

# IEEE 802.3 Maintenance Task Force

## 23 May 2022

Adam Healey, Broadcom Inc.  
Chair, IEEE 802.3 Maintenance TF  
Vice Chair, IEEE 802.3 Ethernet WG

# Voting at electronic meetings

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- IEEE 802.3 Operations Manual 3.4.2

There are two type of votes in the TF; votes on motions and votes in straw polls.

In face-to-face meetings where a TF is operating with membership rules for voting (see 3.3) only the TF members may make and vote on motions. In face-to-face meetings where membership rules are not in force all TF participants may make and vote on motions, subject only to the provision that they believe that they are qualified to vote on the matter before the TF. Electronic meetings that will consider motions shall be approved by the WG Chair prior to the meeting announcement. In such meetings only IEEE 802.3 Working Group members may make and vote on motions. If a motion is not approved by unanimous consent it shall be taken as a roll call vote.

In all cases, regardless of any membership rules that may or may not be in force, all participants who feel qualified may participate in a straw poll.

# Decorum

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- **Please MUTE if you are not speaking**
- An officer is permitted to make an audio or slideshow recording of this meeting exclusively for the purpose of generating minutes which shall not be copied or distributed. IEEE 802.3 meetings do not use this option. Recording of the proceedings by any other participant or observer, in part or in whole, via any means, is prohibited.  
(*January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.2*)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence  
(*January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.3*)
- The conference tool in use for this meeting has a chat function. Public, and in some cases private chats, are available to the teleconference host after the meeting, and should be treated as a public statement that could appear in the minutes. The public chat function shall only be used for official business related to the meeting, as determined by the Chair. Parallel discussions between participants using the public chat function can be a distraction from the meeting and the Chair or designee will ask participants to cease such discussions should they occur.
- Please observe proper decorum in meetings

# Agenda

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- Review and approve agenda
- Approve meeting minutes
- Guidelines for IEEE-SA Meetings
- IEEE-SA Copyright policy
- Participation in IEEE 802 Meetings
- Attendance procedures
- Revision
- Consideration of maintenance requests
- Future meetings

# Agenda motion

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- Motion #1: Approve the agenda
  - M: M. Hajduczenia                      S: J. Weaver
  - Procedural (> 50%)
  - Passed by unanimous consent
- March minutes posted on 10 March and April minutes posted on 4 April
- Motion #2: Approve the [March 2022](#) and [April 2022](#) minutes
  - M: M. Hajduczenia                      S: J. Weaver
  - Procedural (> 50%)
  - Passed by unanimous consent

# INSTRUCTIONS FOR THE WG CHAIR

The IEEE SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides 1 through 4 of this presentation
- Advise the WG attendees that:
  - IEEE's patent policy is described in Clause 6 of the *IEEE SA Standards Board Bylaws*;
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
  - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
  - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
  - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
  - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE SA Standards Board.

# **PARTICIPANTS HAVE A DUTY TO INFORM THE IEEE**

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential  
Essential Patent Claims is encouraged**

# **WAYS TO INFORM IEEE**

- **Cause an LOA to be submitted to the IEEE SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or**
- **Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or**
- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair



## OTHER 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.

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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>

# **PATENT-RELATED INFORMATION**

The patent policy and the procedures used to execute that policy are documented in the:

- **IEEE SA Standards Board Bylaws**  
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- **IEEE SA Standards Board Operations Manual**  
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at  
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE SA  
Standards Board Patent Committee  
Administrator at [patcom@ieee.org](mailto:patcom@ieee.org)**

# INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

**At the beginning of each standards development meeting the chair or a designee is to:**

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
- Instruct the Secretary to record in the minutes of the relevant meeting:
- That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).

# **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.

# IEEE SA COPYRIGHT POLICY

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual
  - IEEE SA Copyright Policy, see  
Clause 7 of the IEEE SA Standards Board Bylaws  
<https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7>  
Clause 6.1 of the IEEE SA Standards Board Operations Manual  
<https://standards.ieee.org/about/policies/opman/sect6.html>
- IEEE SA Copyright Permission
  - <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip>
- IEEE SA Copyright FAQs
  - <http://standards.ieee.org/faqs/copyrights.html/>
- IEEE SA Best Practices for IEEE Standards Development
  - [http://standards.ieee.org/develop/policies/best\\_practices\\_for\\_ieee\\_standards\\_development\\_051215.pdf](http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf)
- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
  - <https://standards.ieee.org/about/policies/opman/sect6.html>

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## 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>

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## 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

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## 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



# Attendance procedures

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- IEEE Meeting Attendance Tool
  - <http://imat.ieee.org/>
  - Session access code: **XXXXXX**
- For more information, please see...
  - [http://ieee802.org/3/minutes/attendance\\_procedures.pdf](http://ieee802.org/3/minutes/attendance_procedures.pdf)

# Revision

[Ballot results, comment resolution, motion(s)]

# IEEE P802.3 (IEEE 802.3dc) Revision Task Force

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- Task Force Organization
  - Adam Healey, Chair and Editor-in-Chief
  - Pete Anslow, Section Editor
  - Marek Hajduczenia, Section Editor
  - Jon Lewis, Section Editor
  - Adee Ran, Section Editor
- Task Force web and reflector information
  - Reflector: <http://www.ieee802.org/3/maint/reflector.html> (Maintenance TF reflector)
  - Home page: <https://www.ieee802.org/3/dc/index.html>

# IEEE P802.3 (IEEE 802.3dc) ballot results

- D3.0 initial SA ballot (opened 1 December 2021, closed 31 December 2021)
- D3.1 1<sup>st</sup> SA recirc. ballot (opened 15 February 2022, closed 2 March 2022)
- D3.2 2<sup>nd</sup> SA recirc. ballot (opened 15 March 2022, closed 30 March 2022)

	D3.0				D3.1				D3.2			
	Count	%		Status	Count	%		Status	Count	%		Status
		Actual	Req'd			Actual	Req'd			Actual	Req'd	
Abstain	3	2	< 30	PASS	3	2	< 30	PASS	3	2	< 30	PASS
Disapprove	10	-	-	-	4	-	-	-	2	-	-	-
Disapprove w/o comment	0	-	-	-	0	-	-	-	0	-	-	-
Approve	92	90	≥ 75	PASS	108	96	≥ 75	PASS	111	98	≥ 75	PASS
Ballots returned	105	77	≥ 75	PASS	115	84	≥ 75	PASS	116	85	≥ 75	PASS
Voters	136	-	-	-	136	-	-	-	136	-	-	-
Comments	110	-	-	-	20	-	-	-	1	-	-	-

# Revision project status

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## Recirculation ballot and comment resolution meeting schedule

2 <sup>nd</sup> Standards Association recirculation ballot day 1	16 March 2022	✓
RevCom submittal deadline	17 March 2022	✓
2 <sup>nd</sup> Standards Association recirculation ballot close	30 March 2022	✓
IEEE P802.3 comment resolution meeting	4 April 2022	✓
RevCom teleconference meeting	27 April 2022	✓

**IEEE Std 802.3-2022 was approved by the  
IEEE SA Standards Board on 13 May 2022!!!**

# Revision schedule

Project	2021												2022											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
P802.3ck			WGB								SAB							Std!						
P802.3cp						Std!																		
P802.3cs			WGB								SAB							Std!						
P802.3ct						Std!																		
P802.3cv	SAB				Std!																			
P802.3cw																					WGB			
P802.3cx									WGB							SAB					Std!			
P802.3cy																	WGB						SAB	
P802.3cz																WGB							SAB	
P802.3da	d	Nes/RevCom submission deadline																						
P802.3db	n	NesCom teleconference																						
P802.3dd	r	RevCom teleconference																						
P802.3de	b	SB teleconference																						
P802.3df	s	SASB meeting series																						
P802.3dc							WGB				SAB					Std!								
SASB	nr	d	d s	nr d		nrb		d	d s	d nr		s d	nr	d	d s	nr d	s		d	d s	d nr		s	

# Consideration of maintenance requests

# Maintenance request status

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- 4 new requests received
- 74 open maintenance requests
- Current status of open requests
  - Approved 68
  - Balloting 0
  - Ready for ballot 2
  - Awaiting clarification 0
  - Errata 0
  - To be categorized 4
- Also see [http://www.ieee802.org/3/maint/requests/open\\_num.html](http://www.ieee802.org/3/maint/requests/open_num.html)



# Maintenance requests to be categorized

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No.	Date	Standard	Clause	Subject
<a href="#">1394</a>	18-Feb-22	802.3-2022	98.2.1	Clause 98 HSM support
<a href="#">1395</a>	22-Mar-22	802.3-2022	147.8	Mixing segment specifications
<a href="#">1396</a>	22-Mar-22	802.3-2022	147.8	Mixing segment specifications
<a href="#">1397</a>	01-Apr-22	802.3-2022	1.4.473	Definition of “PoDL PSE”

# Maintenance request 1394

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- In Clause 98, list of PHYs that are required to support high-speed mode (HSM) is incomplete
- Proposed change  
*If Auto-Negotiation is implemented, 1000BASE-T1, 100BASE-T1, ~~and~~ 10BASE-T1S, and all single-pair Ethernet PHYs faster than 1 Gb/s shall support HSM and may optionally support LSM.*
- Set status to “Ready for ballot”

Complete: Y In scope: Y Errata: N
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# Maintenance request 1395

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- Add note at the end of 147.8

*NOTE—The mixing segment specifications in 147.8 are to be met without MDI attachments or stub terminations.*

- Set status to “Ready for ballot”

Complete: Y In scope: Y Errata: N
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# Maintenance request 1396

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- Add note at the end of 147.8.1

*NOTE—In order to account for the differences in source and load impedances the specified loss is based on voltage ratios.*

- Set status to “Ready for ballot”

Complete: Y In scope: Y Errata: N
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# Maintenance request 1397

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- Change the definition of PoDL PSE (1.4.473)

*A device that provides power to a PoDL PD, connected via a link section consisting of a single twisted pair. ~~DTE powering is intended to provide a single 100BASE-T1 or 1000BASE-T1 device with a unified interface for both the reception and transmission of data as well as the power to operate. (See IEEE Std 802.3, Clause 104.)~~*

- Note that the definition of PoDL PD (1.4.472) is:

*A Powered Device that is intended to receive power from a link section consisting of a single twisted pair. (See IEEE Std 802.3, Clause 104.)*

- Request submitter to resubmit the request with the “(See...)” parenthetical in the proposed revision text

Complete: Y In scope: Y Errata: N
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# Future meetings

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- Future meetings will be announced on the Task Force reflector

# Adjourn