

Minutes IEEE P802.3ch Multigig Automotive Ethernet PHY TF AdHoc meeting August 22, 2018

Prepared by George Zimmerman

Proposed Agenda:

1. Agenda/Admin: George Zimmerman, agenda_3chah_01_082218.pdf
2. SG Chair's comments: no presentation
3. Presentations:

Optional Fixed Precoder	Tom Souvignier	Broadcom
Converging on Framing and Training	Mike Tu	Broadcom
Pulses in automotive environment - Based on IEC 61000-4-2 and ISO 7637	Olaf Krieger	Volkswagen, AG

4. Discussion & Next steps – All

[See adhoc webpage for agenda deck and presentations](#)

Agenda/Admin George Zimmerman acting as ad hoc chair:

Meeting began at 7:05 am PT.

Introductions & Affiliations.

Presented file: [agenda 3chah 01 082218.pdf](#)

1. Reviewed the Attendance information related to the ad hoc.
2. Displayed the Participation slide and reviewed it.
3. Displayed patent slide deck, and reviewed it.
Call for Patents was made at 7:11 am Pacific Time, none responded
4. Reminded participants to indicate full names and employer/affiliation for the meeting minutes.

Instructions for subscribing to the reflector may be found at <http://www.ieee802.org/3/ch/reflector.html>. If you cannot subscribe to the reflector for some reason, and need additional assistance please contact the Task Force chair.

Chair's/Chief Editor's Comments – Natalie Wienckowski, Chief Editor

Steve Carlson

Natalie Wienckowski – Review on D0.5 are due on September 2nd. Please provide comments on time or early as this is only 1 week before the Interim in Spokane.

See Steve Carlson's email for deadlines to request a presentation and provide the presentation for the September Interim.

Presentations/Discussion:

Presentation: Optional Fixed Precoder, Tom Souvignier, Broadcom

[souvignier 3ch 01 0818.pdf](#)

The presenter discussed adding a Precoder to reduce noise propagation. Proposals are used in other IEEE802.3 projects. It was proposed that it may be desirable to have a default filter as OEMs may not want to have to select this. The response was that the PHY vendor receiver would indicate to the transmitter which filter it wanted and the user would not have to deal with this.

Presentation: Converging on Framing and Training, Mike Tu, Broadcom

[tu 3ch 01 0818.pdf](#)

The presenter discussed the decisions that still need to be made for the specification and their preferences for many of these items. They also requested that if there will be new/additional proposals at the Interim, that they are shared ahead of time so that there is time to analyze them prior to Spokane. Our goal is to finalize this during our meeting in Spokane.

Presentation: Pulses in automotive environment - Based on IEC 61000-4-2 and ISO 7637, Olaf Krieger, Volkswagen

[krieger 3ch 01 0818.pdf](#)

The presenter discussed the noise pulses that can be seen in an automobile as defined by IEC and ISO and discussed which ones they thought might be relevant to Multi-Gig Automotive PHYs.

Closing Business

Participants were advised to keep discussion going to pre-circulate and preview issues for the plenary meeting via the reflector, but that there would be one more ad hoc prior to the interim.

Meeting adjourned at 7:57 AM PT.

Attendees (from Webex + emails)

(need to confirm affiliation/attendance of highlighted attendee)

First	Last	Affiliation
Jim	Bauer	marvell
Clark	Carty	cisco
Sean	Chiang	mediatek
Gerrit	denBesten	NXP
Eric	DiBiaso	te

Michael	Dörndl	md-elektronik
Ramin	Farjadrad	aquantia
German	Feyh	broadcom
Matthias	Fritsche	Harting
Marty	Gubow	Keysight
Craig	Gunther	Harman
Matthias	Jaenecke	Yazaki
Taiji	Kondo	megachips
Olaf	Krieger	VW
Paul	Langner	aquantia
William	Lo	Axonne
Larry	Matola	aptiv
Brett	McClellan	marvell
Waseem	Mir	aptiv
Henry	Muyshondt	Microchip
Paul	Neveux	Superior Essex
Douglas	Oliver	ford
Tom	Souvignier	broadcom
Geoff	Thompson	Unemployed/unaffiliated
Mike	Tu	broadcom
Natalie	Wienckowski	GM
Peter	Wu	marvell
George	Zimmerman	CME Consulting/ADI, APL Group, Aquantia, BMW, Cisco, Commscope
TOTAL	28	Attendees