

IEEE 802.3 Maintenance Task Force

14th March 2017

Vancouver, BC, Canada

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 to RevCom
- Response to China NB comments
- Request to IANA for additions to the IANA MAU MIB
- Revision PAR and plan
- Future meetings

Agenda and Minutes Motions

- Motion #1: Approve the agenda
 - M: ??? S: ???
 - Passes by voice vote without opposition???
- Motion #2: Approve the [January 2017 minutes](#)
 - M: ??? S: ???
 - Passes by voice vote without opposition???
- January 2017 minutes were posted 11 January 2017

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 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.**

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/>
- 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 1300 – IEEE P802.3bt/D2.2 comment #455 |

New revision requests

- No new revision requests were received since the January 2017 meeting

Revision request status summary

- 29 open maintenance requests
- Current status of open requests
 - Approved 0
 - Balloting 5
 - Ready for ballot 22
 - Awaiting clarification 0
 - Errata 0
 - To be categorized 2

Maintenance requests for consideration

- Deadline for consideration at this meeting was 6 February 2017

| # | Date | Standard | Clause | Subject |
|----------------------|-----------|------------|--------|---|
| 1298 | 09-Sep-16 | 802.3-2015 | 78 | Sort order |
| 1301 | 28-Oct-16 | 802.3-2015 | 90 | Timestamp reference point for 100BASE-T |

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).
- **Update: Still some discussion on the proper sort order.**
- Recommend that status remain “Received” pending the updated request.

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
- Update: Discussion with submitter is still pending.
- Request revision request be re-submitted with specific revision text.

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

[Ballot results and RevCom submittal]

IEEE P802.3-2015/Cor 1 ballot results

- D2.0 initial Sponsor ballot
 - Opened 5 December 2016, closed 4 January 2017
- D2.1 Sponsor recirculation ballot
 - Opened 16 January 2017, closed 31 January 2017

| | D2.0 | | | | D2.1 | | | |
|------------------------|-------|--------|-------|--------|-------|-------|------|--------|
| | Count | % | | Status | Count | | | Status |
| | | Actual | Req'd | | | | | |
| Abstain | 2 | 2.41 | < 30 | PASS | 3 | 3.57 | < 30 | PASS |
| Disapprove | 0 | - | - | - | 0 | 0 | - | - |
| Disapprove w/o comment | 0 | - | - | - | 0 | 0 | - | - |
| Approve | 81 | 100 | ≥ 75 | PASS | 81 | 100 | ≥ 75 | PASS |
| Ballots returned | 83 | 81.37 | > 50 | PASS | 84 | 82.35 | > 50 | PASS |
| Voters | 102 | - | - | - | 102 | - | - | - |
| Comments | 1 | - | - | - | 0 | - | - | - |

RevCom motion

- Motion #3: Submit IEEE P802.3-2015/Cor 1 to RevCom.
- M: ??? S: ???
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition???

Projected schedule

| | | | |
|-------------------|------------------------|------------------|-------------------------------|
| 8/8/2016 | WB day 1 | 1/17/2017 | SB-r1 day 1 |
| 9/6/2016 | WB closes | 1/31/2017 | SB-r1 closes |
| 9/15/2016 | Maintenance TF meeting | 2/10/2017 | RevCom submittal deadline |
| 9/23/2016 | WB-r1 day 1 | 3/14/2017 | 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 | | |

Response to China NB comments

[Review comments and draft liaison letter]

China NB comment response motion

- Motion #4: Approve
IEEE_802d3_to_ISOIEC_JTC1_SC6_0317_1_draft.pdf
and
IEEE_802d3_to_ISOIEC_JTC1_SC6_0317_2_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: ??? S: ???
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition???

Request to IANA for additions to the IANA MAU MIB

[Review and approve request]

Request to IANA motion

- Motion #5: Approve submission of the content of IANA_request_0117.pdf with editorial license granted to the Chair (or his appointed agent) as a request from the IEEE 802.3 Working Group to the Internet Assigned Numbers Authority (IANA).
 - M: ??? S: ???
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition???

Revision

[Draft PAR]

IEEE Std 802.3 Revision

IEEE-SA Standards Board Operations Manual

(Approved by the IEEE-SA Standards Board December 2016)

8.1.2 Amendments and corrigenda

Up to three amendments can be approved before the standard shall be revised, unless the base standard has been approved within the past three years. In such a case, multiple amendments may be added until the base standard is three years old. After the three-year period, RevCom shall defer consideration of additional amendments or corrigenda until a revision or a two-year extension request is approved by the IEEE-SA Standards Board.

- **IEEE Std 802.3-2015 was approved 9th September 2015**
- **IEEE Std 802.3bv-2017 was the ninth amendment!**

Possible revision plan

| Year | 2017 | | | | | | | | | | | | 2018 | | | | | | | | | | | | | |
|-------------|------|------|------|---|----|---|----|-------|-------|-------|-------|------|------|---|---|---|---|---|---|---|---|----|----|----|--|--|
| Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| P802.3bs | SB | | | | | | | | Std! | | | | | | | | | | | | | | | | | |
| P802.3bt | WG | | | | | | SB | | | | | | | | | | | | | | | | | | | |
| P802.3bv | | Std! | | | | | | | | | | | | | | | | | | | | | | | | |
| P802.3ca | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P802.3cb | WG | | SB | | | | | | Std! | | | | | | | | | | | | | | | | | |
| P802.3cc | WG | | SB | | SB | | | | | | Std! | | | | | | | | | | | | | | | |
| P802.3cd | | | | | WG | | | | | | | | | | | | | | | | | | | | | |
| Cor 1 | SB | | Std! | | | | | | | | | | | | | | | | | | | | | | | |
| Revision-O1 | | | | | | | WG | WG-r1 | SB | SB-r1 | Std! | | | | | | | | | | | | | | | |
| Revision-O2 | | | | | | | | WG | WG-r1 | SB | SB-r1 | Std! | | | | | | | | | | | | | | |

- Projects schedules are estimated – sometimes crudely
- Initiate “Task Force” review in May and WG ballot in July
 - Includes 9 amendments, corrigendum, and accumulated maintenance changes
- Incorporate P802.3bs, P802.3cc, and possibly P802.3cb prior to initial Sponsor ballot
- P802.3bt, P802.3cd become amendments to “IEEE Std 802.3-2018”
 - Earliest RevCom submission coincides with submission of revision
 - Preferably staggered by one “cycle”

Proposed IEEE 802.3 Revision PAR

- The PAR form is completed on-line in thought the myProject system. Many of the PAR question are proforma and are automatically completed by selecting a IEEE 802.3 revision project. These items include sponsor and the Working Group officers.
- These slides therefore provides the major items from the PAR form to assist in consensus building leading up to approving a completed draft PAR form.

PAR item 2.1 – Project title

Project title: **Standard for Ethernet**

PAR items 4.2 and 4.3 – Project dates

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: **11/2017**

4.3 Projected Completion Date for Submittal to RevCom: **05/2018**

PAR item 5.2 – Scope

5.2 Scope: This standard defines Ethernet local area, access and metropolitan area networks. Ethernet is specified at selected speeds of operation; and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected Physical Layer entities (PHY). The Physical Layer encodes frames for transmission and decodes received frames with the modulation specified for the speed of operation, transmission medium and supported link length. Other specified capabilities include: control and management protocols, and the provision of power over selected twisted pair PHY types.

PAR item 5.3 – Project contingency

5.3 Is the completion of this standard dependent upon the completion of another standard: **No**

PAR item 5.5 – Need for the Project

5.5 Need for the Project: IEEE Std 802.3-2015 will need to have a revision initiated by 2018 to allow consideration of future amendments per standards board policies. This revision will include the merge of approved amendments, corrigenda, and accumulated maintenance changes. Because there are multiple amendments in the "pipeline", it will be desirable to complete this revision by 2018 to provide a solid base for sponsor balloting of approved amendment projects that will follow the revision. These schedule considerations require timely completion of the revision. As a result, new capabilities or functional enhancements may have to be deferred to future projects to avoid delaying approved and proposed new projects.

PAR item 5.6 – Stakeholders

5.6 Stakeholders for the Standard: Ethernet is pervasive, with a consequent pervasive set of stakeholders. This includes component providers (e.g., optical transceivers, cabling and integrated circuit), system product providers (e.g., switch and NIC), network providers (e.g. installers, network support), bandwidth providers (e.g., carriers), software providers (e.g., network management), providers of network powered or powering devices, and the users of any of these products or services.

PAR item 5.4 – Purpose

5.4 Purpose: **This document will not include a purpose clause**

Revision PAR motion

- Motion #6: Approve the IEEE P802.3 Revision PAR “P802_3_PAR_Draft_1_0317”
 - M: ??? S: ???
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition???

Future meetings

- Week of 22 May 2017
 - New Orleans, LA, USA

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