

IEEE 802.3 Maintenance Task Force

11th January 2017

Huntington Beach, CA USA

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

Agenda

- 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 initial Sponsor ballot
- Drafts to ISO/IEC for review
- Standards to ISO/IEC for approval
- Request to IANA for additions to the IANA MAU MIB
- Discuss revision plan
- Future meetings

Agenda and Minutes Motions

- Motion #1: Approve the agenda
 - M: Thaler S: Winkel
 - Passes by voice vote without opposition
- Motion #2: Approve the November 2016 minutes
 - M: Grow S: Winkel
 - Passes by voice vote without opposition
- November 2016 minutes were posted 22 December 2016

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*](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*](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*](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 or visit [*http://standards.ieee.org/about/sasb/patcom/index.html*](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*](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.**

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 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”. ([http://ieee802.org/PNP/approved/IEEE 802 WG PandP v19.pdf](http://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf) section 4.2.1)*
- **You have an obligation to act and vote as an individual and not under the direction of any other individual or group. Your obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **You 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 section 5.2.1.3 and [http://ieee802.org/PNP/approved/IEEE 802 WG PandP v19.pdf](http://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf) section 3.4.1, 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.

Attendance

- IEEE Meeting Attendance Tool
 - <http://imat.ieee.org/>
 - Session access code: XXXXXX
- For more information, please see...
 - 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

Project	Revision Requests
P802.3bt	1271 – IEEE P802.3bt/D0.4 comment #139 1273 – IEEE P802.3bt/D0.4 comment #141 1276 – IEEE P802.3bt/D2.0 comment #5 1278 – IEEE P802.3bt/D2.0 comment #6 1294 – IEEE P802.3bt/D1.7 comment #147
P802.3cd	1283 – IEEE P802.3cd/D1.0 comment #31 1299 – IEEE P802.3cd/D1.0 comment #75

New revision requests

- 1 new revision requests were received since the November 2016 meeting

#	Date	Standard	Clause	Subject
1304	14-Nov-16	802.3-2015	Figure 36-5	Transition to/from XMIT_DATA not fully qualified

Revision request status summary

- 29 open maintenance requests
- Current status of open requests
 - Approved 0
 - Balloting 3
 - Ready for ballot 20
 - Awaiting clarification 0
 - Errata 0
 - To be categorised 6

Review revision requests

- Deadline for consideration at this meeting was 7th December 2016

#	Date	Standard	Clause	Subject
1298	09-Sep-16	802.3-2015	78	Sort order
1300	07-Oct-16	802.3-2015	33.3.7.9	Backfeed voltage
1301	28-Oct-16	802.3-2015	90	Timestamp reference point for 100BASE-T
1302	03-Nov-16	802.3-2015	36	Cross-reference(s) to Table 36-1(a-e)
1303	06-Nov-16	802.3bz-2016	Eq. 126-38	Incorrect frequency range
1304	14-Nov-16	802.3-2015	Figure 36-5	Transition to/from XMIT_DATA not fully qualified

Revision request 1298

- 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 1300

- Backfeed voltage was specified for $V_{\text{Port_PD}}$ max. but the intended that the requirement be met across the range of 0 V to $V_{\text{Port_PD}}$ max
- The request was resubmitted with corrections to the proposed revision text
- In scope: Yes / No
- Errata: Yes / ~~No~~
- Complete: Yes / No
- Change status to “Ready for ballot” and forward to the P802.3bt Task Force for consideration

Revision request 1301

- 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
- Request revision request be re-submitted with specific revision text.

Revision request 1302

- In Clause 36, the list of valid 8B/10B code-groups spans Table 36-1a to Table 36-1e
- However, statements in the standard related to the validity of code-groups only refer to Table 36-1a
- Such references should be expanded to “Table 36-1a-e”
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / ~~No~~
- Change status to “Ready for ballot” and target the next revision.

Revision request 1303

- Incorrect frequency range in Equation 126-38
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / ~~No~~
- Change status to “Ready for ballot” and target the next revision.

Revision request 1304

- Transition from XMIT_DATA to XMIT_DATA
 - TX_EN=FALSE*TX_OSET.indicate
- Transition from XMIT_DATA to XMIT_LPIDLE
 - assert_lpidle*TX_OSET.indicate which is equivalent to...
 - **TX_EN=FALSE*TX_ER=TRUE*(TXD<7:0>=0x01)*TX_OSET.indicate**
- Change the transition from XMIT_DATA to XMIT_DATA
 - TX_EN=FALSE*TX_OSET.indicate*!assert_lpidle
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / ~~No~~
- Change status to “Ready for ballot” and target the next revision.

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

[Ballot results and comment resolution]

Ballot results

- D2.0 initial Sponsor ballot
 - Opened 5 December 2016, closed 4 January 2017

	D2.0				D2.1			
	Count	%		Status	Count	%		Status
		Actual	Req'd			Actual	Req'd	
Abstain	2	2	< 30	PASS	TBD			
Disapprove	0	-	-	-				
Disapprove w/o comment	0	-	-	-				
Approve	81	100	≥ 75	PASS				
Ballots returned	83	81	≥ 75	PASS				
Voters	102	-	-	-				
Comments	1	-	-	-				

Comment resolution motion

- Motion #3: Approve the response to the comment received against IEEE P802.3-2015/Cor 1 D2.0 as recorded in
<http://www.ieee802.org/3/ce/comments/802d3ce_D2_0_comments_final.pdf>
 - M: Thompson S: Zimmerman
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition

Projected schedule

8/8/2016	WB day 1	1/19/2017	SB-r1 day 1
9/6/2016	WB closes	2/2/2017	SB-r1 closes
9/15/2016	Maintenance TF meeting	2/10/2017	RevCom submittal deadline
9/23/2016	WB-r1 day 1	3/15/2017	Maintenance TF meeting
10/7/2016	WB-r1 closes	3/17/2017	Approval for RevCom submittal
11/9/2016	Maintenance TF meeting	3/23/2017	SASB meeting
11/11/2016	SB approval		
12/6/2016	SB day 1		
1/4/2017	SB closes		
1/11/2017	Maintenance TF meeting		

Drafts to ISO/IEC for review

Drafts to ISO/IEC motion

- Motion #4: Approve
IEEE_802d3_to_ISOIEC_JTC1_SC6_0117_draft.pdf with
editorial license granted to the Chair (or his appointed
agent) as liaison communication from the IEEE 802.3
Working Group to ISO/IEC JTC 1/SC 6.
 - M: Grow S: Law
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition

Standards to ISO/IEC for approval

Standards to ISO/IEC motion

- Motion #5: Submit IEEE Std 802.3bn-2016 to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement.
 - M: Thaler S: Zimmerman
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition

Request to IANA for additions to the IANA MAU MIB

[Review proposed request]

Revision plan

[Status update and plan]

Future meetings

- Week of 13 March 2017
 - Vancouver, BC Canada

Adjourn

Maintenance web and reflector

- 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
 - Username: XXXXX
 - Password: XXXXXXXX
- IEEE 802.3 Maintenance reflector
 - stds-802-3-maint@ieee.org