

# Minutes IEEE P802.3ch Multigig Automotive Ethernet PHY TF AdHoc meeting February 27, 2019

Prepared by George Zimmerman

## Proposed Agenda:

1. Agenda/Admin: George Zimmerman, [agenda\\_3chah\\_01\\_022719.pdf](#)
2. TF Chair's comments: no presentation
3. Presentations:

Title	Presenters(s)	Affiliation(s)
Agenda	George Zimmerman	CME Consulting/ADI, APL Group, Aquantia, BMW, Cisco, CommScope
TF Chair's Comments / Chief Editor's comments	Steve Carlson/ Natalie Wienckowski	High Speed Design and Robert Bosch GmbH General Motors, NA
Proposed Asymmetric Lows Power Modulation	William Lo	Axonne
Draft 1.1 Proposed Comment Details	William Lo	Axonne
Review of comments on d1p1 and the to-do-list	Natalie Wienckowski	General Motors, NA

4. Discussion & Next steps – All

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

## Agenda/Admin George Zimmerman as ad hoc chair:

Meeting began at 7:08 am PT.

## Introductions & Affiliations.

### Presented file: [agenda\\_3chah\\_01\\_022719.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 7:14 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.

### **Chief Editor's Comments –Natalie Wienckowski**

Natalie shared the 'to do list' and updated during the meeting, and discussed that comments on d1.1 had been received and proposed resolutions were going to come out shortly. Participants are invited to review the todo list (reflecting D1.1 comments) and look to fill in any holes.

See the updated list at [http://www.ieee802.org/3/ch/todo/P802\\_3ch\\_Timeline\\_status\\_022619.xlsm](http://www.ieee802.org/3/ch/todo/P802_3ch_Timeline_status_022619.xlsm)

### **Presentations/Discussion:**

#### **Presentation: Proposed Asymmetric Low Power Modulation, William Lo, Axonne**

The presenter proposed a 10 Mbps low frequency Manchester modulation for low rate transmission, along with a framing format, with the slave only transmitting when it had data (if the slave was the low rate end). This built on a presentation from the prior ad hoc approaching asymmetric operations by slowing the baud rate in one direction and saving additional power by disabling the digital receiver's echo canceller.

Participants asked questions regarding how the master would know whether the slave was still attached if it had nothing to send, how timing recovery would work when the low frequency end was the master, and how the referenced EEE power savings presented might compare to today's IC design processes.

#### **Discussion: Pre-meeting editor's report: Natalie Wienckowski**

[http://www.ieee802.org/3/ch/public/adhoc/wienckowski\\_3ch\\_01a\\_022719.pdf](http://www.ieee802.org/3/ch/public/adhoc/wienckowski_3ch_01a_022719.pdf)

Natalie reviewed the comments received and gave a preview of her Editor's report for D1.1.

### **Closing Business**

Steve Carlson reminded the group that the deadline for presentation requests was Thursday (Feb 28) with presentations due Tuesday the following week (Mar 5).

Meeting adjourned at 8:40 AM PT.

### **Attendees (from Webex + emails)**

<b>First</b>	<b>Last</b>	<b>Affiliation</b>
Jim	Bauer	marvell
Saied	Benyamin	Aquantia
Rich	Boyer	Aptiv
Phillip	Brownlee	TDK
Kamal	Dalmia	Dryv.io
Gerrit	denBesten	NXP
Eric	DiBiaso	TE

Dominik	Eberl	Draexlmaier
German	Feyh	Broadcom
Jim	Graba	Broadcom
Craig	Gunther	Craig Gunther Consulting/Independent
Taiji	Kondo	Megachips
William	Lo	Axonne
Wes	Mir	Aptiv
Jim	Nadolny	Samtec
Josef	Ohni	Md-elektronik
Douglas	Oliver	Ford
Sujan	Pandey	NXP
Alireza	Razavi	Aquantia
Hossein	Sedarat	Ethernovia
Masood	Shariff	Commscope
Tom	Souvignier	Broadcom
Geoff	Thompson	GraCaSi/Independent
Mike	Tu	Broadcom
Dong	Wei	Huawei
Natalie	Wienckowski	GM
peter	wu	marvell
Allan	Zhu	Huawei
George	Zimmerman	CME Consulting/ADI, Aquantia, APL Group, BMW, Cisco, Commscope, SenTekse
<b>TOTAL</b>	<b>29</b>	<b>Attendees</b>