Minutes IEEE 802.3 10SPE SG AdHoc meeting 24 OCTOBER 2016

Prepared by Peter Jones

Proposed Agenda:

1. Agenda/Admin Peter Jones

Presentations posted at:

http://grouper.ieee.org/groups/802/3/10SPE /public/adhoc/index.html

Agenda/Admin Peter Jones:

Meeting began at 9:05am PST.

- 1. Reviewed the Attendance information related to the ad hoc.
- Displayed pre-par patent slide deck, Asked if we needed to review patent policy.
 - a. No one requested review.
- 3. Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
- 4. Approval of minutes for 19 October 2016
 - a. Minutes have only just been posted, not asking for approval today.
- 5. Presented the proposed agenda.
 - a. Approved without objection.

Presentations/Discussion.

Chair's Comments George Zimmerman CME

- Coming up to deadline for presentation requests for November Wednesday. Please send these
 at least to George and Jon Lewis. Even better send them to the reflector so people can
 collaborate more effectively.
- We have PAR & CSD pre-submitted, we just need to close objectives that support those docs to move forward towards being a TF.
- We have the ability to add objectives later as long as they are within scope.

10SPE Power Distribution Steffen Graber Pepperl+Fuchs

- "Possible Work Flow for Task Force"
 - May be really more like a "relationships within the technical areas of work".
 - o There are a lot of moving parts, how can we do this effectively?
 - o What lessons can we/should we learn from PoE and also PoDL and 100/1000BASE-T1?
 - Some opinion from the call to keep the groups together because they are tightly interrelated.
 - Possible treat this like the optical groups do with sub-tracks.

- Need to make sure that we have the right people attending, places constraints on meeting planning.
- Possibly our biggest decision we need to make right now.
- Can leave this as one project (PHY + Power) now, and split later if we have to, would not affect when a dedicated power project could get started.
- "Powering Examples"
 - "Parameter (Ex ia/ib) Value" (IS) vs "Parameter (Ex e) Value" (non-IS)
 - Q about 48N and IS.
 - IS can't use 48V because the voltage/current tables become non-linear.
 - Presenter showed some relevant figures and tables from IEC doc IEC 60079-11
 2001. Will update presentation to identify doc source and some key references.
 - Normally trunk is not IS, just the 200m spur.

10SPE Power Link Segment Disturbances Steffen Graber Pepperl+Fuchs

- Overview
 - Suggestion of new Objective "Provide a PHY impulse noise tolerance of at least 50 ms."
 - Discussion on call if required, this would be an optional objective. Power is optional, and it's likely that support for daisy chains (with or without power) is an additional option.
- Disturbances by Connecting Components
 - The discussion is about keeping "link" up, there is no requirement that this causes no packet drop.
 - Must be clear in objective to avoid mis-communication.
- Influence on Communication
 - Needs to restore communication service within the defined time period.
 - Need to be clear about what is needed, about how we can clearly express that in an objective.
 - Something like "Optionally keep link up over impulse noise event up to 50ms of up to xxxxx characteristics."
 - George Z will send out strawman objective to reflector.
 - Types of noise, Impulse vs emi need to think about types of noise event, what types
 exist where, does this impact other user cases. If this was a continuous occurrence, the
 answer would change because we would want to define the PHY to resist packet loss, as
 opposed to drop packets and keep link up.

Meeting closed - ~10:20 am PT

Attendees (from Webex + emails)

Name	Affiliation	attended 10/24
Ahmad Chini	Broadcom	у
Bernd Horrmeyer	Phoenix Contact	у
Chad Jones	Cisco	у
Chen, Li-Chung	Realtek	у
Ching-Yao Su	Realtek	у
Claude Gauthier	OmniPHY	у
Daniel Wiesmayer	DRÄXLMAIER	у
David Brandt	Rockwell Automation	у
David Hoglund	Johnson Controls	у
Dieter Schicketanz	Consultant, Reutlingen University	у
Geoff Thompson	Independent	у
George Zimmerman	CME Consulting / Commscope, LTC & Aquantia	У
Harald Müller	Endress+Hauser	у
Heath Stewart	Linear Technology	У
Helge Zinner	Continental Corp.	У
Jacky Chang	HPE	У
Jean Picard	TI	у
Jens Gottron	Siemens	У
Jim Bauer	Marvell	У
Laura Schweitz	Turck	У
Ludwig Winkel	Siemens	У
Maris Graube	Relcom Inc.	У
Masood Shariff	CommScope	У
Matthias Fritsche	HARTING Electronics GmbH	У
Matthias Jaenecke	Yazaki	У
Oisín Ó Cuanacháin	Analog Devices	У
Peter Jones	Cisco	У
Peter Wu	Marvell	У
Qing Xu	Belden	У
Steffen Grabber	Pepperl+Fuchs	У
Steve Carlson	HSD	У
Tobias Belitz	Renesas	У
Attendee count		32