Minutes IEEE P802.3ch Multigig Automotive Ethernet PHY TF Harness AdHoc meeting October 9, 2017

Prepared by Natalie Wienckowski

Proposed Agenda:

1. Agenda/Admin: Natalie Wienckowski, agenda in meeting invitation
    a. For Triaxial tube coupling attenuation measurements, should renormalizing to 150 ohms be performed
    b. "Link Segment" measurements – should each component be measured individually and then be put together to create composite curves for IL, RL, MC, etc. or should a complete harness be measured including header connectors on PCBs?
2. TF Chair's comments: Steve Carlson, no presentation
3. Presentations:
    a. Response to questions – Thomas Mueller, Rosenberger
4. Discussion & Next steps – All

Presentations were posted to the adhoc webpage the evening before

Agenda/Admin Natalie Wienckowski acting as ad hoc chair:

Meeting began at 7:00am PT.

Introductions & Affiliations.

Presented file: agenda_3chah_01a_100417.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 7:09AM 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.

Presentations/Discussion:

Chair's Comments & Discussion Steve Carlson, Chair, IEEE P802.3ch Task Force: Steve welcomed the group and discussion moved to the discussion topics from the meeting notice.

Presentation: Answers to discussion topics – Thomas Mueller, Rosenberger

The presenter shared his thoughts on the 150 ohm renormalization.
The group decided that the 150 ohm renormalization should be performed as this is part of the standard test procedure and would reduce the chance for confusion or errors.

The presenter suggested that testing should be done on individual components, not on harness systems.

The group determined that, when possible, in-line connectors should be tested with cable with the setup proposed on Slide 4 of http://www.ieee802.org/3/ch/public/adhoc/Measurement%20of%20Coupling%20Attenuation%20for%20NGAUTO.pdf without the use of the inner tube. Testing will be done with both 1 and 3 m tubes, as shown on slide 5 of this presentation, without the inner tube.

Not all suppliers can test the defined cable assemblies with in-lines as they don't have these available at this time. In this case, suppliers may test cables or connecters independently, as defined by the presenter.

Additional Item:

Additional discussion will need to be held regarding how to test PCB header connectors with metal and plastic housings. Metal coated plastic housings should also be investigated. This will be discussed during an upcoming ad-hoc call or potentially during the November plenary meeting, time permitting.

We reviewed the types of cable to concentrate on for the testing as defined on pages 4 and 8 of http://www.ieee802.org/3/ch/public/jul17/Wienckowski_3ch_01b_0717.pdf.

The following were on the call and will provide presentations with test data at the November Plenary: Delphi, Leoni, Molex, Rosenberger, TE and Yazaki.

Steve requested that presenters contact him ASAP with the name of the presenter and planned topic so that he can work on the agenda, (the deadline is October 26th.) If your presentation may be late (after October 30th) please let Steve know and he should be able to accommodate your presentation as long as you requested time prior to the deadline. FYI - It is better to send a final presentation with all data in it late, than to send it on time then update it multiple times.

Closing Business

Meeting closed –8:28 am PT

Attendees (from Webex + emails)

First	Last	Affiliation
Matthias	Jaenecke	yazaki-europe
Litsa	Rubino	Delphi
Rainer	Pöhmerer	Leoni
John	Yurtin	Delphi
Eric	DiBiaso	TE
Steve	Carlson	High Speed Design

Natalie	Wienckowski	GM
Evan	Jones	Molex
Wes	Mir	Delphi
Rich	Boyer	Delphi
Ivan	Vukosav	yazaki-europe
Vimalli	Raman	yazaki-europe
Jean	Razafiarivelo	Delphi
Thomas	Müller	Rosenberger
Geoff	Thompson	Independent
Douglas	Oliver	Ford
Kurt	Seifert	Delphi
Larry	Matola	Delphi
Litsa	Rubino	Delphi
Haysam	Kadry	Ford
Yves	Stricot	Delphi
TOTAL	21	Attendees