

# IEEE 802.3 Maintenance Task Force

## 21 January 2020

### Geneva, CH

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

# Agenda

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- Introductions
- Review and approve agenda
- Approve minutes
- Guidelines for IEEE-SA Meetings
- IEEE-SA Copyright policy
- Participation in IEEE 802 Meetings
- Attendance procedures
- Consider open maintenance requests
- Request to IANA
- Discuss future revision plan
- Future meetings

# Agenda and minutes motions

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- Motion #1: Approve the agenda as amended
  - M: B. Grow                      S: D. Law
  - Procedural (> 50%)
  - Passed by voice without opposition
- November 2019 minutes were posted 14 November 2019
- Motion #2: Approve the [November 2019](#) minutes
  - M: D. Law                      S: B. Grow
  - Procedural (> 50%)
  - Passed by voice without opposition

# Guidelines for IEEE-SA 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 ... do formally object.

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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>

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: **Xxxxxxxx**
- For more information, please see...
  - [http://ieee802.org/3/minutes/attendance\\_procedures.pdf](http://ieee802.org/3/minutes/attendance_procedures.pdf)
- Please sign the attendance sheet for the Task Force meeting minutes

# Maintenance request status

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- 8 new requests received since November 2019 meeting
- Deadline for consideration was 17 December 2019
- 52 open maintenance requests
- Current status of open requests
  - Approved 0
  - Balloting 12
  - Ready for ballot 30
  - Awaiting clarification 0
  - Errata 0
  - To be categorized 10
- Also see [http://www.ieee802.org/3/maint/requests/open\\_num.htm](http://www.ieee802.org/3/maint/requests/open_num.htm)

# Maintenance requests to be categorized

- For consideration this meeting

No.	Date	Standard	Clause	Subject
1344	05-May-19	802.3-2018	99.4.6	Incorrect primitive name
1351	10-Dec-19	802.3-2018	55.4.6.3	Incorrect cross-reference
1352	10-Dec-19	802.3cd-2018	45.2.1.111.1, 45.2.1.111.2	Generalize text describing number of lanes
1353	10-Dec-19	802.3cd-2018	Table 69-3b	Add Clause 118 to table
1354	11-Dec-19	802.3cd-2018	136.8.11.7.3	Text contradicts state diagram
1355	12-Dec-19	802.3-2018	96.9.2.1	Incorrect reference
1356	12-Dec-19	802.3-2018	97.9.2.1	Incorrect reference

- For consideration at next meeting

No.	Date	Standard	Clause	Subject
1357	13-Jan-20	802.3-2018	99.1	Include 10 Mb/s in Clause 99 introduction
1358	14-Jan-20	802.3cb-2018	125.3	Incorrect conversion of units

# Maintenance request 1344

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- Proposes to change 99.4.6 as follows  
... the Express filter ~~passes the RS PLS\_DATA.request~~issues ePLS\_DATA.indications to the eMAC ...
- The actual issue seems to be that “RS PLS\_DATA.request” should be “RS PLS\_DATA.indication”
- The proposed text loses the fact that ePLS\_DATA.indication conveys values received via RS PLS\_DATA.indication
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Ask the submitter to consider updating the request to only change “RS PLS\_DATA.request” to “RS PLS\_DATA.indication”

# Maintenance request 1351

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- In Figure 55–31, NOTE 2, change (Figure 28–16) to (Figure 28–18)
- The note refers to the Arbitration state diagram which is Figure 28–18
- Reference was not updated after two figures were inserted in Clause 28
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Mark this request as “Ready for ballot”

# Maintenance request 1352

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- IEEE Std 802.3cd-2018 amends 45.2.1.111.1

Bit 1.201.15 indicates the PCS alignment status of the RS-FEC. For the RS-FEC described in Clause 91 [or Clause 134](#), PCS alignment is defined as block lock, alignment marker lock, and deskew of all 20 transmit PCS lanes.

- Clause 134 has 4 (not 20) PCS lanes – Remove “20”
- Similarly, 45.2.1.111.2 is amended

Bit 1.201.14 indicates the PMA alignment status of the RS-FEC. For the RS-FEC described in Clause 91 [or Clause 134](#), PMA alignment is defined as alignment marker lock and deskew of all four lanes on the PMA service interface.

- Clause 134 maps PCS lanes to 2 (not 4) FEC lanes – Remove “four”
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Mark this request as “Ready for ballot”



# Maintenance request 1353

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- In Table 69–3b “Nomenclature and clause correlation for 200 Gb/s Backplane Ethernet Physical Layers”, add a column for Clause 118 (200G XMI extender) and mark it as “O” optional for 200GBASE-KR4
- Change would align it to Table 116–2a “PHY type and clause correlation (200GBASE copper)”
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Mark this request as “Ready for ballot”

# Maintenance request 1354

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- 136.8.11.7.3 defines max\_wait\_timer and states “It is started upon entry to the INITIALIZE state of the PMD control state diagram.”
- The PMD control state diagram starts this timer in the TRAIN\_LOCAL state
- State diagrams take precedence over text
- Remove the contradictory sentence from 136.8.11.7.3
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Mark this request as “Ready for ballot”

# Maintenance request 1355

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- “ISO 16750-5” is incorrectly cited as “ISO 167540-5” in 96.9.2.1 and 96.11.4.9...fix it
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Mark this request as “Ready for ballot”

# Maintenance request 1356

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- “ISO 16750-5” is incorrectly cited as “ISO 167540-5” in 97.9.2.1 and 97.11.13...fix it
- In scope: Yes/~~No~~
- Errata: ~~Yes~~/No
- Complete: Yes/~~No~~
- Mark this request as “Ready for ballot”

# Request to IANA

[Review file, motion]

# Request to IANA motion

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- Motion #3: Approve submission of the contents of IANA\_request\_0120.pdf with editorial license granted to the Chair (or his appointed agent) as a request from the IEEE 802.3 Working Group to the Internet Assigned Numbers Authority (IANA).
  - M: S. Graber                      S: A. Andersdotter
  - Technical ( $\geq 75\%$ )
  - Passed by voice without opposition

# Future revision plan

[Discussion]

# Future meetings

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- Week of 16 March 2020
  - Atlanta, GA USA
- Week of 18 May 2020
  - Pasadena, CA USA
- See <http://www.ieee802.org/3/interims/index.html>



# Adjourn