4-Pair PoE Study Group – Meeting Minutes 05-14-2013

- Meeting started at 9:15am
- Intro – David Law
- Recording Chair for today – David Tremblay
- David Law asked to confirm Chad Jones as SG chair and highlighted everyone in the room can vote
- Wael Diab motion to confirm Chad Jones as 4-pair SG chair, 2nd by Phillip Brownlee
    - Vote Approved Y:18, N:0, A:0
- Chad Jones – introed attendees, passed around signup sheet and reviewed agenda
    - Motion to approve agenda and 2nd by members in room. Approved by voice without opposition
- Chad Jones presented: Agenda and General Information
    - Reviewed SG Decorum, Goals, Ground Rules, IEEE Structure, Important Bylaws and Rules, Guidelines for IEEE-SA.
    - 4-Pair PoE Study Group URL: http://www.ieee802.org/3/4PPOE/
    - Attendance Tool URL: http://imat.ieee.org
- Wael Diab presented on: Overview of the Process
    - Finished presentation and break @ 10:20am.
    - Meeting restart @ 10:35am.
- Steve Carlson presented on: Overview of the 5 Criteria
    - Finished presentation at 10:55am.
- Chad proposed Wael presenting before Marek – agreed
- Wael presented on: Overview of the PAR
    - John D 'Ambrosia provided recommendation for successful PAR creation to communicate for consensus building
    - Wael requested PAR consensus building Ad-Hoc meeting
    - Finished presentation @ 11:35am
- Marek Hajduczenia presented on: Overview of the Objectives
    - Finished presentation @ 12pm
    - Break for lunch and restart @ 1:40pm
- Lennart Yseboodt presented on: Lighting over Ethernet
    - Typical power use cases range from 35-50W
    - Luminaire reliability rating of 50Khrs @ 105degC
    - Finished presentation @ 1:55pm
- Brad Booth presented on: Potential Applications to 4 Pair PoE
    - What is the typical insertion for RJ-45 connector – 750 insertion rating
    - For tablet markets, no RJ-45 available and would need to investigate connector options that support RJ-45 to tablet connector for PoE power delivery
    - Finished presentation @ 2:20pm

- Yair Darshan presented on: Market Requirements and Considerations

- o Yair highlighted there are transformers today designed for 10Gbase-T that support up to 1A current and will provide manufacture references to anyone who asks
- o Nurse Call Systems are typically using 24V or less as standard voltage which is outside PoE voltage range. Need to follow up to confirm Nurse Call Systems voltage requirements and if they don't align with PoE voltages, recommend removing from 4-Piar PoE marketing data
- o Noted that clause 33 does not cover all safety standards, reference UL & IEC
- o Discussion clarifying IEEE802.3af and IEEE802.3at backward compatibility as it relates to 4-Pair PoE backward compatibility with the addition of investigating 10Gbase-T support which does not exist within previous .af and .at standards. Recommended to further discuss mutual identification and backward compatibility.
- o Finished presentation @ 2:55pm
- o Break until 3:15pm
- Chad Jones presented the IEEE 802.3at SG Objectives as reference for discussion on areas that could be improved when generating the 4-Pair PoE SG Objectives.
- o Suggestion to use the latest Objectives template as the 802.3at reference is out of date.
- o Discussed removing the 802.3at Objective 5 to support max power to PD was prematurely removed and recommended to investigate as part of 4-Pair PoE SG
- o Discussed all 802.3at Objectives and how they may relate to 4-Pair PoE Objectives
- Adjourn meeting @ 4:10pm
- Reconvene tomorrow @ 9am

4-Pair PoE Study Group – Meeting Minutes 05-15-2013

- Meeting started at 9:00am
- Intro – Chad Jones
- Recording Chair for today – David Tremblay
- Wael Diab presented Ad-Hoc PAR changes as shown in diab_3_0513.pdf and made a motion to adopt the responses:
- o M: W. Diab
- o S: J. Heath
- o Tech (>=75%)
- o All:
  - ▪ Y: 12 N: 0 A: 0
  - ▪ Motion Passes
- Chad passed the chair position to Wael in order to present Objectives
- o Discussed Objectives, highlighted objectives text as orange (contentious) or green (ready) and obtained agreement on wording
- o Objective 4, 5, 6, 8, 9 and 10 considered contentious and will be discussed further
- o Reorganized slides and renumbered objectives
- Chad made a motion to adopt objectives on slides 2, 3, 4, 5 as shown in jones_1_0513.pdf
- o M: C. Jones
- o S: S. Carlson

- - Tech (>=75%)
  - All:
    - Y: 17   N: 0   A: 0
    - Motion Passes
- Wael released chair position back to Chad
- Break @ 10:23am
- Restarted @ 10:40am
- Steve Carlson presented the 5 Criteria template and discussed filling out for SG objectives
- Chad passed the chair position to Steve in order to present Objectives
  - Discussed and modified the Objective slides highlighted in orange text that where contentious
  - Recommended Ad-Hoc meeting to discuss contentious objectives in more detail
- Steve released chair position back to Chad
- Break for lunch @ 12pm
- Restarted @ 2pm
- Chad made a motion to adopt objectives on slide 6 as shown in jones_1_0513.pdf
  - M: C. Jones
  - S: D. Abramson
  - Tech (>=75%)
  - All:
    - Y: 12   N: 0   A: 0
    - Motion Passes
- Discussed maximum power delivered to the PD PI.
- Discussed setting up a PoE power Ad-Hoc that Yair will coordinate
- Discussed DC Resistance and cable imbalance
- Break @ 3:02pm
- Restarted @ 3:17pm
- Discussed Objective working on slide 7 and modified by group.
- Chad made a motion to adopt objectives on slide 7 as shown in jones_1_0513.pdf
  - M: C. Jones
  - S: G. Zimmerman
  - Tech (>=75%)
  - All:
    - Y: 17   N: 0   A: 0
    - Motion Passes
- Steve Carlson presented the 5 Criteria and discussed with SG
  - Recommended to review slides again in Geneva
- Discussed Geneva Plenary dates and recommended to reserve hotel ASAP if not already completed
- Jeff Heath will present additional slides during Geneva Plenary
- Adjourn meeting @ 4:08pm

May 14, 2013 Attendance

Name	Employer	Affiliation
Chad Jones	Cisco	Cisco
Wael Diab	Broadcom	Broadcom
Ghani Abbas	Ericsson	Ericsson
Rui Hua	Huawei	Huawei
Yan Zhuang	Huawei	Huawei
Matthias Wendt	Philips	Philips
Lennart Yseboodt	Philips	Philips
Rick Frosch	Phihong	Phihong
Christian Beia	ST Micro	ST Micro
Jeff Heath	Linear	Linear
Valerie Maguire	The Siemon Co	TIA
David Law	HP	HP
David Abramson	TI	TI
David Tremblay	HP	HP
Phillip Brownlee	Coilcraft	Coilcraft
Brad Booth	Dell	Dell
Paul Vanderlaan	Benk-Tek	Nexans
Wayne Larsen	Commscope	Commscope
Pavlik Rimboim	Microsemi	Microsemi
Yair Darshan	Microsemi	Microsemi
Dave Dwelley	Linear	Linear

May 15, 2013 Attendance

Name	Employer	Affiliation
Chad Jones	Cisco	Cisco
Wael Diab	Broadcom	Broadcom
Rui Hua	Huawei	Huawei
Yan Zhuang	Huawei	Huawei
Matthias Wendt	Philips	Philips
Lennart Yseboodt	Philips	Philips
Rick Frosch	Phihong	Phihong
Christian Beia	ST Micro	ST Micro
Jeff Heath	Linear	Linear
David Law	HP	HP

David Abramson	TI	TI
David Tremblay	HP	HP
Phillip Brownlee	Coilcraft	Coilcraft
Brad Booth	Dell	Dell
Pavlik Rimboim	Microsemi	Microsemi
Yair Darshan	Microsemi	Microsemi
Dave Dwelley	Linear	Linear
Xin Chang	Huawei	Huawei