

Agenda

Power Delivery Coordination Committee (PDCC) Adhoc

Chad Jones

Cisco Systems, Inc.

Telephonic Meeting, 27 September 2023

Agenda

- Review agenda
- Attendance
- IEEE boilerplate slides
- ~~Minutes~~
- ~~Presentations~~
- ~~Liaisons~~
- Future meetings

Attendance

- Taken from the WebEx log and IMAT
- Tutorial Material on attendance tool
 - http://iee802.org/3/minutes/attendance_procedures.pdf
 -
- Access details
 - URL: <http://imat.ieee.org/>
 - Password:

GUIDELINES FOR IEEE WORKING GROUP MEETINGS

- All IEEE SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus.
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed. Formally object to the discussion immediately.

For more details, see *IEEE SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct

- All participants in IEEE-SA activities are expected to adhere to the core principles underlying the:
 - [IEEE Code of Ethics](#)
 - [IEEE Code of Conduct](#)
- The core principles of the IEEE Codes of Ethics & Conduct are to:
 - *Uphold the highest standards of integrity, responsible behavior, and ethical and professional conduct*
 - *Treat people fairly and with respect, to not engage in harassment, discrimination, or retaliation, and to protect people's privacy.*
 - *Avoid injuring others, their property, reputation, or employment by false or malicious action*
- The most recent versions of these Codes are available at <http://www.ieee.org/about/corporate/governance>

Participants in the IEEE-SA “*individual process*” shall act independently of others, including employers

- The [IEEE-SA Standards Board Bylaws](#) require that “*participants in the IEEE standards development individual process shall act based on their qualifications and experience*”
- This means participants:
 - **Shall act & vote** based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
 - **Shall not act or vote** based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
 - **Shall not direct** the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions
- By participating in standards activities using the “*individual process*”, you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation

IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

- The [IEEE-SA Standards Board Bylaws](#) (clause 5.2.1.3) specifies that *“the standards development process shall not be dominated by any single interest category, individual, or organization”*
 - This means no participant may exercise *“authority, leadership, or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints”* or *“to hinder the progress of the standards development activity”*
- This rule applies equally to those participating in a standards development project and to that project’s leadership group
- Any person who reasonably suspects that dominance is occurring in a standards development project is encouraged to bring the issue to the attention of the Standards Committee or the project’s IEEE-SA Program Manager

IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

Reflector and Web

- To subscribe to the PDCC adhoc reflector, send an email to:

ListServ@ieee.org

with the following in the body of the message (do not include “<>”):

subscribe stds-802-3-PDCC <yourfirstname> <yourlastname>

end

- Send PDCC adhoc reflector messages to:

stds-802-3-PDCC@listserv.ieee.org

- Ad Hoc web page URL:

http://www.ieee802.org/3/ad_hoc/PDCC/index.html

- Ad Hoc private area URL:

http://www.ieee802.org/3/ad_hoc/PDCC/private/index.html

Agenda

- Delegation to IEC SC25/WG3

Maintenance Request

Warning to system designers:

Not all cabling supports 2A per conductor, and the current carrying capacity of both single pair cabling and multi-pair cabling used for cable sharing within the link segment may not be sufficient to support the power supplied by the PSE.

In particular, the ISO/IEC 11801-1 Amd1 specification contains two cabling options for Single Pair Ethernet (SPE) with power, one of which supports 2.0 A per conductor and another supporting only up to 0.75 A per conductor. Generally, the 0.75 A option is constructed by combining four SPE links into the typical 4P category cable, (i.e. Cat5e, Cat6, etc.).

IEEE 802.3 Clause 104 compliant PSEs can supply more than 0.75 A and have no way to know what type of cable is connected to the PSE. Therefore, it is expressly disallowed that a complaint IEEE 802.3 SPE PoDL system use any cabling where the current capacity is less than the highest supported current for the PSEs attached to that link segment. As of this publication, this current is 1.58 A as defined by Clause 104, Table 104-2.

Ignoring this warning could result in premature degradation of your cabling, which could cause performance issues or yield inoperable links.

Installing cabling with a capacity less than the listed PSE output current may violate installation requirements. Please consult any local and national safety regulations.

IEEE 802.3 strives to publish interoperability standards that result in a 'plug-and-play' experience. Use of cabling that does not support the full current capacity results in an engineered system design, eliminating the desired plug-and-play interoperability.

Next meeting

Wednesday, 4 October 2023, 1 PM ET

Thank You!