IEEE 802.3
4-Pair Power over Ethernet
(4PPoE) Study Group
15th July 2013,
Geneva, Switzerland

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Chair, IEEE 802.3 4PPoE Study Group

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- Report on May Interim Study Group Meeting
- Current Objectives
- Status of PAR, 5C
- Plans for the week

Interim Business

- Significant progress made on PAR, 5C and objectives
 - Study group adopted PAR responses
 - Study group adopted 6 objectives
- Ad-hoc chartered to build consensus on a 7th objective
- Presentations requested to clarify as many as three more objectives

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- The project will amend IEEE Std 802.3-2012 by amending Clause 33
- IEEE Std 802.3 will comply to the limited power source and SELV requirements as defined in ISO/IEC 60950
- Specify Mutual Identification to address four pair operation
- The standard shall not preclude the ability to meet FCC/ CISPR/EN Class A, Class B, Performance Criteria A and Performance Criteria B with data for all supported PHYs
- Investigate operation with 10GBASE-T
- Support for operation over the following channels that have DC loop resistance of no greater than 25 ohms:
 - Class D or better 4-pair copper medium from ISO / IEC 11801:2002, including Amendments 1 & 2
 - Class D or better media from ISO / IEC 11801:1995
 - Category 5e or better cable and components as specified in ANSI/TIA-568-C.2
 - Category 5 cable and components as specified in ANSI/TIA/ EIA-568-A

Adopted by the IEEE 802.3 4PPoE Study Group May 2013

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PAR and 5C

- PAR responses adopted by study group based on an ad-hoc that met during the May interim series
 - Ad-hoc report: <u>http://www.ieee802.org/3/4PPOE/public/may13/diab 3 0513.pdf</u>
 - acknowledgement to Wael Diab for chairing adhoc
- 5C is 95% complete
 - acknowledgement to Steve Carlson for his help
 - Look to complete contribution and adopt this cycle

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Plans for week

- Meet Tuesday and Wednesday 9am to 6pm
- Meet Thursday 9am to noon
 - Meeting in ITU Room H1
- Main items
 - Review adhoc report
 - Presentations
 - Adopt 5C responses
 - Review and adopt additional objectives as necessary
 - Request to re-charter the SG

Presentations

Agenda and General Information Chad Jones Cisco

Compatibility Matrix Ad-Hoc Yair Darshan Microsemi

4Pair PoE Current unbalance Christian Beia ST Micro

Power Over 10GBASE-T Ethernet Paul Langner, Aquantia

George

Zimmerman

Proposed New .bt objectives Jeff Heath Linear Tech

Analysis of usable PD input power in Yair Darshan Microsemi

4P system

4PPoE Web Information

IEEE 802.3 4PPoE web site:

http://www.ieee802.org/3/4PPOE/index.html

- All information is in the public area
 - PAR
 - Objectives
 - Meeting material