

## Unconfirmed Meeting Minutes: Meeting of the IEEE P802.3da SPMD Task Force

March 13-14, 2023

Hybrid Plenary meeting

Prepared by Peter Jones

All times in USA Eastern Time

IEEE P802.3da SPMD Task Force meeting was convened at 1:00pm 13-Mar-23 by the chair, Chad Jones.

The meeting was held in person and electronically via WebEx.

Attendance is listed in Appendix A.

All presentations referenced in these minutes are located on the [Task Force Meeting Materials](https://www.ieee802.org/3/da/public/0323/index.html) site under the public page for this meeting <https://www.ieee802.org/3/da/public/0323/index.html>

Peter Jones was appointed as recording secretary for the meeting.

The Chair displayed and proceeded to review the agenda [https://www.ieee802.org/3/da/public/0323/8023da\\_agenda\\_2303.pdf](https://www.ieee802.org/3/da/public/0323/8023da_agenda_2303.pdf).

The agenda was approved at 1:03pm by unanimous consent.

This being a hybrid meeting, the Chair asked that the in-room participants introduce themselves.

The minutes from February 22, 2023 have not yet been posted, and will be posted after this meeting.

**Members of the Press**, at 1:12pm 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, IMAT, and the in-room attendance sheet.

At 1:14pm, 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 at 1:15pm. The call for patents was made and **none** responded.

### Presentations and Discussion:

At 1:21pm the Chair moved on to the presentations.

**Presentation: Editor's Report**

(Presented by George Zimmerman)

- [https://www.ieee802.org/3/da/public/0323/zimmerman\\_3da\\_02\\_031323.pdf](https://www.ieee802.org/3/da/public/0323/zimmerman_3da_02_031323.pdf)
- Starting at 1:22pm, George presented
- Starting at 1:32pm, questions were asked and answered.

**Late Presentation: Inductive compensation noise reduction**

(Presented by Wojciech Koczwara)

- <https://www.ieee802.org/3/da/public/0323/20230313%20WKoczwara%20Inductive%20compensation%20noise%20reduction.pdf>
- Starting at 1:33pm, Wojciech presented
- Starting at 1:50pm, questions were asked and answered.

**Presentation: Summary of Progress on Mixing Segment Specifications in 802.3da**

(Presented by George Zimmerman)

- [https://www.ieee802.org/3/da/public/0323/zimmerman\\_3da\\_01a\\_03092023.pdf](https://www.ieee802.org/3/da/public/0323/zimmerman_3da_01a_03092023.pdf)
- Starting at 2:03pm, George presented
- Starting at 2:45pm, questions were asked and answered.
- Break at 3:06pm, resume at 3:31pm after a short delay to reboot the meeting PC that crashed.
- Complete at 3:35pm.

Discussion of path forward

- Chair led discussion of the questions the group should address tomorrow.

**The chair called for any other topics to discuss, none heard.**

**Meeting recessed at 3:50pm, and will resume March 14 at 8:00am.**

**Meeting resumes March 14, 2023 at 8:05am**

**Presentation: Trunk Connection and Insertion Loss:**

(Presented by Chris DiMinico)

- [https://www.ieee802.org/3/da/public/0323/diminico\\_SPMD\\_01\\_0323.pdf](https://www.ieee802.org/3/da/public/0323/diminico_SPMD_01_0323.pdf)
- Starting at 8:08am, Chris presented
- Starting at 8:35am, questions were asked and answered.

Presentations and discussion concluded at 9:05am.

Discussion of path forward resumes at 9:06am.

- Chair led discussion of options for consideration by the group
- George Zimmerman proposed a set of straw polls to gauge consensus
  - [https://www.ieee802.org/3/da/public/0323/strawpolls\\_3da\\_01\\_03142023.pdf](https://www.ieee802.org/3/da/public/0323/strawpolls_3da_01_03142023.pdf)
  - Straw Poll #1
    - I support organizing the 802.3da specification so that any compensation for PHY loading is outside the specification of the mixing segment (i.e., within the DTE)
    - voting at 9:19am (totals are 'in room' + 'online')
      - Y: 24+4=28
      - N: 0+1=1
      - A: 2+3=5

- Straw Poll #2
  - I support eliminating stubs from the definition of the mixing segment, and permitting them (but not requiring them) to be implemented as part of the DTE
  - voting at: 9:26am
    - Y: 26+6=32
    - N: 0+1=1
    - A: 0+4=4
- Straw Poll #3
  - I support asking the editor to redraw Figure 168-17 to show the stubs as separate from the mixing segment and submitting draft text for 168.7 to represent the separation, and the relationship of the attachment to the rest of the PHY.
  - voting at: 9:36am
    - Y: 25+8=33
    - N: 0+0=0
    - A: 3+0=3
- Straw Poll #4
  - I support defining a trunk connection interface (TCI) point to connect the DTE to the medium, as described in zimmerman\_3da\_01\_03092023.pdf, with specified return loss looking into each of the media ports, insertion loss from one medium port to the other, and PHY PMA electrical parameters specified at the medium port reference planes.
  - voting at: 9:52am
    - Y: 20+7=27
    - N: 1+0=1
    - A: 4+2=6

Break – 9:53am-10:16am

Discussion of path forward resumes at 10:17am.

- Chair leads discussion of proposed timeline update (v5). The Chair stated that version 5 is the last revision of the timeline that he will entertain. The timeline includes a deadline of July '23 for new major features and November '23 for D1.0. If the draft doesn't make the required progress by November '23, the chair will make a motion to split the PAR, separating the completed items to allow them to move through the process. The remaining items that haven't made progress, will then have to undergo the scrutiny required to start a new project.
- Review of work items – the group reviewed the topics in the work items list and reaffirmed the owners. Several items have been determined as OBE or completed. The chair will publish a new, cleaned up list that results from the discussion. Attendees should use this list to find owners of items to help work to close them.
- Back to timeline – Motion to adopt the new timeline after reviewing the work items.
- Move to accept Slide 30 of [https://www.ieee802.org/3/da/public/0323/8023da\\_agenda\\_2303.pdf](https://www.ieee802.org/3/da/public/0323/8023da_agenda_2303.pdf) as the new Timeline (V5) for IEEE P802.3da
  - Technical >75%

- M: Peter Jones
- S: Bob Voss
- voting at: 10:56am
  - Passed by unanimous consent

Discussion of future meetings starts at 10:57am

- Next meeting at May Interim, no interim teleconferences scheduled.
  - Adhoc meeting(s) can be requested of the chair if needed to build consensus
- Link for May interim registration is live on the 802.3 meetings page
- Presentation dates
  - Requests no later than Monday 8 May 2023, 11:59pm AoE.
  - Presentations due on Thursday 11 May 2023, 11:59pm AoE.

The chair announced that he had exhausted the agenda and asked if there was any other agenda from the participants. None responded. Having exhausted the agenda, the chair adjourned the meeting.

**Meeting adjourned by The Chair at 11:04am.**

## Appendix A: IEEE P802.3da SPMD Task Force Attendance

Name	Employer	Affiliation	Attended 03/13 (webex)	Attended 03/14 (webex)	Attended 03/14 (Imat)	Attended March Plenary
Abbas Alwishah	Molex	Molex	y	y	y	y
Bob Voss	Panduit Corp.	Panduit Corp.			y	y
Brian Murray	Analog Devices Inc.	Analog Devices Inc.	y	y	y	y
Carlos Pardo	KDPOF	KDPOF		y		y
Chad Jones	Cisco Systems, Inc.	Cisco Systems, Inc.	y	y	y	y
Chris Diminico	MC Communications	PHY-SI/SenTekse			y	y
Clark Carty	Cisco Systems, Inc.	Cisco Systems, Inc.			y	y
Craig Chabot	UNH-IOL	UNH-IOL	y	y	y	y
David Brandt	Rockwell Automation	Rockwell Automation	y	y	y	y
Dayin Xu	Rockwell Automation	Rockwell Automation		y	y	y
Felix Fellhauer	Bosch	Bosch		y	y	y
Geoff Thompson	GraCaSI S.A.	Independent	y		y	y
George Zimmerman	CME Consulting	CME Consulting/APL Gp, Cisco, CommScope, Marvell, OnSemi, SenTekSe	y	y	y	y
Gergely Huszak	Self	Kone			y	y
Hans Lackner	QoSCom	QoSCom	y	y	y	y
Haysam M. Kadry	Molex	Molex	Y		y	y
Hideki Goto	Toyota	Toyota	y			y
Jack Zou (Meta)	Meta	Meta	y			y
James Gilb	GA-ASI, USD, Gilb Consulting	GA-ASI, USD, Gilb Consulting			y	y
James Withey	Fluke Corporation	Fluke Corporation	y		y	y
Jason Potterf	Cisco Systems, Inc.	Cisco Systems, Inc.	y	y	y	y
Jason Sisk	UNH-IOL	UNH-IOL	y		y	y
Joe Aronson	Texas Instruments	Texas Instruments		y	y	y
Keisuke Kawahara	Furukawa Electric	Furukawa Electric	y	y	y	y
Kent Lennartsson	Kvaser AB	Kvaser AB	y	y	y	y
Kirsten Matheus	BMW Group	BMW Group			y	y
Manabu Kagami	Nagoya Institute of Technology	Nagoya Institute of Technology	y			y
Masato Shiino	Furukawa	Furukawa	y	y		y
Masayuki Hoshino	Continental	Continental	y	y	y	y
Mehmet Tazebay	Broadcom	Broadcom		y	y	y
Michael Paul	Analog Devices Inc.	Analog Devices Inc.	y	y	y	y
Natalie Wienckowski	GM	GM	y	y	y	y
Paul Brooks	VIAVI	VIAVI		y		y
Paul Vanderlaan	UL LLC	UL LLC			y	y

Name	Employer	Affiliation	Attended 03/13 (webex)	Attended 03/14 (webex)	Attended 03/14 (Imat)	Attended March Plenary
Peter Fischer	BKS Kabel-Service AG	BKS Kabel-Service AG	y	y	y	y
Peter Jones	Cisco Systems, Inc.	Cisco Systems, Inc.	y	y	y	y
Piergiorgio Beruto	OnSemi	OnSemi		y		y
Qiyue Zou	Facebook	Facebook			y	y
Rich Boyer	Aptiv Signal and Power Solutions	Aptiv Signal and Power Solutions			y	y
Rob Aekins	Legrand	Legrand	y	y	y	y
Ron Tellas	Belden	Belden	y	y	y	y
Sami Akin	Volkswagen AG	Volkswagen AG	y	y	y	y
Steffen Graber	Pepperl+Fuchs	Pepperl+Fuchs	y	y	y	y
Stephan Schreiner	Rosenberger	Rosenberger	y	y	y	y
Sterling Vaden	Vaden Enterprises	Vaden Enterprises			y	y
Steve Carlson	High Speed Design, Inc.	HSD, Robert Bosch, Ethernovia	y	y	y	y
Thomas Hogenmueller	Robert Bosch GmbH	Robert Bosch GmbH			y	y
Thuyen Dinh	Pulse	Pulse			y	y
Tim Baggett	Microchip Technology, Inc.	Microchip Technology, Inc.			y	y
Tingting Zhang	Huawei	Huawei		y	y	y
Valerie Maguire	Copperopolis	Copperopolis			y	y
Victor Renteria	Bel Fuse	Bel Fuse	y	y	y	y
Wayne Larsen	CommScope	CommScope	y	y	y	y
Wojciech Koczwara	Rockwell Automation	Rockwell Automation	y		y	y
Yan Zhuang	Huawei	Huawei	y	y	y	y
Yoshihiro Niihara	Fujikura Ltd.	Fujikura Ltd.	y	y		y
Yuefeng Cai	Huawei	Huawei			y	y
Yumeng Yang	Huawei	Huawei		y		y
Attendee count			34	35	49	58

# IEEE P 802.3 DA Task Force Attendance

Initial to indicate attendance

By choosing to attend and sign in to this meeting, you acknowledge and agree that your personal data will be documented for IEEE standards development purposes to comply with policies and procedures, legal and accreditation requirements, and evaluation of patent claims by patent offices. IEEE must capture your personal data for these purposes, and will provide information about activities related to standards development groups in which you participate. IEEE standards development participation is documented through various methods, e.g., rosters, submission documents, email reflectors, records of meeting attendance, responses to ballots, publicly available participation lists, and declaration of affiliations. See the IEEE Privacy Policy at <https://www.ieee.org/security-privacy.html>.

Name	Employer	Affiliation	3/13	3/14
Chad Jones	CISCO	CISCO	✓	✓
George Zimmerman	CME Consulty	APL Emp, Cisco, Cambridge, Maxwell, Onken, Seibke	✓	✓
Valerie Maguire	Copperopolis	Copperopolis	✓	✓
JON LEWIS	DELL TECHNOLOGIES	"	✓	
Peter Jones	CISCO	CISCO	✓	✓
Yan ZHUANG	Huawei	Huawei	✓	✓
James Withey	Fluke	Fluke	✓	✓
Kent Lennartson	Kvaser AB	Kvase AB	✓	✓
BOB VOSS	PANDUIT	PANDUIT	✓	✓
GEOFF THOMPSON	GRACA S.I.	Independent	✓	✓
Paul Vanderlaan	UL Solutions	UL Solutions	✓	✓
STERLING VADEN	TE CONNECTIVITY	TE CONNECTIVITY	✓	✓
Kirsten Matheus	BMW	BMW	✓	✓
CLARK CARTY	CISCO	CISCO	✓	✓
Yasuhiro Hyabutahe	Orbray	Orbray	✓	
Jae-yong Chang	Keysight Technology	Keysight	✓	
JOE ARONSON	TEXAS INSTRUMENTS	"	✓	✓
WOJCIECH KOZWARA	ROCKWELL AUTOMATION	ROCKWELL AUTOMATION	✓	✓
Tim Baggett	microchip Technology	Microchip Technology	✓	✓
GERGELY HUSZALE	KONE	- - -	✓	✓

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Name	Employer	Affiliation	3/8	3/14		
Natalie Wienckowski	General Motors	General Motors	X	X		
STEVE CARLSON	HSD	Bosch/Ethicon	X	X		
Rich Boyer	APTIV	APTIV	X	X		
Nobuyasu Araki	Yazaki	Yazaki	X			
HAYSAM KADRY	Molex	Molex	X			
Abbas Alwishah	Molex	Molex	X			
Masato Shino	Furukawa Electric	Furukawa Electric	X	X		
Manabu Kagami	NITech	NITech	X			
Hideki Goto	Toyota Motor Corporation	Toyota Motor Corporation	X			
Michael Paul	Analog Devices	Analog Devices	X	X		
Jason Pottorf	Cisco	Cisco	X	X		
Thomas Hogenmülle	Bosch	Bosch	X			
DAVID LAW	HPE	HPE	X	X		
Ron Tellas	Belden	Belden	X			
THUYEN DINH	PULSE ELECTRONICS	PULSE	X	X		
PAUL NIKOLICH	PAUL NIKOLICH	PAUL NIKOLICH	X			
Haysam Kadry	molex	molex	}	X		
Abbas Alwishah	molex	molex		X		
ROB AERINS	LEGRAND	LEGRAND		X		