# Minutes IEEE P802.3ch Multigig Automotive Ethernet PHY TF AdHoc meeting August 23, 2017

Prepared by George Zimmerman

## Proposed Agenda:

1. Agenda/Admin: George Zimmerman, agenda_3chah_01_082317.pdf
2. SG Chair's comments: Steve Carlson, no presentation
3. Presentations:
   a. MultiGig Auto-PHY Block Code Considerations – Brett McClellan, Marvell
4. Discussion & Next steps – All

**Presentations were posted to the adhoc webpage the evening before**

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

Meeting began at 7:05am PT.

## Introductions & Affiliations.

## Presented file: agenda_3chah_01_082317.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 7:14AM Pacific Time, none responded
4. Reminded participants to indicate full names and employer/affiliation for the meeting minutes.

The reflector and website are now up, and we are now using the NGAUTO reflector. 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.

Files will be posted under the new Task Force ad hoc area.

## Presentations/Discussion:

**Chair's Comments & Discussion  Steve Carlson, Chair, IEEE P802.3ch Task Force:** Steve welcomed the group and discussion moved to the cabling data needed and formats requested for 802.3ch PHY studies.

## Presentation: Brett McClellan, MultiGig Auto-PHY Block Code Considerations (McClellan_3ch_01_0817.pdf)

The presenter discussed issues of block coding used in the PCS for the MultiGig PHY, reviewing 1000BASE-T1 and other BASE-T PHYs. The presenter recommended that the 80/81B blocking used in 1000BASE-T1 would be undesirable because of its linkage to GMII mapping, whereas the multigig PHYs would likely use an XGMII interface, and therefore, basing on 64/65B or 64/66B would be preferable, perhaps with transcoding to a more efficient mapping if a large block FEC were used.

## Additional Item:

George Zimmerman discussed that there appears to be a typo in the single-pair auto-negotiation state diagram (Figure 98-8) of IEEE 802.3bp-2016. On 4 transition arc's, logical "AND"s (*) had been replaced with logical "OR"s in the figure. This appears to have been introduced during a redrafting of the figure going from D2.0 to D2.1 in the 802.3bp working group ballot, and is without a comment. It was found by Mehmet Tazebay, and a description of the issue, its history, and the proposed fix were sent to the NGAUTO and 10SPE reflectors for review. There was no dissent on the call, and some agreement that the error was, in fact, a typo.

## Closing Business

Next meeting scheduled for 9/6 – subject to contributions.

Meeting closed –7:58 am PT

## Attendees (from Webex + emails)

| First | Last | Affiliation |
| --- | --- | --- |
| Dale | Amason | Nxp |
| Tobias | Belitz | Renesas |
| Rich | Boyer | Delphi |
| David | Brandt | Rockwell Automation |
| Clark | Carty | Cisco Systems |
| Eric | DiBiaso | TE |
| Dominik | Dorner | Leoni |
| Ramin | Farjad | aquantia |
| Frank | Flens | Finisar |
| Matthias | Fritsche | Harting |
| Olaf | Grau | Bosch |
| Yasuhiro | Hyakutake | Adamant |
| Matthias | Jaenecke | yazaki-europe |
| Dave | Jeskey | Sentinel Connector |
| Haysam | Kadry | Ford |
| Phil | Kelly | Delphi |
| Dongok | Kim | Hyundai |
| David | Law | HPE |

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|---|---|---|
| Tzahi | Madgar | Valens |
| David | Malicoat | Senko |
| Kirsten | Matheus | BMW |
| Brett | McClellan | Marvell |
| Wes | Mir | Delphi |
| Henry | Muyshondt | Microchip |
| Douglas | Oliver | Ford |
| Sujan | Pandey | Nxp |
| Phong | Pham | Usconec |
| Vimalli | Raman | yazaki-europe |
| Hossein | Sedarat | aquantia |
| Masood | Shariff | Commscope |
| Yves | Stricot | Delphi |
| Alexander | Umnov | Corning |
| Lisa | Ward | Rohde-Schwarz |
| Natalie | Wienckowski | GM |
| Peter | Wu | Marvell |
| Kent | Younglove | Yazaki-US |
| John | Yurtin | Delphi |
| George | Zimmerman | CME Consulting |
| Helge | Zinner | Continental |
| Damien | Quenson | Acome |
| | | |
| TOTAL | 40 | Attendees |