IEEE 802.3cg 10SPE TF AdHoc meeting
October 24th

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 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
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. No approval of previous minutes?
   a. Approved without objection.

Presentations/Discussion.

10BASE-T1S Autoneg and Link Status Indication

PIERGIORGIO BERUTO, ANTONIO ORZELLI - CanovaTech

- PLCA/HB on half duplex PtP
  - Covered under multdrop exclusion
- Is HB needed?
  - Desire to have “link status” for HD PtP
  - AN is optional, needs a link status to complete.
  - Without this, need signal detect on rx.
  - “Original Ethernet” didn’t include AN, and didn’t have/need this feature.
- Link down vs link up decision
  - Review proposed numbers (5:1) – probably need to be constant (same at both ends)
- Clean shutdown signal?
  - We could send one, ask that people think about what this adds.

PLCA Burst Mode Diagram

PIERGIORGIO BERUTO , ANTONIO ORZELLI - CanovaTech

- Basic question, do we need a full IPG because that's implemented by the MAC
    - Yes
- Variation of IPG?
    - Node by node configuration.
    - IPG not configurable per 802.3
- TF chair – watch for late features which will delay the standard
- Be careful about going beyond "what Ethernet does".

Optional Cable Resistance Measurement (CRM) - Part 2
Gitesh Bhagwat, Andy Gardner, Heath Stewart - Analog Devices

- Needs careful review from people focused on power. Recommend discussion on reflector before next AdHoc and Bangkok.

PoDL Power Coupling Network Performance - Gitesh Bhagwat - Analog Devices

- Needs careful review from people focused on power, connectors/magnetics and systems vendors. Recommend discussion on reflector before next AdHoc and Bangkok.

10BASE-T1L Receive Watchdog State Diagram - Steffen Graber - Pepperl+Fuchs

- Slides were presented

10BASE-T1L Receive State Diagram Disparity Error - Steffen Graber - Pepperl+Fuchs

- Slides were presented

Future-proofing PLCA for priority-based transmit Ordering
Venkat Iyer, Michael Rentschler – Microchip

- Question of scope raised.
    - Scope for PHY
    - Ethernet rules.
- Concern of features that can't be used in a standard today, maybe in the future.
- Assigning precedence per node, and not per frame/per a node, has fewer scope concerns.
- Advised presenter to update deck to focus on what is seen to be in scope (e.g., does not require new signals via the MAC), and does not assume any particular outcome from NEA work.

Open Discussion

- AdHoc chair reminded attendees:
    - Ballot closes Friday
    - Bangkok is not far away
    - Use the reflector
    - Submit agenda requests early, late requests are difficult to manage.

Meeting closed – ~9:00 PT

Attendees (from Webex + emails)

Name	Employer	Affiliation	Attended 10/24
Aniruddha Phatak	Renesas	Renesas	y
Bob Voss	Panduit	Panduit	y
Brett McClellan	Marvell	Marvell	y
Brian Franchuck	Emerson	Emerson	y
Chris Pohl	Beckhoff Automation	Beckhoff Automation	y
Christopher DiMinico	MC Communications/Panduit	MC Communications/ Panduit	y
Craig Gunther	Craig Gunther Consulting	Craig Gunther Consulting	y
Cyrus	Relcom Inc.	Relcom Inc.	y
Dave Hess	CordData	CordData	y
Dave Karpenske	PCN Technology	PCN Technology	y
David Brandt	Rockwell Automation	Rockwell Automation	y
David Lucia	Sifos	Sifos	y
Dayin Xu	Rockwell Automation	Rockwell Automation	y
Doug Oliver	Ford	Ford	y
Fatma Caliskan	MicroChip	Microchip	y
Geoff Thompson	GraCaSI S.A.	Independent	y
George Zimmerman	CME Consulting	ADI, APL Group, Aquantia, BMW, Cisco, Commscope	y
Heath Stewart	Analog Devices	Analog Devices	y
Hongming An	Microchip	Microchip	y
Jay Cordaro	Broadcom	Broadcom	y
Jens Gottron	Siemens	Siemens	y
Jim Bauer	Marvell	Marvell	y
Kevin Holcomb	Cisco	Cisco	y
Kirsten Matheus	BMW	BMW	y
Larry Matola	Aptiv	Aptiv	y
Laura Schweitz	Turck	Turck	y
Lokesh Kabra	Synopsys	Synopsys	y
Matthias Fritsche	HARTING Electronics GmbH	HARTING Electronics GmbH	y
Michael Rentschler	MicroChip	MicroChip	y
Mick McCarthy	Analog Devices	Analog Devices	y
Niall Fitzgerald	acuitas silicon	acuitas silicon	y
Nicola Scantamburlo	Canova Tech	Canova Tech	y
Oisín Ó Cuanacháin	Analog Devices	Analog Devices	y

Olaf Krieger	Volkswagen	Volkswagen	y
Paul Vanderlaan	Berk-Tek	Berk-Tek	y
Peter Jones	Cisco	Cisco	y
Phillip Brownele	TDK	TDK	y
Piergiorgio Beruto	Canova Tech	Canova Tech	y
Steffen Graber	Pepperl+Fuchs	Pepperl+Fuchs	y
Sujan Pandey	NXP	NXP	y
Tim Baggett	Microchip	Microchip	y
Venkat Iyer	Microchip	Microchip	y
Yasuhiro Hyakutake	Adamant	Adamant	y
Attendees			43