Minutes IEEE 802.3cg 10SPE TF AdHoc meeting 02 AUGUST 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.
3. 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
4. Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
5. First meeting since Berlin, so no AdHoc minutes to approve.

Presentations/Discussion.

Start and Administrivia   Peter Jones   Cisco

Automotive link segment for 10SPE Michael Kaindl, Kirsten Matheus   BMW

- Discussion about the influence of alien noise on the system and how it couples into the single pair link segment.
  o Additional areas of work – aggressors and coupling functions
- Slide 12 - IL comparison to 100BASE-T1/1000BASE-T1
  o Wondering about the difference between 10BASE-T1 & 100BASE-T1. Difference shown is small.
  o Ideally leave them the same in the lower frequency range, rather than define too many slightly different specs.
- Slide 13 - RL comparison to 100BASE-T1/1000BASE-T1
  o Need to account for PODL similar to 100/1000BASE-T1.
  o Is this link segment or looking into MDI?
    ▪ Answer – link segment – then PODL effect is not seen.
- Slide 14 – MC comparison to 100BASE-T1/1000BASE-T1
  o Work to be done to find sweet spot to balance performance and costs.

Addendum to Discussion of Multidrop Access Methods   David D. Brandt   Rockwell Automation

- Discussion on what is the correct way to proceed on this topic. TF chair to investigate. Maintenance request likely to be correct path, and possibly comment on revision draft.

Multidrop short-reach PHY proposal   Piergiorgio Beruto   Canovatech

- Technical clarifications etc
  - Q about Current MAC limits WRT max collision delay time for CSMA/CD vs max delay for all nodes transmitting max size frame.
    - Presenter thinks this is OK, will check and update preso.
  - What about EEE?
    - How would this accommodate EEE?
    - If a node "went to sleep" if would not be able to produce the NACK.
    - Need to see some more info on EEE.
  - Terminology
    - Usage of ACK/NACK a little unusual. May need to rethink. Suggestions welcome.
  - Node IDs
    - Selection/assignment protocol? Static config will not handle all cases.
    - Presenter proposes that a longer start up phase using normal CSMA/CD could be used to assign IDs on link membership change.
  - Determinism?
    - Does this proposal change the determinism of the system? Answer = no.
- Bigger picture
  - Layering questions? How close is this to the limits of what a PHY is allowed to do.

Meeting closed – 9:00am PT

Attendees (from Webex + emails)

Name	Affiliation	Attended 8/2
Antonio Orzelli	Canova Tech	y
Arkadiy Peker	Microsemi	y
Brett McClellan	Marvell	y
Bryan Moffitt	CommScope	y
Chad Jones	Cisco	y
Dale Borgeson	Emerson	y
Dave Hess	CordData	y

David Brandt	Rockwell Automation	y
David Hoglund	Johnson Controls	y
Dayin Xu	Rockwell Automation	y
Eric DiBiaso	TE	y
Geet Modi	TI	y
George Zimmerman	CME Consulting / Commscope, LTC & Aquantia	y
Harald Zweck	Infineon	y
Heath Stewart	Linear Technology	y
Helge Zinner	Continental Corp.	y
Jean Picard	TI	y
Kirsten Matheus	BMW	y
Laura Schweitz	Turck	y
Ludwig Winkel	Siemens	y
Markus Wucher	Endress+Hauser	y
Masood Shariff	CommScope	y
Matthias Fritsche	HARTING Electronics GmbH	y
Mehmet Tazebay	Broadcom	y
Michael Kaindl	BMW	y
Nicola Montemezzo	Canova Tech	y
Oisín Ó Cuanacháin	Analog Devices	y
Peter Jones	Cisco	y
Ron Naismith	Scheider Electric	y
Steffen Graber	Pepperl+Fuchs	y
Thomas Mueller	Rosenberger	y
Thomas Reinders	Delphi	y
Tim Schmidl	TI	y
Attendee count		33