

# IEEE 802.3 Maintenance Task Force

## 7<sup>th</sup> March 2018

### Rosemont, IL USA

Adam Healey  
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
- Patent policy
- Participation in IEEE 802 Meetings
- Attendance procedures
- Review status of open revision requests
- Review revision plan and progress
- Comment resolution
- Future meetings

# Agenda and minutes motions

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- Motion #1: Approve the agenda
  - M: S. Trowbridge                      S: P. Anslow
  - Passed by voice vote without opposition
  
- Motion #2: Approve the [January 2018 minutes](#)
  - M: P. Anslow                              S: S. Gorshe
  - Passed by voice vote without opposition
  
- Minutes were posted 25 January 2018

# 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); 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 WG 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>

# 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)**



# Participation in IEEE 802 Meetings

**Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis**

- **Participants in the IEEE standards development individual process shall act based on their qualifications and experience. ([https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1)**
- **IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)**
- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see [https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.**

**By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.**

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

# Attendance procedures

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- IEEE Meeting Attendance Tool
  - <http://imat.ieee.org/>
- 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 ballot status

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- [http://www.ieee802.org/3/maint/requests/open\\_num.html](http://www.ieee802.org/3/maint/requests/open_num.html)

# New maintenance requests

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- None.

# Maintenance request status

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- 35 open maintenance requests
- Current status of open requests
  - Approved 0
  - Balloting 22
  - Ready for ballot 13
  - Awaiting clarification 0
  - Errata 0
  - To be categorized 0

# Maintenance requests for consideration

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- None.

# Revision plan and progress

# Proposed revision plan

7/13/2017	WB approval	2/28/2018	SB-r1 closes
7/23/2017	WB day 1	3/7/2018	Maintenance TF meeting
8/21/2017	WB closes	3/9/2018	Cond. approval RevCom submittal
9/13/2017	Maintenance TF meeting	3/14/2018	SB-r2 day 1
9/29/2017	WB-r1 day 1	3/16/2018	RevCom submit. deadline (April)*
10/13/2017	WB-r1 closes	3/28/2018	SB-r2 closes
11/8/2017	Maintenance TF meeting	4/6/2018	Cond. interim telecon meeting #1
11/10/2017	SB approval	4/10/2018	SB-r3 day 1
12/6/2017	Amendments approved	4/24/2018	SB-r3 closes
12/11/2017	SB day 1	4/26/2018	RevCom telecon*
1/9/2018	SB closes	4/26/2018	Cond. interim telecon meeting #2
1/24/2018	Maintenance TF meeting	5/4/2018	RevCom submit. deadline (June)
2/14/2018	SB-r1 day 1	6/12/2018	Start of SASB meeting series

\* Pre-submit for April RevCom telecon only if high confidence that SB-r2 is the last recirculation.



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

- D3.0 initial Sponsor ballot (“Day 1” 11 Dec. 2017, closed 9 Jan. 2018)
- D3.1 1<sup>st</sup> Sponsor recirc. ballot (“Day 1” 14 Feb. 2018, closed 28 Feb. 2018)

	D3.0				D3.1			
	Count	%		Status	Count	%		Status
		Actual	Req'd			Actual	Req'd	
Abstain	9	7	< 30	PASS	8	6	< 30	PASS
Disapprove	6	-	-	-	7	-	-	-
Disapprove w/o comment	0	-	-	-	0	-	-	-
Approve	105	94	≥ 75	PASS	114	94	≥ 75	PASS
Ballots returned	120	81	≥ 75	PASS	129	87	≥ 75	PASS
Voters	147	-	-	-	147	-	-	-
Comments	121	-	-	-	49	-	-	-

# Comment resolution

# Comment agenda (16)

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- Definition of “lane” 24
- Define PCS FEC codeword counters (CI 45) 16
- QUICK\_FIND state (CI 82) 25
- Skew 47
- Conversion of 50G/lane jitter to 100G/lane 33, 42, 43
- Convert SNR\_ISI and RL to ERL (120D) 23
- Add VEC (120E) 31, [anslow\\_2\\_0318.pdf](#)
- Receiver sensitivity (CI 121, 122, 124) 18, [anslow\\_1\\_0318.pdf](#)
- New Tx specification (CI 121, 122, 124) 35
- TDECQ 36, [17, 37]
- SRS test calibration 20
- Align CI 116-124 to P802.3cd 29

# “Bucket-worthy” comments (33)

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• MEC	4
• Spelling, grammar, punctuation, capitalization, x-refs	1, 2, 5, 7, 8, 9, 10, 14, 32
• Formatting (numbers, fonts, etc.), units	21, 22, 38
• Table format	27, 29, 30
• FEC not optional for Clause 119 (CI 30)	11
• FECIndication vs. FECBypassIndication (CI 30)	12
• RS-FEC vs. PCS FEC (CI 30)	6, 13
• Pointer to extension register (CI 45)	15
• Skew	[34, 44], 45, 46, 48
• Test fixtures (CI 85)	40, 49
• 100 Ohm differential or 2 x 50 Ohm? (CI 93)	28
• FEC degrade not entirely optional (CI 116)	19
• restart_lock definition (CI 119)	3
• Channels vs. signals (120E)	26
• Reference equalization description (CI 121/124)	41

# Revision motion

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- Motion #3:
- Adopt proposed responses to remaining comments labelled “Bucket” in [P8023-D3p1-Comments-Proposed-byID.pdf](#)
- Generate Draft 3.2 for Sponsor ballot recirculation from D3.1 and closed comments
  - Technical  $\geq 75\%$
  - M: P. Anslow      S: P. Stassar
  - Passed by voice without opposition

# Conditional approval motion

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- Motion #4:
- Request conditional approval to submit the IEEE P802.3 (IEEE 802.3cj) draft to RevCom once the Sponsor ballot process has been successfully completed.
  - Technical  $\geq 75\%$
  - M: S. Trowbridge                      S: P. Anslow
  - Passed by voice without opposition

# Future meetings

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- 6<sup>th</sup> April
  - Contingent interim teleconference meeting #1
- 26<sup>th</sup> April
  - Contingent interim teleconference meeting #2
- Week of 21 May
  - Pittsburgh, PA USA
- See <http://www.ieee802.org/3/interims/index.html>

# Adjourn