

# IEEE 802.3 Maintenance Task Force

## 21<sup>st</sup> May 2015

### Pittsburgh, PA 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 ballot results
- IEEE P802.3/D3.0 comment resolution
- Review revision plan
- Review new revision requests
- Future meetings

# IEEE P802.3 (Revision) 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 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, 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**
  - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of 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: M. Hajduczenia                      S: B. Grow
  - Passes by voice vote without opposition
  
- Motion #2: Approve the March 2015 minutes
  - M: B. Grow                                      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

#	Mar-15	May-15	Target project	Update
<a href="#">1238</a>	<a href="#">V</a>	V	Revision	
<a href="#">1239</a>	<a href="#">V</a>	V	Revision	
<a href="#">1242</a>	<a href="#">A</a>	P	P802.3bm	IEEE Std 802.3bm-2015 published!
<a href="#">1243</a>	<a href="#">V</a>	V	Revision	
<a href="#">1244</a>	<a href="#">A</a>	P	P802.3bm	IEEE Std 802.3bm-2015 published!
<a href="#">1246</a>	<a href="#">A</a>	P	P802.3bm	IEEE Std 802.3bm-2015 published!
<a href="#">1247</a>	<a href="#">V</a>	V	Revision	
<a href="#">1249</a>	<a href="#">V</a>	V	Revision	
<a href="#">1250</a>	<a href="#">V</a>	V	Revision	
<a href="#">1251</a>	<a href="#">V</a>	V	Revision	
<a href="#">1252</a>	<a href="#">A</a>	P	P802.3bm	IEEE Std 802.3bm-2015 published!

# Revision request ballot status cont'd

#	Mar-15	May-15	Target project	Update
<a href="#">1253</a>	<u>V</u>	V	Revision	
<a href="#">1254</a>	<u>V</u>	V	Revision	
<a href="#">1255</a>	<u>V</u>	V	Revision	
<a href="#">1256</a>	<u>V</u>	V	Revision	
<a href="#">1257</a>	<u>V</u>	V	Revision	
<a href="#">1258</a>	<u>V</u>	V	Revision	
<a href="#">1259</a>	<u>V</u>	V	Revision	
<a href="#">1260</a>	<u>V</u>	V	Revision	
<a href="#">1262</a>	<u>V</u>	V	Revision	
<a href="#">1265</a>	<u>V</u>	V	Revision	
<a href="#">1266</a>	<u>R</u>	V	P802.3bq	Initial Working Group ballot comment #103
<a href="#">1267</a>	<u>V</u>	V	Revision	Initial Working Group ballot comment #37

# Revision request ballot status cont'd

#	Mar-15	May-15	Target project	Update
<a href="#">1268</a>	<u>V</u>	V	Revision	Initial Working Group ballot comment #38
<a href="#">1269</a>	<u>V</u>	V	Revision	Initial Working Group ballot comment #39
<a href="#">1270</a>	<u>V</u>	V	Revision	Initial Working Group ballot comment #47
<a href="#">1271</a>	<u>B</u>	B	P802.3bt	
<a href="#">1272</a>	<u>J</u>			Rejected
<a href="#">1273</a>	<u>B</u>	B	P802.3bt	
<a href="#">1274</a>	<u>B</u>	B	P802.3bt	
<a href="#">1275</a>	<u>W</u>			Withdrawn by submitter
<a href="#">1276</a>	<u>R</u>	R		

# New revision requests

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- 2 new revision requests since March 2015 plenary
  - 2 received by deadline for consideration (16 April 2015)

1276	20-Feb-15	802.3-2012	Frontmatter	Define “PoE”
1277	25-Mar-15	802.3-2012	33	Load during inrush
1278	19-May-15	802.3-2012	1.4, 33.1.4	Incorrect placement of definitions

# Revision request status summary

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- 28 open maintenance requests
  - Approved 0
  - Balloting 22
  - Ready for ballot 3
  - Awaiting clarification 0
  - Errata 0
  - To be categorised 3

# Ballot results

- IEEE P802.3/D3.0 initial Sponsor ballot
  - Opened 25 March 2015
  - Closed 24 April 2015
  - 5 comments received after ballot closed

Comments received: 109

	Count	%		Status
		Actual	Required	
Abstain	11	8.21	< 30	PASS
Disapprove with comment	6	-	-	-
Disapprove without comment	0	-	-	-
Approve	117	95.12	≥ 75	PASS
Ballots returned	134	83.75	≥ 75	PASS
Voters	160	-	-	-



# IEEE P802.3/D3.0 comment resolution

# Comment summary (27)

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- CID 97, 98, 99
- Gigabit vs Gb/s 85
- MII 89
- CSMA/CD vs Ethernet 31
- “BASE-R FEC” 24
- 30: behaviour vs behavior 87
- 31B: pause\_quantum units 17
- 45: various 48, 32, 35, 7, 8, 50, 51, 45, 56, 103, 105
- 49: primitive names 22, 26
- 49: PRBS9 definition 21
- 55: EEE 104
- 55: missing timer definition 86
- 69: introduction 39, 40

# Comment summary continued (17)

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- 72: EEE primitives 25
- 73: link\_control 60, 61, 66
- 73: parallel detect 63, 36
- 73: readability 42
- 73: arbitration 65
- 73: management 67
- 74: objectives 37
- 76: SH\_DATA/CTRL 1
- 77: cross-reference 3, 88
- 82: state does not exist 81
- 83: Local loopback footnote 71
- 83: Readability 72
- 83: Cumulative PMA delay 70

# Comment summary continued (13)

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- 83E: stressed/clean signal 92, 93
- 83E: jitter PRBS data rate 94
- 83E: transition time in PICS 83
- 85: preset definition 9
- 91: state diagram variables 10, 11
- 92: test fixture names 74
- 93A: Refer to Clause 92 27
- 94: Jitter filter 109
- 95: SRS test description 91, 96, 90

Late comments highlighted in red.

# “Bucket-worthy” (52)

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- IEEE Std 802.3bm-2015 55
- Hyphens, underscores 54, 75, 28, 69, 108
- Spelling, grammar, typos 43, 52, 2, 34, 29, 44, 20, 30, 68, 64, 12, 13, 16, 95, 106
- Cross-references 33, 101, 102, 84, 23, 4, 82, 110
- Style 57, 58, 5, 38, 62, 41, 80, 6
- Units 76, 79, 77, 78
- Bit rate vs bit time 19
- Bookmarks 18
- MEC 100
- Miscellanea 49, 59, 14, 15, 53, 47, 46, 107

Late comments highlighted in red.


# Motion

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- Move to
  - Approve proposed responses to remaining “bucket-worthy” comments as indicated in healey\_1\_0515
  - Generate Draft 3.1 for SB recirculation from Draft 3.0 and closed comments
- M: S. Carlson      S: V. Maguire
- Technical ( $\geq 75\%$ )
- Motion passes by voice without opposition

# Updated revision schedule

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<b>11/8/2014</b>	WB opens	<b>5/21/2015</b>	Maintenance TF meeting
<b>12/11/2014</b>	WB closes	<b>6/18/2015</b>	SB-r1 opens
<b>12/23/2014</b>	Ad hoc teleconference #1	<b>7/3/2015</b>	SB-r1 closes
<b>1/8/2015</b>	Ad hoc teleconference #2	<b>7/15/2015</b>	Maintenance TF meeting
<b>1/14/2015</b>	Maintenance TF meeting	<b>7/17/2015</b>	(Conditional?) approval for RevCom submittal
<b>2/7/2015</b>	WB-r1 opens	<b>7/20/2015</b>	SB-r2 opens (if needed)
<b>2/21/2015</b>	WB-r1 closes	<b>7/24/2015</b>	RevCom submittal deadline
<b>3/9/2015</b>	Maintenance TF meeting	<b>8/4/2015</b>	SB-r2 closes
<b>3/13/2015</b>	SB approval	<b>8/6/2015</b>	Maintenance TF meeting (if needed)
<b>3/25/2015</b>	SB opens	<b>9/3/2015</b>	P802.3 approved!?!)
<b>4/24/2015</b>	SB closes		

# Revision request 1276

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- Add definition of “PoE” to IEEE Std 802.3
- The term “PoE” may be expanded in the frontmatter (introduction), added as a definition (1.4), or included in Clause 33
- Further consideration is needed to determine the best location.
- Status to remain “Received”



# Revision request 1277

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- Add text to clarify that PDs should not turn on their DC-DC load during inrush
- Further consideration is necessary to determine whether or not this request adds a new requirement
- Status to remain “Received”

# Future meetings

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- Week of 13<sup>th</sup> July 2015
  - Waikaloa, HI USA

# 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)