

IEEE P802.3 (IEEE 802.3bx)  
Revision to IEEE 802.3-2012  
Maintenance #11 Task Force  
12<sup>th</sup> January 2015  
Atlanta, GA USA

Adam Healey  
Chair, IEEE P802.3 (IEEE 802.3bx) TF  
Vice-Chair, IEEE 802.3 Working Group

# Agenda

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- Introduction
- Review patent slides
- Review and approve agenda
- Approve minutes
- Review status of open revision requests
- IEEE P802.3/D2.0 ballot results
- IEEE P802.3/D2.0 comment resolution
- Review revision plan
- Future meetings

# Editorial team

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<b>Pete Anslow</b>	<b>Section 4 and Section 6 editor</b>
<b>Marek Hajduczenia</b>	<b>Section 5 editor</b>
<b>Adam Healey</b>	<b>Section 2 and Section 3 editor, Editor-in-chief</b>
<b>Valerie Maguire</b>	<b>Section 1 editor</b>

# 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:
  - The 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 the IEEE is not aware. Additionally, neither the 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 12 and 12a 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, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- **Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:**
  - **“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**
    - **“Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims**
  - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)**
- **The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group**
- **Early identification of holders of potential Essential Patent Claims is strongly encouraged**
- **No duty to perform a patent search**

# Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards 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) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at  
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>



# 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:
  - Either speak up now 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
  - Cause an LOA to be submitted

# 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, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
      - Technical considerations remain 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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See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy” for more details.



# Agenda and Minutes Motions

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- Motion #1: Approve the agenda
  - M: Pete A.                      S: Pete C.
  - Passes by voice vote without opposition
  
- Motion #2: Approve the November 2014 minutes
  - M: G. Thompson                S: P. Cibula
  - Passes by voice vote without opposition

# Attendance

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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

# Revision request ballot status

#	Nov-14	Jan-15	Target project	Update
<a href="#">1238</a>	<a href="#">B</a>	V	Revision	
<a href="#">1239</a>	<a href="#">B</a>	V	Revision	
<a href="#">1242</a>	<a href="#">V</a>	V	P802.3bm	Initial LMSC Sponsor Ballot comment i-21
<a href="#">1243</a>	<a href="#">B</a>	V	Revision	
<a href="#">1244</a>	<a href="#">V</a>	V	P802.3bm	Initial LMSC Sponsor Ballot comment i-22
<a href="#">1246</a>	<a href="#">V</a>	V	P802.3bm	Initial LMSC Sponsor Ballot comment i-23
<a href="#">1247</a>	<a href="#">B</a>	V	Revision	
<a href="#">1249</a>	<a href="#">B</a>	V	Revision	
<a href="#">1250</a>	<a href="#">B</a>	V	Revision	
<a href="#">1251</a>	<a href="#">B</a>	V	Revision	
<a href="#">1252</a>	<a href="#">V</a>	V	P802.3bm	Initial Working Group Ballot comment #31

# Revision request ballot status cont'd

#	Nov-14	Jan-15	Target project	Update
<a href="#">1253</a>	<a href="#">B</a>	V	Revision	
<a href="#">1254</a>	<a href="#">B</a>	V	Revision	
<a href="#">1255</a>	<a href="#">B</a>	V	Revision	
<a href="#">1256</a>	<a href="#">B</a>	V	Revision	
<a href="#">1257</a>	<a href="#">B</a>	V	Revision	
<a href="#">1258</a>	<a href="#">B</a>	V	Revision	
<a href="#">1259</a>	<a href="#">B</a>	V	Revision	
<a href="#">1260</a>	<a href="#">B</a>	V	Revision	
<a href="#">1262</a>	<a href="#">B</a>	V	Revision	
<a href="#">1263</a>	<a href="#">R</a>	J		Rejected because it is a request for a new feature
<a href="#">1264</a>	<a href="#">R</a>	W		Withdrawn by submitter
<a href="#">1265</a>	<a href="#">R</a>	V	Revision	

# Revision request ballot status cont'd

#	Nov-14	Jan-15	Target project	Update
<a href="#">1266</a>	<a href="#">R</a>	R	P802.3bq	
<a href="#">1267</a>	<a href="#">R</a>	V	Revision	Initial Working Group ballot comment #37
<a href="#">1268</a>	<a href="#">R</a>	V	Revision	Initial Working Group ballot comment #38
<a href="#">1269</a>	<a href="#">R</a>	V	Revision	Initial Working Group ballot comment #39
<a href="#">1270</a>	<a href="#">R</a>	V	Revision	Initial Working Group ballot comment #47

# New revision requests

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- No new revision requests received by deadline\*

\* Revision request 1271 received 13 January 2015 (post deadline)

# Revision request status

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- 26 open revision requests
- Current status of open requests
  - Approved 0
  - Ready for ballot 0
  - Balloting 25
  - To be categorized 1

# Ballot results

- Ballot opened 8 November 2014
- Ballot closed 11 December 2014
- 7 comments received after ballot closed (85 total)

Comments received: 78

	Count	%		Status
		Actual	Required	
Abstain	32	20.00	< 30	PASS
Disapprove with comment	7	-	-	-
Disapprove without comment	0	-	-	-
Approve	121	94.53	≥ 75	PASS
Ballots returned	160	59.93	>50	PASS
Voters	267	-	-	-



# Comment summary (24)

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- Company ID ~~#53, #69~~
  - Implementer vs. implementor #20
  - PICS: Date of statement #50
  - Align draft with P802.3bm #8
  - Ordered set vs. ordered\_set #27
  - Definition of ordered set #26
  - Remove deprecated clauses #68
  - Out of date text ~~#56, #57~~
  - 100BASE-TX EEE (state diagrams) ~~#47, #48~~
  - EEE TLVs missing from bit string ~~#40, #70~~
  - Attribute assignment to package #41
  - Clause 33 ~~#59, #80, #60, #82, #81, #83~~
  - Text for reserved bits ~~#58~~
  - Bit range for SNR margin #10
  - Reserved registers #4
- Late comments highlighted in red.

# Comment summary, continued (18)

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- PCS type selection field #11
- MR12xx (Clause 53 jitter) ~~#49, #24~~
- 10GBASE-T “LPI cycle” **#79**
- 10GBASE-KR start-up #71
- Clause 75 TDP #9 (~~anslow\_1\_0115~~)
- Missing PICS #23
- 40/100GBASE-SR4/10 OM4 reach ~~#44, #45~~
- Skew variation #15
- rx\_down\_count definition #33
- PRBS9 description #7
- RS-FEC error marking #65 (~~slavick\_1\_0115~~)
- PMA SI lane vs. FEC lane ~~#66, #67, #75~~
- Which return loss? #28
- Clause 55 pma\_reset definition **#85**

Late comments highlighted in red.

# “Bucket-worthy” editorial (43)

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- Common mode vs. common-mode #19
- Typos #21, #76, #78, #36, #73, #74, #52, #29, #30
- Paragraph tag #22
- Management objects template #35
- Cross-references #2, #3, #17, #12, #43, #34, #13, #14, #32, #42, #84
- Empty subclause #25
- Style #77, #18, #72, #1, #61, #62, #64, #63, #16
- Missing PICS fields #37, #38, #39
- Grammar #31
- Numbering #46
- Bit ordering #5, #6
- Frontmatter #54, #51, #55

Late comments highlighted in red.

# Revision request 1271

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- Move cabling specifications to cabling documents.
- Related to P802.3/D2.0 comment #59.
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / ~~No~~

# Motion

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- Move to
  - Approve proposed responses to remaining “bucket-worthy” comments as indicated in healey\_1\_0115
  - Generate Draft 2.1 for WG recirculation from Draft 2.0 and closed comments
- M: P. Anslow                      S: D. Law
- Technical ( $\geq 75\%$ )
- Motion passes by voice without opposition

# Proposed revision schedule

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<b>11/10/2014</b>	WB opens	<b>4/2/2015</b>	Maintenance TF meeting (if needed)
<b>12/10/2014</b>	WB closes	<b>4/8/2015</b>	SB opens
<b>12/23/2014</b>	Ad hoc teleconference #1	<b>5/8/2015</b>	SB closes
<b>1/8/2015</b>	Ad hoc teleconference #2	<b>5/20/2015</b>	Maintenance TF meeting
<b>1/14/2015</b>	Maintenance TF meeting	<b>6/1/2015</b>	SB-r1 opens
<b>1/30/2015</b>	RevCom recommends P802.3bm approval?	<b>6/16/2015</b>	SB-r1 closes
<b>2/9/2015</b>	WB-r1 opens	<b>6/18/2015</b>	Maintenance TF meeting (if needed)
<b>2/24/2015</b>	WB-r1 closes	<b>6/23/2015</b>	SB-r2 opens
<b>3/11/2015</b>	Maintenance TF meeting	<b>7/8/2015</b>	SB-r2 closes
<b>3/13/2015</b>	Conditional SB approval	<b>7/17/2015</b>	RevCom submittal
<b>3/16/2015</b>	WB-r2 opens	<b>8/28/2015</b>	P802.3 approved!?!)
<b>3/31/2015</b>	WB-r2 closes		

# Implications of proposal schedule

Year	2014		2015												2016												2017				
Month	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
P802.3bm				Std																											
P802.3bn					WG								SB																		
P802.3bp					WG								SB																		
P802.3bq					WG								SB																		
P802.3br					WG								SB																		
P802.3bs													WG																		Std
P802.3bt													WG																		Std
P802.3bu													WG																		Std
P802.3bw	WG												SB																		Std
P802.3bx	WG																														

- Contain impact to P802.3bw to one “cycle”
- Requires parallel Sponsor ballots for Revision and first amendment to the Revision

# Future meetings

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- Week of 9<sup>th</sup> March 2015
  - Berlin, Germany



# Adjourn

# Maintenance web and reflector

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- IEEE 802.3 Maintenance web site
  - <http://www.ieee802.org/3/maint/>
- IEEE 802.3 Maintenance Request form
  - [http://www.ieee802.org/3/private/maint/revision\\_request.html](http://www.ieee802.org/3/private/maint/revision_request.html)
  - Username: XXXXX
  - Password: XXXXXXXX
- IEEE 802.3 Maintenance reflector
  - [stds-802-3-maint@ieee.org](mailto:stds-802-3-maint@ieee.org)

# Revision project web and reflector

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- IEEE P802.3 (IEEE 802.3bx) Task Force web site
  - <http://www.ieee802.org/3/bx/>
- IEEE P802.3 (IEEE 802.3bx) Task Force private area
  - <http://ieee802.org/3/private/maint/bxballot/index.html>
  - Username: XXXX
  - Password: XXXXXXXX
- Reflector is the IEEE 802.3 Maintenance reflector
  - [stds-802-3-maint@ieee.org](mailto:stds-802-3-maint@ieee.org)