IEEE 802.3cg 10SPE TF AdHoc meeting
DATE

Prepared by George Zimmerman

Presentations posted at:

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

Agenda/Admin George Zimmerman:

Meeting began at 7:04am PT.

1. Reviewed the Attendance information related to the ad hoc(s).
    a. Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
2. Reviewed agenda and asked for approval of PREVIOUS minutes?
    a. Approved without objection.
3. Displayed post-par slide deck, reviewed patent policy, participation conditions.
    https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt (10SPE)
    https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt
4. Made potentially essential patents call for 802.3cg – 10SPE – 7:10AM
    No-one responded.

Presentations/Discussion.

Collision Detection Reliability in 10BASE-T1S– Piergiorgio Beruto, CanovaTech

The presenter presented analysis of the probability of missing the detection of a collision based on code violations. Presenter reviewed analysis, based on the receiver performance, and the self-synchronizing scrambler, the short line delay, and the position of the unique sending MAC address in the frame. The result is that the unique MAC word will be detected and will pass through the scrambler, guaranteeing that there will be several bits different near the beginning of the frame, and probability of missing detection less than the age of the universe (the usual ethernet metric).

There were no questions. On follow up discussion (after the second presentation) One participant noted he would review and follow up with the presenter.

10BASE-T1L Power Delivery – Heath Stewart – Analog Devices

The presenter reviewed the power table in clause 104 as adopted in the current draft and previewed some comments likely to come in at sponsor ballot. These included removing the AWG and length rows

from the class power table (because the resistance was all that was needed), and some potential adjustments of the power class levels.

Discussion centered around whether we should keep both 24 V and 50V classes or simplify on one, and also included some discussion the tension between power efficiency of the higher voltage vs. regulatory preference for lower voltages in installation practices in the building automation environment. Participants were encouraged to consider the issues raised in the presentation and discuss, as these are likely to come up as comments in initial sponsor ballot.

Meeting closed – 8:07AM PT

Attendees (from Webex + emails)

Name	Employer	Affiliation
Amrit Gopal	Ford	Ford
Aniruddha Phatak	Renesas	Renesas
Bob Voss	Panduit	Panduit
Brett McClellan	Marvell	Marvell
Brian Franchuk	Emerson	Emerson
Brian Rush	Maxim Integrated	Maxim Integrated
Chris Pohl	Beckhoff Automation	Beckhoff Automation
Craig Gunther	Craig Gunther Consulting	Craig Gunther Consulting
Dayin Xu	Rockwell Automation	Rockwell Automation
Doug Oliver	Ford	Ford
Eric DiBiaso	TE	TE
Fatma Caliskan	MicroChip	Microchip
Geoff Thompson	GraCaSI S.A.	Independent
George Zimmerman	CME Consulting	ADI, APL Group, Aquantia, BMW, Cisco, Commscope, SenTekse
Gergely Huszak	Kone	Kone
Gitesh Bhagwat	Analog Devices	Analog Devices
Harald Zweck	Infineon	Infineon

Heath Stewart	Analog Devices	Analog Devices
Jim Bauer	Marvell	Marvell
Jim Lawlis	Ford	Ford
Kevin Holcomb	Cisco	Cisco
Kirsten Matheus	BMW	BMW
Larry Matola	Aptiv	Aptiv
Lars Mickan	Renesas	Renesas
Laura Schweitz	Turck	Turck
Maris Graube	Relcom Inc.	Relcom Inc.
Matthias Jaenecke	Yazaki	Yazaki
Michal Brychta	Analog Devices	Analog Devices
Oisín ÓCuanacháin	Analog Devices	Analog Devices
Olindo Savi	Hubbell	Hubbell
Phillip Brownlee	TDK	TDK
Piergiorgio Beruto	Canova Tech	Canova Tech
Ron Tellas	Belden	Belden
Scott Griffiths	Rockwell Automation	Rockwell Automation
Steffen Graber	Pepperl+Fuchs	Pepperl+Fuchs
Tim Baggett	Microchip	Microchip
Todd Harpel	Nexans	Nexans
Ulrich Egenhofer	Draexlmaier	Draexlmaier
Venkat Iyer	Microchip	Microchip
Wojciech Koczwara	Rockwell Automation	Rockwell Automation
Attendees	40	