Minutes IEEE 802.3cg 10SPE TF/802.3 10BP SG AdHoc meeting November 22 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 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
   No-one responded.
4. Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
5. Approval of previous minutes - not required

Presentations/Discussion.

Chair's Comments (10SPE & 10BP)

George Zimmerman CME (*)

- Discussion of status and path forward for both 10SOE TF and 10BP SG.
- Review of the process requirements for 10BP SG.
- For 10BP SG to complete its work in the March plenary, we need to come out of Geneva with draft PAR, CSG and objective modifications for 802.3cg approved by SG, TF and WG. This is a consequence IEEE 802 requiring 30 day pre-circulation of key documents.

802.3cg 10SPE Minor amendments to T1S baseline

Piergiorgio Beruto Canovatech

- Discussion about what types of change need supporting presentations vs just editors notes.

802.3cg 10SPE PSD mask updates

Piergiorgio Beruto Canovatech

- Discussion of Voltage P2P numbers.
- Feedback requested. Discussion of how to proceed.
- Discussion of the channel being modelled in presentation.
- Discussion of terminology needed for definition of multidrop physical media, recent copper PHYs have been point to point only, and link segment is not the correct term for multidrop.
    - Not the same as previous CSMD/CD multidrop because that had termination at the tap, instead of short stubs.
- Need to have people spend time on the multidrop channel, both from the application point of view (what do we need to satisfy), and also the 802.3 point of view (how do we do we specify/describe it).

PLCA and TSSI considerations

Piergiorgio Beruto Canovatech

- Need to address document specification to address accuracy of timestamping.
- Need to consider technical requirements as well as document structure.
- There may be tradeoffs between complexity of our specification (e.g., a simpler spec may allow a small bounded jitter) vs simplicity of the service provided (e.g., a more complex spec may offer significantly small jitter).
    - Need to review approach used in 802.3br, and see if that offers guidance.
    - Need to find folks on reflector (and also from 802.3br and TSN) to dig into this.
    - David Brandt has covered some of this material in previous presentations, a pointer will be sent to the reflector.
- PLCA and pre-emption
    - 802.3br – 99.1 – optional sub-layer only supported on full duplex, does not apply to half duplex (point to point or multi-drop)

      99. MAC Merge sublayer

      99.1 Introduction

      This clause specifies an optional MAC Merge sublayer for use with a pair of full-duplex MACs and a single PHY operating at 100 Mb/s or higher on a point-to-point link. The two MACs are:

      — a preemptable MAC (pMAC), which carries the preemptable traffic, and

      — an express MAC (eMAC), which carries the express traffic.

General

- USE THE REFLECTOR to discuss issues and build concensus.
- From this meeting, interesting topics raised included
    - Multidrop transmission media definition and description
    - PLCA to be defined as optional component of RS (interactions with TSSI and EEE?)
    - PLCA and TSSI
    - PLCA and 802.3br - Interspersing Express Traffic – 802.3br only supports “full-duplex point-to-point at 100 Mb/s or higher”.

Meeting closed – 8:45am PT

Attendees (from Webex + emails)

Name	Employer	Affiliation	Attended 11/22
Aniruddha Phatak	Renesas	Renesas	y
Brett McClellan	Marvell	Marvell	y
Brian Franchuck	Emerson	Emerson	y
Brian Jaroszewski	Microsemi	Microsemi	y
Claude Gauthier	OmniPHY	OmniPHY	y
Craig Gunther	Harmen	Harmen	y
Dale Borgeson	Emerson	Emerson	y
Dave Hess	CordData	CordData	y
David Brandt	Rockwell Automation	Rockwell Automation	y
David Hoglund	Johnson Controls	Johnson Controls	y
David Law	HPE	HPE	y
Dayin Xu	Rockwell Automation	Rockwell Automation	y
Derek Cassidy	ICRG	ICRG	y
Dieter Schicketanz	Consultant, Reutlingen University	Consultant, Reutlingen University	y
George Zimmerman	CME Consulting	ADI, Aquantia, BMW, Cisco, Commscope	y
Gergely Huszak	Kone	Kone	y
Harald Zweck	Infineon	Infineon	y
Heath Stewart	Linear Technology	Linear Technology	y
Henry Muyshondt	Microchip	Microchip	y
James Withey	Fluke	Fluke	y
Jens Gottron	Siemens	Siemens	y
Jim Bauer	Marvell	Marvell	y
Kirsten Matheus	BMW	BMW	y
Markus Wucher	Endress+Hauser	Endress+Hauser	y
Martin Miller	Microchip	Microchip	y
Matthias Fritsche	HARTING Electronics GmbH	HARTING Electronics GmbH	y
Matthias Jaenecke	Yazaki	Yazaki	y
Mehmet Tazebay	Broadcom	Broadcom	y
Michal Brychta	Analog Devices	Analog Devices	y
Mick McCarthy	Analog Devices	Analog Devices	y
Nicola Scantamburlo	Canova Tech	Canova Tech	y
Oisín Ó Cuanacháin	Analog Devices	Analog Devices	y
Peter Jones	Cisco	Cisco	y
Piergiorgio Beruto	Canova Tech	Canova Tech	y

Ron Naismith	Scheider Electric	Scheider Electric	y
Steffen Graber	Pepperl+Fuchs	Pepperl+Fuchs	y
Sujan Pandey	NXP	NXP	y
Timothy Pak	Luxshare		y
Venkataraman Iyer	Microchip	Microchip	y
Vimalli Raman	Yazaki	Yazaki	y
Yasuhiro Hyakutake	Adamant	Adamant	y
Attendee count			41