

Unconfirmed Meeting Minutes: IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY  
Task Force  
January 25-26, 2018  
Geneva, CH

Prepared by Jon Lewis

IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY Task Force meeting convened at 9:03 AM, Thursday, January 25, 2018 by David Law, Working Group Chair.

Attendance is listed in Appendix A

Administrative Matters

Mr. Law noted that Steve Carlson was not able to attend and Natalie Wienckowski would be running the meeting.

Mr. Law called for introductions and affiliations.

Mr. Law displayed the agenda in [agenda 3ch 01b 0118.pdf](#).

**Motion #1:** Move to approve the agenda as shown in [agenda 3ch 01b 0118.pdf](#)

**M: Brett McClellan S: Sujan Pandey**  
**Approved by voice without opposition (Procedural > 50%)**

**Motion #2:** Move to approve the minutes of the November 2017 IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY Task Force Meeting.

**M: Brett McClellan S: Sujan Pandey**  
**Approved by voice without opposition (Procedural > 50%)**

The Working Group Chair then resumed the review of presentation [agenda 3ch 01b 0118.pdf](#).

- Mr. Law noted that there should be no recording or photography without permission.
- Mr. Law asked if anyone was attending from the press including those who would run a public blog on this meeting. None responded.

The WG Chair reviewed the goals for the meeting, big ticket items, access to the reflector and website, and ground rules for the meeting.

**Attendance**, Mr. Law advised the group of the IEEE meeting attendance tool and procedures, including both the attendance book and the web attendance tracking tool.

The WG Chair reviewed the IEEE structure for standards development and the bylaws by which the Task Force is governed.

**IEEE Patent Policy**, at **9:17 AM**, Mr. Law noted that the patent slides have been updated and proceeded to read aloud slides 1 and 2. Mr. Law made the call for potentially essential patents at **9:18 AM**, and none responded. Mr. Law then read aloud slides 3 and 4.

Mr. Law asked if anyone had not seen slide 17 entitled "Participation in IEEE 802 Meetings". None responded. Mr. Law reinforced the key points from the slide.

The WG Chair reviewed the IEEE 802.3 Standards process and where the Task Force was in the process and the process by which we will develop the standard.

The WG Chair noted that no liaisons were received.

The WG Chair then showed the current objectives for the Task Force.

#### *PRESENTATIONS:*

Mr. Law then moved to the presentations for the meeting and handed the meeting over to Natalie Wienckowski.

**Title: Ad-Hoc Report ([zimmerman 3ch 01 0118.pdf](#))**

**Presenter: George Zimmerman, Commscope, Aquantia, CME Consulting, Cisco, ADI, BMW, APL Group**

The next Ad hoc meeting will be Wednesday, February 7, 2018, 7:00-9:00 AM Pacific Time. Additional meeting times to be announced via the reflector.

**Title: STP cable Analysis of insertion loss degradation in high temperature atmosphere ([kumada 3ch 01 0118.pdf](#))**

**Presenter: Taketo Kumada, YAZAKI**

**Title: Approach for Link Segment Transmission Parameter Definition ([Bergner DiBiao 3ch 01b 0118.pdf](#))**

**Presenter: Bert Bergner, TE Connectivity**

**Title: Multi-Gig PHY Emission Performance Investigation ([Pandey 3ch 01 0118.pdf](#))**

**Presenter: Sujan Pandey, NXP Semiconductors**

**Title:** NGAUTO Proposed Cable Limits ([wienckowski 3ch 01 0118.pdf](#))

**Presenter:** Natalie Wienckowski, General Motors

**The meeting broke for lunch at 10:54 AM.**

**The meeting resumed at 1:30 PM.**

**Title:** Temperature dependent cable characteristics and signaling implications  
([DenBesten 3ch 01a 0118.pdf](#))

**Presenter:** Gerrit W. den Besten, NXP

**Title:** Channel Requirements for Optimum/Robust PHY Design 10GBASE-T1  
([Farjad 3ch 01 0118.pdf](#))

**Presenter:** Ramin Farjadrad, Aquantia

**The meeting took a short break at 3:28 PM**

**The meeting resumed at 3:44 PM**

Natalie Wienckowski brought the meeting to order and continued discussion on the proposed Insertion Loss Limit.

**Motion #3:** Move to adopt the “Blue Limit Line” equation as shown on page 3 of Farjad\_3ch\_01\_0118.pdf as the insertion loss specification for all 3 speeds for frequencies from 5 MHz to 5.5 GHz.

**M:** Natalie Wienckowski **S:** Gerrit den Besten

**Y:** 23 **N:** 2 **A:** 8

**Motion Passes (Technical  $\geq$  75%)**

Natalie Wienckowski reviewed future meeting plans.

I am likely to attend 802.3ch at:

Attend March 2018 802 Rosemont, IL plenary:

**Y:** 22 **N:** 4 **M:** 6

Attend May 2018 interim, EA, Pittsburgh, PA, USA:

**Y:** 14 **N:** 1 **M:** 13

**The meeting took a short break to accommodate an ad hoc at 5:00 PM to resume at 5:45 PM.**

**The meeting resumed at 5:49 PM.**

After the short break members of the Task Force had reached consensus and the following presentation was shown.

**Title: Channel Requirements for Optimum/Robust PHY Design 10GBASE-T1**  
**([Farjad\\_3ch\\_01b\\_0118.pdf](#))**

**Presenter: Ramin Farjadrad, Aquantia**

**Motion #4: Move to adopt the return loss limit line equation as shown on slide 8 of Farjad\_3ch\_01b\_0118.pdf as the return loss specification for all 3 speeds.**

**M: Gerrit den Besten      S: Ramin Farjadrad**

**Y: 18 N: 0 A: 4**

**Motion Passes (Technical  $\geq$  75%)**

**The meeting recessed for the day at 6:03 PM.**

**The meeting resumed at 9:12 AM.**

Natalie Wienckowski called the meeting to order and asked for introductions from the Task Force.

Ms. Wienckowski reviewed the agenda in agenda\_3cg\_01\_0118.pdf.

- Ms. Wienckowski noted that there should be no recording or photography.
- Ms. Wienckowski asked if anyone was attending from the press including those who would run a public blog on this meeting. None responded.

Ms. Wienckowski reviewed the goals for the meeting, big ticket items, access to the reflector and website, and ground rules for the meeting.

**IEEE Patent Policy, at 9:15 AM,** Ms. Wienckowski asked if there were any attendees that had not seen the patent policy this week, none responded. Ms. Wienckowski then made the call for potentially essential patents at **9:16 AM**, and none responded.

Ms. Wienckowski reviewed the slide entitled “Participation in IEEE 802 Meetings” and asked if there was any discussion necessary, none responded.

**Title: IEEE802.3ch Timing and Next Steps ([Wienckowski\\_3ch\\_02\\_0118.pdf](#))**

**Presenter: Natalie Wienckowski, General Motors**

**Motion #5: Move to instruct the Chief Editor to create D0.2 from D0.1 and adopted baseline from motions in the January Interim.**

**M: Natalie Wienckowski S: Gerrit den Besten**

**Approved by voice without opposition (Procedural  $>$  50%)**

**Motion Passes**

Ms. Wienckowski noted that the agenda had been completed and asked if there was any further business.

**Adjournment**

**Motion #6: To adjourn the meeting.**

**M: Olaf Krieger    S: Matthias Fritsche**

**Approved by voice without opposition (Procedural > 50%)**

**Motion Passes**

**The Meeting was adjourned at 11:07 AM**

*Appendix A: Attendees at the IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY Task Force Meeting, January 25-26, 2018.*

IEEE P802.3ch Task Force Jan'18				1/25/18	1/26/18
Last Name	First Name	Employer	Affiliation	Thursday	Friday
Abedy	Yossuf	Pulse Electronics	Pulse Electronics	X	
Bergner	Bert	TE Connectivity	TE Connectivity	X	X
Brandt	David	Rockwell Automation	Rockwell Automation	X	
DaSlaats	Gin Ratrick	IEEE-SA	IEEE-SA		X
De Geest	Jan	Amphenol	Amphenol	X	
Donahue	Curtis	UNH - IOL	UNH - IOL	X	
Farjadrad	Ramin	Aquantia	Aquantia	X	
Fathi Moghadam	Borhan	Nvidia	Nvidia	X	
Flatman	Alan	LAN Technologies	LAN Technologies	X	X
Fritsche	Matthias	Harting	Harting	X	X
Goldberg	Jonathan	IEEE-SA	IEEE-SA	X	
Grau	Olaf	Robert Bosch	Robert Bosch	X	
Haifi	Wang	Kone	Kone	X	
Hogenmiller	Thomas	Bosch	Bosch	X	
Jones	Peter	Cisco	Cisco	X	
Kondo	Taiji	Megachips	Megachips	X	X
Krieger	Olaf	Volkswagen	Volkswagen	X	X
Kumada	Taketo	Yazaki	Yazaki	X	X
Law	David	Hewlett Packard Enterprise	Hewlett Packard Enterprise	X	X
Lewis	Jon	Dell   EMC	Dell   EMC	X	X
Madgar	Tzahi	Valens	Valens	X	X
Maguire	Valerie	Siemon	Siemon	X	

IEEE P802.3ch Task Force Jan'18				1/25/18	1/26/18
Last Name	First Name	Employer	Affiliation	Thursday	Friday
Marcus	Sun	Huawei	Huawei	X	
Marris	Arthur	Cadence	Cadence	X	
Masuda	Takeo	OITDA	OITDA	X	
Matheus	Kirsten	BMW	BMW	X	
McClellan	Brett	Marvell	Marvell	X	
Medina	Marcel	Spirent	Spirent	X	
Meier	Alexander	Volkswagon	Volkswagon	X	
Miller	Martin	Microchip	Microchip	X	
Nikolich	Paul	Self	802 Chair	X	
Ohni	Josef	MD Elektronik	MD Electronik	X	
Pandey	Sujan	NXP	NXP	X	X
Pardo	Carlos	KDPOF	KDPOF	X	
Roberts	Harold	Calix	Calix	X	
Rossbach	Martin	Nexans	Nexans	X	
Shariff	Masood	Commscope	Commscope	X	X
Sparrowhawk	Bryan	Leviton	Leviton	X	
Tanaka	Masahiro	Hirose Electric	Hirose Electric	X	X
Tazebey	Mehmet	Broadcom Lrd	Broadcom Lrd	X	
Vernickel	Ricky	Leoni	Leoni	X	X
Wang	Min	Waymo	Waymo	X	
Wechsler	Christoph	Audi	Audi	X	X
Wienckowski	Natalie	GM	GM	X	X
Withey	James	Fluke	Fluke	X	
Xu	Dayin	Rockwell Automation	Rockwell Automation	X	
Yun	Zhang	Huawei	Huawei	X	
Zerna	Conrad	Frannhofer IIS	Frannhofer IIS	X	X

IEEE P802.3ch Task Force Jan'18				1/25/18	1/26/18
Last Name	First Name	Employer	Affiliation	Thursday	Friday
Zimmerman	George	CME Consulting	Commscope, Aquantia, CME Consulting, Cisco, ADI, BMW	X	