Minutes IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet PHY TF AdHoc meeting June 22, 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
Return Loss Limit Proposal	Eric DiBiaso, Emilio Cuesta Thomas Müller	TE Connectivity Rosenberger
802.3cy Link Segment IL Baseline Proposal	Chris DiMinico Haysam Kadry	(MC Communications/PHY-SI LLC /Panduit/SenTekse) Ford
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 10:03 am ET.

Introductions & Affiliations.

Presented file: cy_Task_Force_adhoc_agenda_06_22_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 10:13 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 at this time.

Presentations/Discussion:

Presentation: Return Loss Limit Proposal (Eric DiBiaso & Emilio Cuesta, TE Connectivity; Thomas Müller, Rosenberger)

Emilio presented RL measurements on various link segments with in-line connectors.

Thomas presented some data on RL based on link segment simulations, including in-line connectors. The cable impedance was varied between cable segments from 97 to 103 ohms.

A proposed RL limit based on both the measured and simulated link segments was shown.

Note: At this time, N is not being considered. N was used in P802.3ch to allow higher RL for low IL (short cables).

On slide 9, it appears that there is a lot of margin, except at 7.5GHz which may be due to a suck-out.

The simulated data does not include a suck-out in the cable.

Presentation: 802.3cy Link Segment IL Baseline Proposal (Chris DiMinico, MC Communications/PHY-SI LLC/Panduit/SenTekse ; Haysam Kadry, Ford)

Chris presented a proposed IL limit and proposed motion for the July Plenary.

If there is a desire to have a relaxed limit below 100MHz, please plan to present this information during the June 29th meeting.

Currently there is no plan to modify the IL limit to accommodate a suck-out.

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

The to-do list was reviewed and updated. A new tab has been added with tasks to get to D1.0. 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

Please register for the July Plenary. This is required to join the planned July 13th and 20th P802.3cy meetings.

Meeting adjourned at 11:30 AM ET.

Attendees (download participant list, email)

First	Last	Affiliation
Brett	McClellan	Marvell
Chris	DiMinico	MC Communications, PHY-SI, SenTekse / Panduit
Christian	Neulinger	MD Elektronik

First	Last	Affiliation
Clark	Carty	Cisco
Dan	Kennefick	Daikin America
Dave	Hess	Cord Data
Doug	Oliver	Ford
Erwin	Köeppendörfer	Leoni Kabel GmbH
George	Zimmerman	CME Consulting / ADI, APL Group, Cisco Systems, CommScope, Marvell, SenTekSe
Harsh	Patel	Molex
Haysam	Kadry	Ford
Heidi	Simmons	Daikin America
Hossein	Sedarat	Ethernovia
Istvan	Bakro Nagy	EFFECT Photonics
Jae-yong	Chang	Keysight
Jim	Graba	Broadcom
Jonathan	Silvano de Sousa	GG - Austria
Kambiz	Vakilian	Broadcom
Keisuke	Kawahara	FURUKAWA ELECTRIC
Louise	Yi	FIT
Makoto	Nariya	Sony
Manabu	Kagami	NITech (Nagoya Institute of Technology)
Martin	Glanzner	SEI ANTech Europe GmbH
Mike	Tu	Broadcom
Natalie	Wienckowski	General Motors
Nobuyasu	Araki	Yazaki
Peter	Wu	Marvell
Rich	Boyer	Aptiv
Ryan	Petrarca	TDK
Shao-Chieh	Yu	FIT
Steve	Carlson	High Speed Design, Robert Bosch GmbH, Ethernovia
Sujan	Pandey	Huawei
Taiji	Kondo	MegaChips
Terry	Little	Foxconn Interconnect Technology
Thomas	Müller	Rosenberger
Yang	Yumeng	Huawei
Yoshihiro	Niihara	Fujikura Ltd.
TOTAL	**37**	**Attendees**