

# IEEE 802.3 Maintenance Task Force

## 24<sup>th</sup> May 2017

### New Orleans, LA USA

Adam Healey  
Chair, IEEE 802.3 Maintenance TF  
Vice-Chair, IEEE 802.3 Working Group

# 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 requests
- IEEE P802.3-2015/Cor 1 progress report
- Response to China NB comments
- Draft to ISO/IEC JTC 1/SC 6 for preview
- Additions to the IANA MAU MIB progress report
- Revision plan
- Future meetings



# 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.



15 March 2015

(Optional to be shown)

# 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.



# Participation in IEEE 802 Meetings

**All participation in IEEE 802 Working Group meetings 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

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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

# Revision request ballot status

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

Project	Revision Requests
P802.3bt	<p><a href="#">1271</a> – IEEE P802.3bt/D0.4 comment #139 <a href="#">1273</a> – IEEE P802.3bt/D0.4 comment #141 <a href="#">1276</a> – IEEE P802.3bt/D2.0 comment #5 <a href="#">1277</a> – IEEE P802.3bt/D1.3 comment #21 <a href="#">1278</a> – IEEE P802.3bt/D2.0 comment #6 <a href="#">1294</a> – IEEE P802.3bt/D1.7 comment #147 <a href="#">1300</a> – IEEE P802.3bt/D2.2 comment #455</p> <p><b>All removed from IEEE P802.3bt/D2.3 (following adoption of January 2017 interim meeting motion #4). Marked “Ready for ballot”.</b></p>
P802.3cd	<p><a href="#">1283</a> – IEEE P802.3cd/D1.0 comment #31</p>

# New revision requests

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- 5 new revision requests were received since the March 2017 meeting

#	Date	Standard	Clause	Subject
<a href="#">1305</a>	05-Apr-17	802.3bp-2016	97.9.1	General safety requirements
<a href="#">1306</a>	21-May-17	802.3-2015	33	Clarify source of pd_dll_power_type
<a href="#">1307</a>	21-May-17	802.3-2015	33	Clarify source of pse_dll_power_type
<a href="#">1308</a>	21-May-17	802.3bu-2016	104.4.4.1	PSE output capacitance limit
<a href="#">1309</a>	23-May-17	802.3-2015	33	Link section definition

# Revision request status summary

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- 32 open maintenance requests
- Current status of open requests
  - Approved 0
  - Balloting 0
  - Ready for ballot 26
  - Awaiting clarification 0
  - Errata 0
  - To be categorized 6

# Maintenance requests for consideration

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- Deadline for consideration at this meeting was 19 April 2017

#	Date	Standard	Clause	Subject
<a href="#">1298</a>	09-Sep-16	802.3-2015	78	Sort order
<a href="#">1301</a>	28-Oct-16	802.3-2015	90	Timestamp reference point for 100BASE-T
<a href="#">1305</a>	05-Apr-17	802.3bp-2016	97.9.1	General safety requirements

# Revision request 1298

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- Intended sort order for the PHYs/interfaces in Table 78-1, 78-2, and 78-4 is not clear
- No specific sort order is proposed
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: ~~Yes~~ / **No**
- Request revision request be re-submitted with specific revision text (suggest that Table 78-4 be sorted with the same order used in Tables 78-1 and 78-2).
- Recommend that status remain “Received” pending the updated request.

# Revision request 1301

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- Referral of IEEE 1588-2008 interpretation request #26 to IEEE 802.3
- Request to clarify (in Clause 90) the timestamp reference point for 100BASE-T but no specific text is provided.
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: ~~Yes~~ / No
- Update: Submitter proposed specific revision text. The proposed text is under discussion.



# Revision request 1305

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- Aligns text with similar content in 96.9.1 and Clause 97 PICS items ES1 and ES1a
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / No
- Change status to “Ready for ballot” and target revision

# IEEE P802.3-2015/Cor 1 Multilane Timestamping Corrigendum

[Progress report]

# Final schedule

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<b>8/8/2016</b>	WB day 1	<b>1/17/2017</b>	SB-r1 day 1
<b>9/6/2016</b>	WB closes	<b>1/31/2017</b>	SB-r1 closes
<b>9/15/2016</b>	Maintenance TF meeting	<b>2/10/2017</b>	RevCom submittal deadline
<b>9/23/2016</b>	WB-r1 day 1	<b>3/14/2017</b>	Maintenance TF meeting
<b>10/7/2016</b>	WB-r1 closes	<b>3/17/2017</b>	Approval for RevCom submittal
<b>11/9/2016</b>	Maintenance TF meeting	<b>3/23/2017</b>	SASB meeting
<b>11/11/2016</b>	SB approval		
<b>12/6/2016</b>	SB day 1		
<b>1/4/2017</b>	SB closes		
<b>1/11/2017</b>	Maintenance TF meeting		

**Approved: 3/23/2017**  
**Published: 4/21/2017**

**Project complete!**

# Response to China NB comments

[Review comments and draft liaison letter]

# Drafts to ISO/IEC for review

[Review draft liaison letter]

# Liaison motion

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- Motion #4: Approve  
IEEE\_802d3\_to\_ISOIEC\_JTC1\_SC6\_0517\_1\_draft.pdf  
and  
IEEE\_802d3\_to\_ISOIEC\_JTC1\_SC6\_0517\_2\_draft.pdf  
with editorial license granted to the Chair (or his  
appointed agent) as liaison communications from the  
IEEE 802.3 Working Group to ISO/IEC JTC 1/SC 6.
  - M: M. Hajduczenia                      S: G. Thompson
  - Technical  $\geq 75\%$
  - Passes by voice vote without opposition

# Request to IANA for additions to the IANA MAU MIB

[Progress report]

# Activities since March 2017 meeting

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- [Request](#) submitted 22 March 2017
- Request approved 6 April 2017
- Registration completed 10 April 2017
- See <https://www.iana.org/assignments/ianamau-mib>



# Revision

[Progress report and motion]

# Progress report

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- IEEE P802.3 (IEEE 802.3cj) PAR approved 18<sup>th</sup> May
- Web area created
  - <http://www.ieee802.org/3/cj/index.html>
- Revision draft (D1.0) created
  - <http://www.ieee802.org/3/private/maint/cjballot/index.html>
  - IEEE Std 802.3-2015 as modified by approved amendments IEEE Std 802.3bw- 2015, IEEE Std 802.3by-2016, IEEE Std 802.3bq-2016, IEEE Std 802.3bp-2016, IEEE Std 802.3br-2016, IEEE Std 802.3bn-2016, IEEE Std 802.3bz-2016, IEEE Std 802.3bu-2016, IEEE Std 802.3bv-2017, and IEEE Std 802.3-2015/Cor 1-2017
  - “[Release notes](#)” posted
  - Thanks to Pete Anslow for his assistance in preparing the draft

# Schedule

Year	2017												2018						
Month	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7
P802.3bs	SB								Std!										
P802.3bt							SB		r1		r2		r3		Std				
P802.3ca													WG						
P802.3cb					SB		r1		r2		r3	Std							
P802.3cc			SB		r1		r2		Std!										
P802.3cd					WG		r1		r2		r3		SB		r1		r2		Std!
P802.3cg									Schedule TBD										
P802.3ch									Schedule TBD										
Revision							WG		r1		SB		r1		r2		Std		

Incorporate IEEE Std 802.3bs-201x, IEEE Std 802.3cc-201x, IEEE Std 802.3cb-201x



# MRs proposed for inclusion (19)

#	Standard	Clause	Date	Subject
<a href="#">1279</a>	802.3-2012	35.2.1.1.2	16-Jun-15	TRANSMIT_COMPLETE vs. DATA_COMPLETE
<a href="#">1280</a>	802.3-2012	57	15-Jul-15	Hard-coded pdu_limit
<a href="#">1282</a>	802.3-2012	76.3.2.5.6	22-Jul-15	IdleBlockCount type
<a href="#">1284</a>	802.3-2015	83	03-Sep-15	Incorrect register names
<a href="#">1285</a>	802.3-2015	1.4	09-Sep-15	Incorrect/missing cable definitions
<a href="#">1287</a>	802.3-2015	75.1.4	09-Oct-15	EPON extended power budget identification
<a href="#">1288</a>	802.3-2015	86.10 and 95.10	05-Nov-15	Equate fibre optic channel with link segment
<a href="#">1289</a>	802.3-2015	30.3.2.1.2	05-Nov-15	Management enumeration of PHY types
<a href="#">1290</a>	802.3-2015	25.4.10	19-Nov-15	Clarify definition of STP
<a href="#">1291</a>	802.3-2015	82	20-Nov-15	Indicate FlexE uses O code 0x5
<a href="#">1293</a>	802.3-2015	55.1.3.1	26-Jan-16	Incorrect DSQ128 mapping description
<a href="#">1295</a>	802.3-2015	93A.2	21-Mar-16	Incorrect notation in Equation 93A-50
<a href="#">1296</a>	802.3-2015	1.3	09-Sep-16	Sort order
<a href="#">1297</a>	802.3-2015	1.4	09-Sep-16	Sort order
<a href="#">1299</a>	802.3-2015	91	27-Sep-16	FEC synchronization state diagram
<a href="#">1302</a>	802.3-2015	36	05-Nov-16	Cross-references to Table 36-1(a-e)
<a href="#">1303</a>	802.3-2015	Equation 126-38	06-Nov-16	Incorrect frequency range
<a href="#">1304</a>	802.3-2015	Figure 36-5	14-Nov-16	Transition to/from XMIT_DATA not fully qualified
<a href="#">1305</a>	802.3bp-2016	97.9.1	05-Apr-17	General safety requirements

# Revision draft motion

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- Motion #5: Charter the editor to submit a draft for WG preview consisting of Draft 1.0 as described on slide 27 of healey\_1\_0517.pdf and the maintenance requests listed on slide 29 of healey\_1\_0517.pdf.
  - M: R. Grow            S: N. Wienckowski
  - Technical  $\geq 75\%$
  - Passes by voice vote without opposition

# Future meetings

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- Week of 10 July 2017
  - 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)