IEEE 802.3cg 10SPE TF/802.3 10BP SG AdHoc meeting
FEB 14 2018

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(s).
2. Displayed pre & post-par slide deck, reviewed patent policy, participation conditions.
   https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.pdf (10BP)
   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
3. Made potentially essential patents call for 802.3cg – 10SPE
   No-one responded.
4. Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
5. Asked for approval of previous meeting minutes for 17 Jan 2018, 03 Jan 2018, 20 Dec 2017.
   a. Approved without objection.

Presentations/Discussion.

Chair's Comments (10SPE & 10BP)

George Zimmerman CME (*)

- Discussion of 802.3cg and 10BPE process moving forwards.
- Discussion of work process for AdHocs, March plenary, May interim and beyond.
- Please refer to email from 802.3cg TF chair on reflector.

Further Thoughts on Scrambling for 10BASE-T1S Mehmet Tazebay Broadcom

- Variable or Missing MAC Transmit Preamble
  - Clause 22 vs clause 9 for 10Mb/s – comment from call that clause 9 is the relevant text.
- Killer Packets – needs to be clear the consequence of this if it could happen.
- Scrambler – some question about the real effect of the scrambler – defer to reflector discussion.

Immunity Measurements and Considerations for 10BASE-T1S Jay Cordaro Broadcom

- "min" Passive Linear Topology BCI Setup
  - Setup doesn't quite match draft? Presenter states that this was pre-existing setup, and results should be comparable. Plans to update the setup and re-run tests.
  - Uses 100BASE-T1 CM chokes etc.
  - Multidrop is a new thing.
  - Comments from call about the details of test bench, how it's constructed, and how it performs.
- "Differential Mode Voltage"
  - Question about Differential Mode Voltage peaks in graph – where do these come from?
  - Concerns that noise peaks are a significant issue, how are these addressed in CAN/Flex etc?
- Questions about:
  - preamble sync options and/or impact to data transmission on this mixing segment.
  - Common mode voltage & mode conversion
- Next steps?
  - Results shown attracted significant interest.
  - Evaluate results presented, replicate similar setups.
  - We need to get the mixing segment solid.
  - Please submit presentations on this topic for next adhoc ASAP, we will get them posted and we can have discussions on the reflector well in advance of next adHoc.

Meeting closed – ~8:20am PT

Attendees (from Webex + emails)

Name	Employer	Affiliation	Attended 2/14
Aniruddha Phatak	Renesas	Renesas	y
Antonio Orzelli	Canova Tech	Canova Tech	y
Brett McClellan	Marvell	Marvell	y
Brian Franchuck	Emerson	Emerson	y
Chris Diminico	MC Communications/Panduit	MC Communications/Panduit	y
Clark Carty	Cisco	Cisco	y
Claude Gauthier	OmniPHY	OmniPHY	y
Conrad Zerna	Fraunhofer IIS	Fraunhofer IIS	y
Dale Borgeson	ED Engineering	Emerson	y
Dave Hess	CordData	CordData	y
David Brandt	Rockwell Automation	Rockwell Automation	y
Eric DiBiaso	TE	TE	y

Evgenij Glups	IHR Automotive	IHR Automotive	y
Fatma Caliskan	Microchip	Microchip	y
Geoff Thompson	GraCaSI S.A.	Independent	y
George Zimmerman	CME Consulting	ADI, Aquantia, BMW, Cisco, Commscope	y
Harald Zweck	Infineon	Infineon	y
Hongming An	Microchip	Microchip	y
James Withey	Fluke	Fluke	y
Jay Cordaro	Broadcom	Broadcom	y
Jens Gottron	Siemens	Siemens	y
Jim Bauer	Marvell	Marvell	y
Jon Lewis	Dell	Dell	y
Kirsten Matheus	BMW	BMW	y
Larry Matola	Delphi	Delphi	y
Laura Schweitz	Turck	Turck	y
Markus Wucher	Endress+Hauser	Endress+Hauser	y
Masood Shariff	CommScope	CommScope	y
Mehmet Tazebay	Broadcom	Broadcom	y
Michal Brychta	Analog Devices	Analog Devices	y
Mick McCarthy	Analog Devices	Analog Devices	y
Neven	Pischl	Broadcom	y
Nicola Scantamburlo	Canova Tech	Canova Tech	y
Oisín Ó Cuanacháin	Analog Devices	Analog Devices	y
Peter Jones	Cisco	Cisco	y
Peter Wu	Marvell	Marvell	y
Phillip Brownele	TDK	TDK	y
Phong Pham	US Conec	US Conec	y
Piergiorgio Beruto	Canova Tech	Canova Tech	y
Shiva Akkihal	Microchip	Microchip	y
Steffen Graber	Pepperl+Fuchs	Pepperl+Fuchs	y
Sujan Pandey	NXP	NXP	y
Tim Baggett	Microchip	Microchip	y
Venkat Iyer	Microchip	Microchip	y
Viliam Vozar	Onsemi	Onsemi	y
Attendee count			45