Minutes IEEE 802.3cg 10SPE TF AdHoc meeting 26 April 2017

Prepared by Peter Jones

Proposed Agenda:

1.   Agenda/Admin   Peter Jones

Presentations posted at:

http://www.ieee802.org/3/cg/public/adhoc/index.html

Agenda/Admin Peter Jones:

Meeting began at 7:05am PT.

1.   Reviewed the Attendance information related to the ad hoc.
2.   Displayed post-par slide deck, reviewed patent policy, participation conditions.
    a.   Made potentially essential patents call – no one responded.
         https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt
         https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-01-00EC-ieee-802-participation-slide.pptx
3.   Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
4.   Asked for approval of 29 March 2017 minutes?
    a.   Approved without objection.
5.   Presented the proposed agenda.
    a.   Approved without objection.

Presentations/Discussion.

Specification Gaps and Improvement of MDC/MDIO Interface for Automotive Applications   Rubén Pérez de Aranda/Luisma Torres   KDPOF

- Luis Manuel Torres presenting for Rubén Pérez de Aranda
- In scope for 802.3cg? Not clear.
- This is currently defined in 802.3, but not clear that updating this section of the standard is needed/required.
- Suggest reaching out to individuals from Automotive OEMs and see if this is considered a common topic of concern.
- Question from the call about if this is more or less relevant to the auto industry compared to the industrial use cases.
- One responder confirms that at least some of auto industry is concerned about this and sees a need to address this in some forum.
- Concern that this text affects all of 802.3, not just the NGAUTO PHY.
- The fact that the industry uses different values does not direct translate to needing to update the spec.

- 10SPE and NGAUTO can discuss the need, changes should probably be either in maintenance or a new project (e.g. the CSDs).
- Another comment to the need for higher speed MDIO, and common interfaces within the Automotive use case.

More considerations for 10Mbps@15m multidrop Kirsten Matheus   BMW

- Question about multidrop and AVB/TSN to be able to build video and/or control.
- Need to deal with both time sync and traffic guarantees (for different types of real time traffic, e.g. audio, video, control, etc)
- How much of the application space is covered by the "must have". From presenter's point of view, "must have" covers ~90% of needs. Question for other potential users, this is

Touchstone model for Multidrop passive linear topology Stefan Buntz   Daimler

- Ask about usefulness of this model and if there is a need to provide more of this data.
- Some questions about physical connectivity and different pictorial representations between presentations from Stefan Buntz and Kirsten Matheus.
  - Response is that these are the same physical topology, just drawn differently.
  - Common terminology and representation would help a lot here.
- If interested, reach out to Stefan on the reflector or directly.

10 Mb/s Single Twisted Pair Ethernet Noise Measurements   Steffen Graber   Pepperl+Fuchs

- Questions about the MDI and termination network used? Response on call from Presenter and discussion.
  - Ask from the call to define this in a little more detail so that other people can test with similar assumption.
  - Discussion about more characterization of the test setup, e.g. common model to differential mode numbers.
- Offer from the call to provide some data on equipment (baluns) to simplify/improve the setup/measurement.

Plan for next meeting   George Zimmerman   CME

- Thanks to today's presenters, contributions and discussions is how we make progress.
- Details behind measurements are important to make sure we understand and can compare discussions.
- Multidrop – please look into this carefully, both from PHY and MAC points of view.

Open Discussion

- Notes

Meeting closed – 8:55am PT

Attendees (from Webex + emails)

Name	Affiliation	Attended 4/27
Alexander Felgenhauer	Yazaki	y
Amrik Bains	Cisco	y
Arkadiy Peker	Microsemi	y
Bob Voss	Panduit	y
Brett McClellan	Marvell	y
Brian Franchuck	Emerson	y
Bryan Moffitt	CommScope	y
Chris Diminico	MC Communications/Panduit	y
Chad Jones	Cisco	y
Clark Carty	Cisco	y
Claude Gauthier	OmniPHY	y
Craig Gunther	Harmen	y
Dale Borgeson	Emerson	y
Daniel Wiesmayer	DRÄXLMAIER	y
Dave Hess	CordData	y
David Brandt	Rockwell Automation	y
David Hoglund	Johnson Controls	y
David Law	HPE	y
Dayin Xu	Rockwell Automation	y
Dick Caro	CMC Associates	y
Dominik Dorner	Leoni	y
Doug Oliver	Ford	y
Eric DiBiaso	TE	y
Geoff Thompson	Independent	y
George Zimmerman	CME Consulting / Commscope, LTC & Aquantia	y
Harsh Patel	Molex	y
Helge Zinner	Continental Corp.	y
Henry Muyshondt	Microchip	y

Jay Cordaro	Broadcom	y
Jim Bauer	Marvell	y
Kirsten Matheus	BMW	y
Laura Schweitz	Turck	y
Maris Graube	Relcom Inc.	y
Masood Shariff	CommScope	y
Matthias Fritsche	HARTING Electronics GmbH	y
Mehmet Tazebay	Broadcom	y
Mick McCarthy	Analog Devices	y
Mike Gardner	Molex	y
Oisín Ó Cuanacháin	Analog Devices	y
Olaf Grau	Bosch	y
Olaf Krieger	Volkswagen	y
Peter Jones	Cisco	y
Peter Wu	Marvell	y
Phillip Brownele	TDK	y
piergiorgio	Canovatech	y
Stefan Buntz	Daimler	y
Steffen Grabber	Pepperl+Fuchs	y
Tobias Belitz	Renesas	y
Ulrich Nowack	Delphi	y
Vimalli Raman	Yazaki	y
Yasuhiro Hyakutake	Adamant	y