

# IEEE 802.3 SPMD SG AdHoc meeting

## 6 May 2020

Prepared by Peter Jones

### Presentations posted at:

<http://www.ieee802.org/3/SPMD/index.html>

### Agenda/Admin Peter Jones:

Meeting began at 7:05am PT.

1. Reviewed the Attendance information related to the ad hoc(s).
  - a. Reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.
2. Reviewed agenda and asked for approval of previous minutes?
  - a. Fix the following
    - i. Spelling Heath Stewart's name in April 8<sup>th</sup> minutes
    - ii. George Zimmerman's affiliations for March 11 and April 8.
  - b. Approved without objection.
3. Displayed pre-par slide deck, reviewed participation conditions.  
<https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.ppt>  
<https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt>

### Presentations/Discussion.

#### Usecase: Entertainment Lighting Controls

##### Jason Potterf Cisco

- EMC environment?
  - Add to use case template?
  - Mostly from power distribution – hits audio first – often have moved to Ethernet. Also used to see this from radio.
  - Has not been an issue for lighting so far (e.g., low bit rates, shielded cable)
  - Not worse than automotive/industrial environment
- Current DMX systems are not safety rated, can't be used for pyro/flame throwers etc
  - Proprietary systems used.
  - Opportunity for SPMD
  - May spill over to fire/smoke systems
- Addressing
  - Used to be dip switches, moved to LCD, not ubiquitous.
  - Protocols (e.g. RDM) added later to help resolve

- PTP
  - Not in the lighting market
  - more important in automation (moving parts) and film.
- Where is the MAC relay? Every device or at the end of cables.
- Co-bundling SPE with power
  - Possible HVDC?
- Market size - \$\$ vs nodes?
  - Hard to say, depends.

## Applying lessons learned from PoE to mPoE

### Jason Potterf      Cisco

- Use active T for active/standby PSE?
  - Not clear this solves the active/standby switch+data
  - Needs more discussion
- Active – T
  - Any objective updates?
  - Use to address active/standby PSE? Not clear this solves the active/standby switch+data use case.
  - Pls in parallel? Impact on magnetics
  - Mandate active T? Concern about mandating this – impact on adoption.
- Engineered industrial vs this space. Was low power.
  - Discussion on goals for SPMD

## Progressing the group

### Chad Jones      Cisco

- Upcoming interim meeting to progress PAR/CSD/Objectives May 18<sup>th</sup> – 7-9am PT.
- Review objectives
  - Mandatory connector? Accepted objective. Common practice in specific application spaces.
  - Mandatory or not? 10BASE-T states “shall”.
  - Compliant vs interop
  - IPR & licensing?
  - Could address with an ‘installation’ option called out in the PICS.
    - Just like the link segment requirements are. The specification would only call out one connector, but the PICS would have a \*INS :Items marked with INS include installation practices and cable specifications not applicable to a PHY manufacturer
- Strongly request submission of motions re objective modifications by May 14<sup>th</sup> to assist with consensus building.

Meeting closed – ~9:05 PT

**Attendees (from Webex + emails)**

Name	Employer	Affiliation	Attended May 06
Andrew Gardner	Analog Devices	Analog Devices	y
Arkadiy Peker	Microchip	Microchip	y
Bruce Nordman	Lawrence Berkeley National Laboratory	Lawrence Berkeley National Laboratory	y
Christopher Pohl	Beckhoff Automation	Beckhoff Automation	y
Clark Carty	Cisco	Cisco	y
Chad Jones	Cisco	Cisco	y
Cornelia Eitel	Belden	Belden	y
Dave Hess	CordData	CordData	y
Eric DiBiaso	TE	TE	y
Fred Dawson	Chemours	Chemours	y
Geoff Thompson	Independent	Independent	y
George Zimmerman	CME Consulting	ADI Cisco Systems CommScope Marvell SenTekSe	y
Gergely Huszak (Kone)	Kone	Kone	y
Gideon Intrater	Adesto	Adesto	y
Harry Aller	Innovative Light	Innovative Light	y
Haysam M. Kadry	Ford	Ford	y
Heath Stewart	Analog Devices	Analog Devices	y
Jason Potterf	Cisco	Cisco	y
Jim Baldwin	Domatic	Domatic	y
Kirsten Matheus	BMW	BMW	y
Mark Dearing	Leviton	Leviton	y
Masood Shariff	CommScope	CommScope	y
Matthias Fritsche	Harting	Harting	y
Mick McCarthy	Analog Devices	Analog Devices	y
Paul Vanderlaan	UL	UL	y
Peter Jones	Cisco	Cisco	y
Ron Tellas	Belden	Belden	y
Rory Buchanan	Onsemi	Onsemi	y
Scott Wade	WadeLux/DiiA	WadeLux/DiiA	y

Steve Carlson	High Speed Design, Inc.	Robert Bosch Ethernovia	y
Steve Sedio	TDK	TDK	y
Thomas Rettig	Beckhoff Automation	Beckhoff Automation	y
Tim Baggett	Microchip	Microchip	y
Wojciech Koczwara	Rockwell Automation	Rockwell Automation	y
Attendees			34