

Minutes IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet PHY TF AdHoc meeting August 10, 2021

Prepared by Natalie Wienckowski

Proposed Agenda:

Title	Presenters(s)	Affiliation(s)
Agenda	Natalie Wienckowski (ad hoc Chair)	General Motors
TF Chair's Comments	Steve Carlson	High Speed Design, Robert Bosch GmbH, Ethernovia
Values for Micro-Reflection Limit	Ragnar Jonsson	Marvell
Parameters for PHY analyses	George Zimmerman	CME Consulting, Inc., Marvell
P802.3cy ECU Power Requirements	Natalie Wienckowski Haysam Kadry	General Motors Ford Motor Company
P802.3cy To-do list	Natalie Wienckowski	General Motors
Closing Remarks	Steve Carlson	High Speed Design, Robert Bosch GmbH, Ethernovia

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

Agenda/Admin Natalie Wienckowski as ad hoc chair:

Meeting began at 10:04 am ET.

Introductions & Affiliations.

Presented file: [cy Task Force adhoc agenda 08 10 21.pdf](#)

1. Reviewed the Attendance information related to the ad hoc.
2. Displayed patent slide deck and asked if any participant had not read the IEEE-SA Patent Slides slide set, none responded.
Call for Patents was made at 10:10 am Eastern Time, none responded
3. Displayed the IEEE-SA Copyright policy slide and asked if any participant had not read the IEEE copyright slide set, none responded.
4. Displayed the IEEE-SA Participation slide and reviewed it.
5. 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/cy/reflector.html>. If you cannot subscribe to the reflector for some reason, and need additional assistance please contact the Task Force chair.

Chair's comments: None, TF Chair is unable to attend today's meeting.

Presentations/Discussion:

Presentation: Values for Micro-Reflection Limit (Ragnar Jonsson, Marvell)

Ragnar presented proposed values for the micro-reflection text and equation 9 previously approved with TBDs. Proposals for equation 10 will be provided in a future presentation.

There are questions on how some of the Table 1 values were selected. Ragnar may provide a future presentation that goes into the detail of this.

We still need Matlab code to allow s4p files to be converted to be used in the micro reflection calculator Ragnar created.

Presentation: Parameters for PHY analyses (George Zimmerman; CME Consulting, Inc., Marvell)

George presented some parameters for discussion to try to get agreements to be used for future modulation calculations to aid in coming to a consensus on the best modulation choice for P802.3cy. He explained what the metric may impact and/or why having a common value for calculations is important.

We then went through the presentation with participants to determine if assumptions George listed are correct and agreed to.

It may be important to add requirements or an informative annex on grounding requirements for the shield on the PCB as this is important for the containment of noise.

Please keep these parameters in mind while updating your modulation.

The presentation was updated during the meeting. The result is available here: [Parameters for PHY analyses_mtg output](#)

Presentation: P802.3cy ECU Power Requirements (Natalie Wienckowski, General Motors; Haysam Kadry, Ford Motor Company)

Natalie presented information on minimum power needed per pair of P802.3cy link.

There is a question as to how much of the power does the imager require?

At least 9V is required at the sensor so the voltage provided today from the power supply device is generally a regulated 11V to 10V today depending upon the length of the cable to sensor.

Presentation: P802.3cy To-do list usage (Natalie Wienckowski, General Motors)

The to-do list was not reviewed during the meeting; however, it was updated to reflect a presentation that was delayed until next week. Participants are urged to review the list for topics they can support and for missing topics. Please send a message to the reflector with requested changes to the list.

The current list can be found on this page: [To Do spreadsheets](#)

Closing Discussion

George requested that people email him (george@cmephyconsulting.com) with their thoughts on what F2F or hybrid meetings should look like in the future. He is looking for feedback to provide for the 802 board.

- Do you have governmental and/or health issues that might prevent you to attend a meeting in person?
- If you are asked to attest that you are vaccinated to attend a meeting (would not ask to show proof) would this
 - Increase your likelihood of attending
 - Decrease your likelihood of attending
 - Have no impact

Meeting adjourned at 12:05 PM ET.

Attendees (download participant list, email)

First	Last	Affiliation
Alireza	Razavi	Marvell
Brett	McClellan	Marvell
Curtis	Donahue	Rohde & Schwarz)
Dan	Kennefick	Daikin America
Dave	Hess	Cord Data
Emilio	Cuesta	TE Connectivity
Eric	DiBiaso	TE Connectivity
Erwin	Köepfendorfer	Leoni Kabel GmbH
George	Zimmerman	CME Consulting / ADI, APL Group, Cisco Systems, CommScope, Marvell, SenTekSe
German	Feyh	Broadcom
Giuseppe	Tofanicchio	ST
Haysam	Kadry	Ford
Jim	Graba	Broadcom
Jonathan	Silvano de Sousa	GG - Austria
Kamal	Dalmia	Aviva Links
Kambiz	Vakilian	Broadcom
Keisuke	Kawahara	FURUKAWA ELECTRIC
Louise	Yi	FIT
Martin	Glanzner	SEI ANTech Europe GmbH
Matthew	Ronning	Sony
Mike	Tu	Broadcom
Natalie	Wienckowski	General Motors

First	Last	Affiliation
Peter	Wu	Marvell
Ragnar	Jonsson	Marvell
Rich	Boyer	Aptiv
Sami	Akin	VW
Stefan	Andrä	SEI ANTech – Europe GmbH
Sujan	Pandey	Huawei
Taiji	Kondo	MegaChips
Yoshihiro	Niihara	Fujikura Ltd.
TOTAL	30	Attendees