

## IEEE 802.3 SPMD SG AdHoc meeting

### DATE

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. 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.

#### SPMD Usecase For Buildings

**David Hogle**      **Independent**

- 24VAC?
  - Anything LV will do but move to DC not simple.
- Response time for lights?
  - ~200-250ms
- What standards body writes division 23?
  - Construction specification institute – rcat??
- How flexible is the relative value split between install and controllers? Put another way, can we add value to individual controllers?
  - hard problem to solve
- what about wired vs wireless?
  - Wired is tradition, wireless coming from newer entrants in market
- Geographic trends? NA vs other regions?
  - Depends on region.
- SPMD impact
  - 10-30 sensors per controller
  - Reduced function field bus
- What types of customers are going IP, and what is the perceived value?

- Desire for converged network, expectation that field bus lifetime will not match building/wiring lifetime
- Buildings vs cars
  - Same drivers re wiring
  - Cars are engineered and sold as complete systems, building are designed/assembled in the field
- PTP
  - Required for fire systems
- Market size
  - Depends on adoption on sensors, likely to be slow
- Actuator power
  - Can we sequence the power needs to address the infrequent need for high power?
  - How much does an actuator need? Maybe tops out ~10W
  - How to deal with the variable power needs?
- If industry is early in transition to IP, which are key industry groups? We know about ASHRAE, but who else?
  - What about smart building groups?
- BACnet SC for security?
  - Limited ability to incorporate other technologies
- Role for 802.1?
  - Like auto and industrial profiles. Get briefing from 802.1 industrial people about how they are approaching the issues
  - Needs building people in 802.1 to do work
- Segmentation of systems
  - Owner initiated projects more interested on converged networks, more of them in Europe & East Asia.
  - Bid basic system and offer additional options on top
  - SPE/SPMD enables IP to sensors
- To ask - How do we influence major real estate groups like CBRE, JLL, etc
  - Hard to say. These groups have significant influence on the “best practice”
- Room vs Floor
  - Depending on functions, there is a lot of local control, e.g., levels of delegation
  - A floor is built out of a set of rooms
  - When a system is installed affects if it can/does us IP/IT infrastructure
- BACnet/IP has been around for a while, barriers to adoption
  - Needs new controller HW design approach
  - Sensors could move from propriety to bacnet/ip
  - Configuration/organization is an issue, architecture under review

## Discussion - Chad – Cisco

- Virtual is the new normal

- Any need/plan for telephonic interim?
  - No plan at present
  - If needed when PAR/CSD go to 802

Meeting closed – 8:55 PT

### Attendees (from Webex + emails)

Name	Employer	Affiliation	Attended 04/22
Ari Kattainen	Kone	Kone	y
Arkadiy Peker	Microchip	Microchip	y
Bruce Nordman	Lawrence Berkeley National Laboratory	Lawrence Berkeley National Laboratory	y
Alessandro Ingrassia	Canova Tech	Canova Tech	y
Chad Jones	Cisco	Cisco	y
Christopher Pohl	Beckhoff Automation	Beckhoff Automation	y
Dave Hess	CordData	CordData	y
David Hoglund	Independent	Independent	y
David Law	HPE	HPE	y
Doug Oliver	Ford	Ford	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
James Withey	Fluke	Fluke	y
Jason Potterf	Cisco	Cisco	y
Kirsten Matheus	BMW	BMW	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
Rory Buchanan	Onsemi	Onsemi	y
Scott Wade	WadeLux/DiiA	WadeLux/DiiA	y
Steve Sedio	TDK	TDK	y
Wojciech Koczwara	Rockwell Automation	Rockwell Automation	y

Attendees			28
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