

Unconfirmed Meeting Minutes: IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY
Task Force

March 7-8, 2018
Rosemont, IL Usa

Prepared by Jon Lewis

IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY Task Force meeting convened at 9:00 AM, Wednesday, March 7, 2018 by Steve Carlson, Task Force Chair.

Attendance is listed in Appendix A

Administrative Matters

Mr. Carlson called for introductions and affiliations.

Mr. Carlson displayed the agenda in [agenda 3ch 01 0318.pdf](#).

Motion #1: Move to approve the agenda as shown in [agenda 3ch 01 0318.pdf](#)

M: Brett McClellan

S: Sujan Pandey

Approved by voice without opposition (Procedural > 50%)

Mr. Carlson informed the Task Force that he would defer approving the minutes from January until Thursday morning.

The Task Force Chair then resumed the review of presentation [agenda 3ch 01 0318.pdf](#).

- Mr. Carlson noted that there should be no recording or photography **without permission**.
- Mr. Carlson 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. Carlson 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 **9:20 AM**, Mr. Carlson showed the patent slides and proceeded to read aloud slides 1 and 2. Mr. Carlson made the call for potentially essential patents at **9:23 AM**, and none responded. Mr. Carlson then read aloud slides 3 and 4.

Mr. Carlson showed slide 16 entitled "Participation in IEEE 802 Meetings" and proceeded to read the slide aloud. Mr. Carlson asked if there was any discussion on the slide, none responded.

The 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 Chair noted that no liaisons were received.

The Chair then showed the locations of the approved project documents for the Task Force.

Mr. Carlson reviewed slide 27-28 on presentation issues and noted that generally the group was following these guidelines.

PRESENTATIONS:

Mr. Carlson then moved to the presentations for the meeting.

Title: Ad-Hoc Report ([zimmerman 3ch 01a 0318.pdf](#))

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

Approval of the minutes was deferred until later in the meeting to allow additional review time.

The next Ad hoc meeting will be Wednesday, March 21, 2018, 7:00-9:00 AM Pacific Time. Additional meeting times to be announced via the reflector.

Straw Poll #1:

Straw poll – Choose your favorite. If both are okay you can vote for both.

WebEx: Wins Skype:

Title: Editors Report ([wienckowski 3ch 01 0318.pdf](#))

Presenter: Natalie Wienckowski, General Motors

Title: Automotive Environmental Requirements ([wienckowski 3ch 02a 0318.pdf](#))

Presenter: Natalie Wienckowski, General Motors

Title: Potential Multi-Gig Ethernet Topologies ([wienckowski 3ch 01a 022118.pdf](#))
Presenter: Natalie Wienckowski, General Motors

Title: Typical Automotive Harness Topologies ([krieger 3ch 01a 0318.pdf](#))
Presenter: Olaf Krieger, Volkswagen

The meeting broke for short break at 10:20 AM.

The meeting resumed at 10:50 AM.

The Chair called the meeting back to order and continued with the presentations for the meeting.

Title: POTENTIAL MULTI-GIG ETHERNET TOPOLOGIES ([oliver 3ch 01 0318.pdf](#))
Presenter: Doug Oliver, Ford Motor Company

Title: NGAuto Channel Modeling and Analysis ([DiBiaso 3ch 01b 0318.pdf](#))
Presenter: Eric DiBiaso, TE Connectivity

Title: P802.3ch channel parameter study ([mueller 3ch channel 02a 0318.pdf](#))
Presenter: Thomas Müller, Rosenberger

Title: Discussion of Cost in IEEE Standards (lindsay_01_0512_optx.pdf)
Presenter: David Law, Hewlett Packard Enterprise

Title: P802.3ch channel measurement results ([mueller 3ch 01 0318.pdf](#))
Presenter: Thomas Müller, Rosenberger

The meeting broke for short break at 11:56 AM.

The meeting resumed at 1:31 PM.

Title: Channel Selection Tradeoffs for Automotive 2.5G/5.0G/10Gbps
([Farjadrad 3ch 01d 0318.pdf](#))
Presenter: Ramin Farjadrad, Aquantia

Title: 3GHZ BANDWIDTH STP CABLES USE FOR 5/5/10GB/S SPEED GRADES
([grau 3ch 01c 0318.pdf](#))
Presenter: Olaf Grau, Robert Bosch

Title: 802.3CH ACHIEVABLE DATA RATES ([zerna 3ch 01b 0318.pdf](#))
Presenter: Conrad Zerna, Fraunhofer

Title: Impact of used frequency spectrum on the automotive harness
([krieger 3ch 02b 0318.pdf](#))
Presenter: Olaf Krieger, Volkswagen

The meeting broke for short break at 2:54 PM.

The meeting resumed at 3:22 PM.

The Chair called the meeting back to order and moved to the remaining presentation for the meeting.

Title: P802.3ch PHY Power and PoDL ([wienckowski_3ch_03_0318.pdf](#))

Presenter: Natalie Wienckowski, General Motors

Presentations concluded.

Future Meeting Straw Poll:

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

Y: 24 N: 0 M: 14

Attend July 2018 802 San Diego, CA plenary:

Y: 25 N: 1 M: 15

The Chair announced that after the meeting recesses for the day the room would be made available for ad hoc meetings for the remainder of the day. Notes from the ad hoc are located here: [wienckowski_3ch_04_0318.pdf](#)

The meeting recessed for the day at 4:50 PM.

The meeting resumed at 9:01 AM.

The Chair called the meeting to order and discussed future meeting presentation deadlines. Mr. Carlson then reviewed the [procedure for presenters](#).

Natalie Wienckowski then showed [P802_3ch_timeline_20180308.pdf](#) and discussion commenced about current progress of the Task Force.

Motion #2: Move to adopt the timeline as shown on page 3 of P802_3ch_timeline_20180308.pdf.

M: Natalie Wienckowski S: Sasha Babenko

Approved by voice without opposition (Procedural > 50%)

Motion #3: Move to adopt the "Environmental Requirements" as shown on pages 3-6 of wienckowski_3ch_02a_0318.pdf for Clauses 149 and 150.

M: Natalie Wienckowski S: Larry Matola

Y: 35 N: 0 A: 1

Motion Passes (Technical >= 75%)

Motion #4: Move to instruct the Chief Editor to create D0.3 from D0.2.2 and adopted baseline from the March Plenary.

M: Natalie Wienckowski **S:** Valerie Maguire

Approved by voice without opposition (Procedural > 50%)

Motion #5: Move to approve the minutes of the January 2018 IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY Task Force Meeting.

M: Sasha Babenko **S:** Natalie Wienckowski

Approved by voice without opposition (Procedural > 50%)

Motion #6: Move to approve the ad hoc minutes from February 7, 2018 and February 21, 2018.

M: Eric DiBiaso **S:** Doug Oliver

Approved by voice without opposition (Procedural > 50%)

The Chair asked if there was further business

Adjournment

Motion #7: To adjourn the meeting.

M: Mark Jansen **S:** Conrad Zerna

Approved by voice without opposition (Procedural > 50%)

Motion Passes

The Meeting was adjourned at 10:14 AM

Appendix A: Attendees at the IEEE P802.3ch Multi-Gigabit Automotive Ethernet PHY Task Force Meeting, March 7-8, 2018.

IEEE P802.3ch Task Force Mar'18				3/7/18	3/8/18
Last Name	First Name	Employer	Affiliation	Wednesday	Thursday
Babenko	Sasha	Molex, LLC	Molex, LLC	X	X
Braun	Rolf-Peter	Deutsche Telecom	Deutsche Telecom		X
Brownlee	Phillip	TDK	TDK	X	X
Carlson	Steve	High Speed Design	Robert Bosch	X	X
Carty	Clark	Cisco	Cisco	X	
Caudron	Cedric	Aptiv	Aptiv	X	
Dachin	Tseng	Realtek	Realtek	X	X
DiBiaso	Eric	TE Connectivity	TE Connectivity	X	X
Donahue	Curtis	UNH - IOL	UNH - IOL	X	
Eyal	Massad	Valens	Valens	X	
Farjadrad	Ramin	Aquantia	Aquantia	X	
Fathi Moghadam	Borhan	Nvidia	Nvidia	X	X
Fritsche	Matthias	Harting	Harting	X	X
Gardner	Mike	Molex, LLC	Molex, LLC	X	X
Gauthier	Claude	OmniPHY	OmniPHY	X	
Grau	Olaf	Robert Bosch	Robert Bosch	X	X
Guangjun	Miao	Mediatek	Mediatek	X	X
Haynes	Hayden	UNH-IOL	UNH-IOL	X	X
Hess	Dave	Cord Data	Cord Data	X	X
Horner	Rita	Synopsys	Synopsys	X	
Jansen	Mark	Innovation Core SEI, Inc.	Innovation Core SEI, Inc.	X	X
Kim	Andrew	Spectra7 Microsystems	Spectra7 Microsystems	X	

IEEE P802.3ch Task Force Mar'18				3/7/18	3/8/18
Last Name	First Name	Employer	Affiliation	Wednesday	Thursday
Kinchi	Hideki	JAE	JAI	X	
Kondo	Taiji	Megachips	Megachips	X	X
Krieger	Olaf	Volkswagen	Volkswagen	X	X
Lackner	Hans	QoSCom Gmbh	QoSCom Gmbh	X	X
Law	David	Hewlett Packard Enterprise	Hewlett Packard Enterprise	X	
Lewis	Jon	Dell EMC	Dell EMC	X	X
Lin	Alex	Mediatek	Mediatek	X	X
Madgar	Tzahi	Valens	Valens	X	X
Maguire	Valerie	Siemon	Siemon	X	X
Matheus	Kirsten	BMW	BMW	X	
Matola	Larry	Aptiv	Aptiv	X	X
McClellan	Brett	Marvell	Marvell	X	
McMillian	Larry	Western Digital	Western Digital	X	
Medina	Marcel	Spirent	Spirent	X	
Miller	Martin	Microchip	Microchip	X	
Moritake	Toshijuki	JAE	JAE	X	
Mueller	Thomas	Rosenberger	Rosenberger		X
Ohni	Josef	MD Elektronik	MD Elektronik	X	X
Oliver	Doug	Ford Motor Co.	Ford Motor Co.	X	X
Pandey	Sujan	NXP	NXP	X	X
Patel	Harsh	Molex, LLC	Molex, LLC	X	X
Renteria	Victor	Bel Fuse Inc.	Bel Fuse Inc.	X	X
Ressl	Michael	Hitachi Cable America	Hitachi Cable America	X	X
Rubino	Litsa	Delphi	Delphi	X	X
Schuessler	Jim	Samsung Electronics	Samsung Electronics	X	X

IEEE P802.3ch Task Force Mar'18				3/7/18	3/8/18
Last Name	First Name	Employer	Affiliation	Wednesday	Thursday
Shariff	Masood	Commscope	Commscope	X	X
Shigematsu	Masayuki	Innovation Core SEI, Inc.	Innovation Core SEI, Inc.	X	X
Slaats	Patrick	IEEE-SA	IEEE-SA	X	
Smith	Dan	Seagate	Seagate	X	
Souvignier	Tom	Broadcom Ltd.	Broadcom Ltd.	X	
Sparrowhawk	Bryan	Leviton	Leviton	X	X
Sun	Marcus	Huawei	Huawei	X	
Tazebay	Mehmet	Broadcom Ltd.	Broadcom Ltd.	X	X
Vaden	Sterling	Surtec, Ind.	Vaden Enterprises	X	X
Vanderlaan	Paul	Berk-Tek LLC	Berk-Tek LLC		X
Vernickel	Ricky	Leoni	Leoni	X	X
Wienckowski	Natalie	GM	GM	X	X
Wu	Peter	Marvell	Marvell	X	X
Zerna	Conrad	Frannhofer IIS	Frannhofer IIS	X	X
Zhang	Yun	Huawei	Huawei	X	
Zimmerman	George	CME Consulting	Commscope, Aquantia, CME Consulting, Cisco, ADI, BMW, APL Group	X	
Zivny	Pavel	Tektronix	Tektronix	X	