair showed slides containing links to the Approved Project Documents (PAR, 5 Criteria, Objectives) for each task force.

The chair briefly reviewed the revised timelines for both task forces.

## Proposed Order of Business

- Wed PM1: Begin with 802.3da presentations and business, until complete
  - Expected to complete during Wed PM1 time slot

- Switch to 802.3dg presentations and business until complete
  - Expected to continue into Thurs AM sessions

### 802.3da Presentations and Discussion:

At 1:33 PM PST, Mr. Jones moved on to the presentations and discussion.

#### **Motion #1**

Move that IEEE 802.3 Working Group progress IEEE P802.3 draft 2.0 to Working Group Ballot.

M: Jon Lewis  
S: Valerie Maguire

Technical, >= 75%

#### **Motion Passes by voice without opposition**

54 participants in the meeting

Having exhausted the agenda, 802.3da was recessed by Chad Jones at 1:43PM PST. Mr. Zimmerman opened the 802.3dg segment of this joint TF meeting.

### 802.3dg Presentations and Discussion:

#### **Presentation: Editor's Report**

(Presented by Yan Zhuang, Huawei Technologies)

- [https://www.ieee802.org/3/dg/public/May\\_2024/zhuang\\_3dg\\_01\\_1124.pdf](https://www.ieee802.org/3/dg/public/May_2024/zhuang_3dg_01_1124.pdf)
- Presentation started at 1:45PM PST.
- Starting at 1:57PM PST, questions were asked and answered.

#### **Presentation: Error Handling for 100BASE-T1L**

(Presented by Brian Murray, Analog Devices)

- [https://www.ieee802.org/3/dg/public/May\\_2024/Riesco\\_3dg\\_01\\_11132024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Riesco_3dg_01_11132024.pdf)
- Presentation started at 2:00PM PST.
- Starting at 2:06PM PST, questions were asked and answered.

#### **Presentation: Proposal for Constant Latency MII to 8N/8N+1 Encoding in the 100BASE-T1L PCS (motion preview)**

(Presented by Brian Murray, Analog Devices)

- [https://www.ieee802.org/3/dg/public/May\\_2024/Murray\\_3dg\\_01a\\_11132024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Murray_3dg_01a_11132024.pdf)
- Presentation started at 2:08PM PST
- Starting at 2:21PM PST, questions were asked and answered

#### **Presentation: Proposed 802.3dg PCS Text**

(Presented by William Lo, Axonne)

- [https://www.ieee802.org/3/dg/public/May\\_2024/Lo\\_3dg\\_01b\\_1124.docx](https://www.ieee802.org/3/dg/public/May_2024/Lo_3dg_01b_1124.docx)
- Presentation started at 2:23PM PST.
- Starting at 2:42PM PST, questions were asked and answered.

#### **Presentation: PAM-2 Training in 100BASE-T1L**

(Presented by Brian Murray, Analog Devices)

- [https://www.ieee802.org/3/dg/public/May\\_2024/Murray\\_3dg\\_04a\\_11132024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Murray_3dg_04a_11132024.pdf)
- Presentation started at 2:47PM PST.

- Starting at 3:00PM PST, questions were asked and answered.

The chair recessed the meeting to accommodate an afternoon break at 3:18 PM PST. At 3:44PM PST, Mr. Zimmerman called the meeting back to order.

### **Presentation: Proposal for 100BASE-T1L PMA Training**

(Presented by Tingting Zhang, Huawei Technologies)

- [https://www.ieee802.org/3/dg/public/May\\_2024/Tingting\\_3dg\\_01\\_13\\_11\\_2024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Tingting_3dg_01_13_11_2024.pdf)
- Presentation started at 3:45PM PST.
- Starting at 4:04PM PST, questions were asked and answered.

### **Presentation: Proposal for EEE Signaling**

(Presented by Tingting Zhang, Huawei Technologies)

- [https://www.ieee802.org/3/dg/public/May\\_2024/Tingting\\_3dg\\_02\\_12\\_11\\_2024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Tingting_3dg_02_12_11_2024.pdf)
- Presentation started at 4:13PM PST.
- Starting at 4:25PM PST, questions were asked and answered.

### **Presentation: Proposal for 100BASE-T1L Auto-Negotiation**

(Presented by Brian Murray, Analog Devices)

- [https://www.ieee802.org/3/dg/public/May\\_2024/Fitzgerald\\_3dg\\_01\\_11132024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Fitzgerald_3dg_01_11132024.pdf)
- Presentation started at 4:53PM PST.
- Starting at 5:02PM PST, questions were asked and answered.

### **Presentation: Proposed Draft Sharing with Profi**

(Presented by George Zimmerman, CME Consulting/Various)

- [https://www.ieee802.org/3/dg/public/May\\_2024/zimmerman\\_3dg\\_01a\\_20241113.pdf](https://www.ieee802.org/3/dg/public/May_2024/zimmerman_3dg_01a_20241113.pdf)
- Presentation started at 5:05PM PST
- Starting at 5:12PM PST, questions were asked and answered

### **Motion #2**

Move to request the 802.3 working group establish a draft-sharing relationship between the IEEE 802.3 Ethernet Working Group and Profibus & Profinet International

M: Jon Lewis  
S: Bob Voss

Procedural, >= 50%

**Motion Passes by unanimous consent.**

### Discussion / Motions

### **Motion #3**

Move that the IEEE P802.3dg Task Force adopt slides 3 to 8 and slide 10 of Murray\_3dg\_01a\_11132024.pdf

M: Brian Murray  
S: William Lo

Technical, >=75%

**Motion Passes without objection**

## Motion #4

Move that the IEEE P802.3dg Task Force adopt slides 4 to 7 of Murray\_3dg\_03a\_11132024.pdf

M: Brian Murray  
S: Jon Lewis

Technical, >=75%

### Motion #4a: Call the Question

During debate of Motion 4, Mr. Lewis moved to call the question. M = Jon Lewis, S = Peter Jones. Motion is not debatable.

Question is called without objection.

### Motion #4 Passes without objection

At 5:38PM PST, the chair recessed the meeting to be resumed at 8:30AM PST on 14Nov2024.

**On 14Nov2024 at 8:33AM PST, Mr. Zimmerman resumed the joint TF meeting. The meeting began with review of front matter slides from the agenda deck.**

Call for members of the press at 8:37AM PST.

Please record attendance in IMAT. Webex is also used to cross-check attendance.

At 8:40AM PST, Mr. Zimmerman gave the Call for Patents. None heard.

The chair reviewed the IEEE SA Copyright policy, participant behavior, individual process, fair and equitable consideration of all viewpoints, and the project's position in the standards process.

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

The chair showed slides containing links to the Approved Project Documents (PAR, 5 Criteria, Objectives) for each task force.

Mr. Zimmerman then turned to the business at hand and invited Mr. Murray to present his motion, below.

## Motion #5

Move that the IEEE P802.3dg Task Force adopt slides 3 to 7 of Fitzgerald\_3dg\_01\_11132024.pdf

M: Brian Murray  
S: Peter Jones

Technical, >=75%

### Motion Passes without objection

With this motion, the pre-submitted contributions for this meeting are completed. Mr. Zimmerman opened the floor for discussion and other business from the floor.

Tingting Zhang offered and gave a brief overview of a revision to "Proposal for 100BASE-T1L PMA Training"

### Presentation: Proposal for 100BASE-T1L PMA Training (01a – revised)

URL: [https://www.ieee802.org/3/dg/public/May\\_2024/Tingting\\_3dg\\_01a\\_11132024.pdf](https://www.ieee802.org/3/dg/public/May_2024/Tingting_3dg_01a_11132024.pdf)

Presenter: Tingting Zhang (Huawei)

Following the presentation, Ms. Zhang offered the following straw poll:

**Straw Poll #1**

I would support adopting slides 3 to 5 of tingting\_3d\_01a\_11132024.pdf. (choose one)

Y = 8

N = 5 + 2 = 7

Possibly, desire more time to evaluate a complete proposal = 7

Mr. Zimmerman asked if further straw polls and/or motions were to be offered from the floor. None heard.

Concluding Business (802.3da & 802.3dg)

Mr. Zimmerman handed the meeting over to Mr. Chad Jones, to conclude the 802.3da portion of the meeting. Messrs. Zimmerman and Jones led the discussion of Next Meetings. Mr. Zimmerman asked the group if there is any objection to 802.3dg meeting exclusively by electronic means outside of the 802.3 Interim meeting in January.

Next Meetings

- 802.3dg Ad Hocs – Opportunities on Wednesdays 7 – 9am Pacific, TBA – based on requests
  - Please request time 1 week in advance
- 802.3da Ad Hocs -- TBA
- January 2025 IEEE802.3 Interim, Phoenix, AZ (January 20-24, 2025)
  - In-person with remote access – REGISTRATION REQUIRED
  - See <https://www.ieee802.org/3/interims/index.html> for information

Having exhausted the agenda, the chairs adjourned the meeting on 14Nov2024 at **9:42AM PST**.

## Appendix A: IEEE P802.3da/dg Joint Task Force Attendance

Name	Employer	Affiliation	IMAT		Webex	
			Day 1	Day 2	Day 1	Day 2
Ahuja, Ramanjit	ON Semiconductor	ON Semiconductor	X		X	
Baggett, Tim	Microchip Technology, Inc.	Microchip Technology, Inc.	X	X	X	X
Bar-Niv, Amir	Marvell	Marvell	X		X	
Beauregard, Francois	Belden Canada ULC	Belden	X	X	X	X
Boyer, Rich	Aptiv - Signal and Power Solutions	Aptiv Signal and Power Solutions		X		X
Brandt, David	Rockwell Automation	Rockwell Automation		X	X	X
Chang, Jae-yong	Keysight Technologies Inc	Keysight Technologies Inc	X	X	X	
Chini, Ahmad	Broadcom Corporation	Broadcom Corporation	X	X		
Cordaro, Jay		Analog Devices Inc.	X	X	X	X
DiBiaso, Eric	TE Connectivity	TE Connectivity	X		X	
Donahue, Curtis	Rohde & Schwarz	Rohde & Schwarz	X	X		X
Fellhauer, Felix	Robert Bosch GmbH	Robert Bosch GmbH	X		X	
Goel, Sachin	Aviva Links Inc	Aviva Links Inc	X		X	
Goto, Hideki	Toyota Motor Corporation	Toyota Motor Corporation	X		X	
Graber, Steffen	Pepperl+Fuchs SE	Pepperl+Fuchs SE	X	X	X	X
Gubow, Martin	Keysight Technologies	Keysight Technologies	X	X		X
Hoshino, Masayuki		Continental Automotive	X		X	
Houck, TJ		Marvell	X	X	X	X
Hyakutake, Yasuhiro	Orbray Co., Ltd.	Orbray Co., Ltd.	X	X	X	X
Jones, Chad	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X	X	
Jones, Peter	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X		X
Jonsson, Ragnar	Marvell Semiconductor, Inc.	Marvell	X	X	X	X
Kapoor, Samay	NOT IN IMAT	Aviva Links			X	
Kawatsu, Yasuaki	APRESIA Systems	APRESIA Systems	X		X	
Kikuta, Tomohiro	Orbray Co., Ltd.	Orbray Co., Ltd.	X	X	X	X
Kleinwaechter, Mathias		in-tech GmbH	X		X	
Kock, Joerg	NXP Semiconductors	NXP Semiconductors	X	X	X	X
Kumar, Niraj		NXP	X		X	
Lackner, Hans	QoSCom GmbH	QoSCom GmbH	X	X	X	X
Lasry, Ariel	Qualcomm Technologies, Inc	Qualcomm Technologies, Inc	X		X	
Lewis, Jon	Dell Technologies	Dell Technologies	X	X	X	X
Lo, William	Axonne Inc.	Axonne Inc.	X	X	X	X
Lou, Wei		Broadcom Corporation	X	X	X	X
Luo, Yuanqiu	Futurewei Technologies	Futurewei Technologies		X		X
Maguire, Valerie	Copperopolis	Copperopolis, affiliated with CME Consulting and Cisco	X	X		
Mark, Simon	Würth Elektronik Group	Würth Elektronik Group	X	X	X	X
Matheus, Kirsten	BMW Group	BMW Group	X		X	
McClellan, Brett	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X		X	
Muma, Scott		Microchip Technology, Inc.	X		X	

Name	Employer	Affiliation	IMAT		Webex	
			Day 1	Day 2	Day 1	Day 2
Murray, Brian	Analog Devices Inc.	Analog Devices Inc.	X	X	X	X
Ng, Hiok Tiaq	Aviva Links Inc.	Aviva Links Inc.	X	X	X	X
Niihara, Yoshihiro	Fujikura Ltd.	Fujikura Ltd.	X	X	X	X
Oberg, Mats	Marvell Semiconductor, Inc.	Marvell	X	X	X	X
Panguluri, Sessa	Broadcom Corporation	Broadcom Corporation	X	X	X	X
Paul, Michael	Analog Devices Inc.	Analog Devices	X	X	X	X
Pischl, Neven	Broadcom Corporation	Broadcom Corporation	X		X	
Potterf, Jason	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X		X
Razavi, Alireza	Marvell	Marvell	X		X	
Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated	X		X	
Schreiner, Stephan	Rosenberger Hochfrequenztechnik GmbH & Co. KG	Rosenberger	X	X	X	X
Sedarat, Hossein	Ethernovia	Ethernovia	X		X	
Sharma, Rohit		Molex Incorporated	X	X	X	X
Shiino, Masato	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC	X	X	X	X
Sisk, Jason	University of New Hampshire InterOperability Laboratory (UNH-IOL)	University of New Hampshire InterOperability Laboratory (UNH-IOL)	X	X	X	
Srivastava, Atul	NEL-America	NTT Electronics		X		
Sun, jingcong		Motorcomm Electronic Technology Co	X	X	X	X
Tanc, Ahmet	NXP Semiconductors	NXP Semiconductors	X		X	
Tazebay, Mehmet	Broadcom Corporation	Broadcom Corporation	X	X		X
Thompson, Geoffrey	GraCaSI S.A.	INDEPENDENT	X	X	X	X
Voss, Robert	Panduit Corp.	Panduit Corp.	X	X	X	X
Wang, Frank	Realtek Semiconductor Corp.	Realtek Semiconductor Corp.	X	X		
Wienckowski, Natalie	IVN Solutions LLC	IVN Solutions LLC; Ethernovia	X	X		
Wu, Dance	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X			
Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X		
Zerna, Conrad	Aviva Links Inc	Aviva Links Inc	X			
Zhang, Tingting	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X		
Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X			
Zimmerman, George	CME Consulting, Inc.	CME Consulting/ADI, APL Group, Cisco, Marvell, OnSemi, SenTekSe LLC, Sony	X	X		