Minutes IEEE 802.3 10SPE SG AdHoc meeting October 5 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 7:05am PST.

1.   Reviewed the Attendance information related to the ad hoc.
2.   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 previous minutes deferred.
5.   Presented the proposed agenda.
    a. Approved without objection.

Presentations/Discussion.

Chair's Comments   George Zimmerman   CME

- Showed approved objectives from September, asked that people modifying objectives be very clear about what the goals are.
- Please provide early notice of presentations, it helps.
- PAR is presubmitted, CSD and Objectives will be dealt with in November.

Ethernet for Building Automation & Control   David Hoglund   JCI

- Slide 12 – screw terminals – normal, defined by standard, what about plug in connectors? Reponses – screw terminals commonly used by JCI, provides resiliency against device failure, but JCI also uses many other types of connectors.

Power & Data   Lennart Yseboodt   Phillips

- DALI can run over almost anything that conducts electricity, and mains power cable is commonly used.
    o Luminaires are often made to be able to survive mains power being plugged into the DALI interface.
    o This is not required or expected to be supported in 10BASE-T1.
- Proposed objectives are for discussion only today.
- Questions about CSMACD vs more EPON style for media control.

- o   need to look at cost/complexity tradeoffs
- o   csma/cd would probably meet requirements
- o   Should look at more detail into PON, may be better fit.
- o   Lighting application is moving to more 50/50 up vs down based on distributing sensors into Luminaires.
- Objectives – autoneg?
  - o   Bus power vs PtP
  - o   Classification probably required for simple PtP (e.g. star wired), more difficult for multipoint/bus.

Daisy Chain Powered Trunk   Steffen Graber   Pepperl+Fuchs
- How does this fit with Lennart's Power & Data assumptions/requirements?
  - o   Different cost drivers in different markets
  - o   Will share inductance info
  - o   Absolute cost of device influences viable choices for cost of supplying power to device, this about percentage of system cost for power?

Automotive Channel for Multi-Drop   Stefan Buntz   Daimler AG
- Did the modelling include splice point or the star point considered in the simulation?
  - o   Not included, expected to be negligible. More work/discussion required.
- Question about need for these topologies?
  - o   Covered in other joint presentations that talk about the need for multidrop.

1000 meters   Ludwig Winkel   Siemens AG
- Presenters will remove overlapping (e.g. remove 18, covered by 5).
- What about % times for link recovery? With no bound, we can't tell if we met it. Any quantitative numbers available?
  - o   Already defined for auto, what about industrial?
- What about % times for fast startup? With no bound, we can't tell if we met it. Any quantitative numbers available?
  - o   Already defined for auto, what about industrial?
- What does "Link Quality Diagnostics" really mean?
  - o   Suggest back up presentations to help get consensus on scope of this work.
  - o   If relatively small, remove objective. If not, add detail to objective (or point back to detail somewhere else).
  - o   Want to avoid major disagreements on whether or not the objective is clear, could be was met or was met.

Plan for next meeting   Peter Jones/George Zimmerman Cisco/CME
- Please submit presentation requests early.
- Use the reflector for consensus building.

Meeting closed – 9:15am PT

Attendees (from Webex + emails)

Name	Affiliation	attended 10/05
Ahmad Chini	Broadcom	y
Bernd Horrmeyer	Phoenix Contact	y
Brett McClellan	Marvell	y
Chad Jones	Cisco	y
Chen, Li-Chung	Realtek	y
Ching-Yao Su	Realtek	y
Claude Gauthier	OmniPHY	y
Daniel Wiesmayer	DRÄXLMAIER	y
Dave Karpenske	PCN Technology	y
David Abramson	TI	y
David Brandt	Rockwell Automation	y
David Hoglund	Johnson Controls	y
David Law	HPE	y
Dick Caro	CMC Associates	y
Frank Schewe	Phoenix Contact	y
Geoff Thompson	Independent	y
George Zimmerman	CME Consulting / Commscope, LTC & Aquantia	y
greg@techpointconsulting.com	techpointconsulting.com	y
Harald Müller	Endress+Hauser	y
Helge Zinner	Continental Corp.	y
Jay Cordaro	Broadcom	y
Kirsten Matheus	BMW	y
Laura Schweitz	Turck	y
Lennart Yseboodt	Phillips	y
Ludwig Winkel	Siemens	y
Maris Graube	Relcom Inc.	y
Matthias Jaenecke	Yazaki	y
Mick McCarthy	Analog Devices	y
Peter Jones	Cisco	y
Qing Xu	Belden	y
Ron Muir	JAE	y
Stefan Buntz	Daimler	y
Steffen Grabber	Pepperl+Fuchs	y
Attendee count		33