

IEEE 802.3 Maintenance Task Force

16th July 2014

San Diego, CA

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

Agenda

- Introduction
- Review patent slides
- Review and approve agenda
- Approve minutes
- Review status of open revision requests
- Consider new revision requests (1259, 1260, 1261)
- IEEE 802.3 revision plan
- Submission of drafts to ISO/IEC JTC1 SC6 under PSDO agreement
- Liaison letter from ITU-T SG15
- 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 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 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.

Agenda and Minutes Motions

- Motion #1: Approve the agenda
 - M: M. Hajduczenia S: A. Marris
 - Passes by voice vote without opposition

- Motion #2: Approve the May 2014 minutes
 - M: M. Hajduczenia S: D. Law
 - Passes by voice vote without opposition

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

#	May-14	Jul-14	Target project	Update
1238	B	B	Revision	
1239	B	B	Revision	
1242	B	V	P802.3bm	Initial LMSC Sponsor Ballot comment i-21
1243	B	B	Revision	
1244	B	V	P802.3bm	Initial LMSC Sponsor Ballot comment i-22
1246	B	V	P802.3bm	Initial LMSC Sponsor Ballot comment i-23
1247	B	B	Revision	
1248	V	A	P802.3bj	IEEE Std 802.3bj-2014 approved 12 th June 2014
1249	B	B	Revision	
1250	B	B	Revision	
1251	B	B	Revision	
1252	V	V	P802.3bm	Initial Working Group Ballot comment #31

Revision request ballot status cont'd

#	May-14	Jul-14	Target project	Update
1253	B	B	Revision	
1254	B	B	Revision	
1255	B	B	Revision	
1256	B	B	Revision	
1257	B	B	Revision	
1258	B	B	Revision	

New revision requests

- Deadline for consideration at this meeting was 9th June 2014
- Propose to make an exception for 1261 as it may be an editorial issue that can be corrected during preparation for publication

1259	28-May-14	802.3-2012	76.3.3.6	Incorrect cross reference
1260	28-May-14	802.3-2012	76.3.2.2	Incorrect cross reference
1261	13-Jun-14	802.3bj-2014	Figure 82-17	Vestigial state transition
1262	01-Jul-14	802.3-2012	1.3	Normative references grammar
1263	02-Jul-14	802.3-2012	49	Encoding small inter-packet gaps

Revision request status summary

- 23 open revision requests
- Current status of open requests
 - Approved 0 * (1) **
 - Ready for ballot 16 (13)
 - Balloting 2 (4)
 - To be categorized 5 (5)

* As shown on the maintenance web site

** Reflects pending updates

Revision request 1259

- In 76.3.3.6, incorrect cross-reference to Figure 49-15 (it should be Figure 49-17)
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / ~~No~~
- Propose change status to “Ready for Ballot” and target the next revision

Revision request 1260

- In 76.3.2.2, incorrect cross-reference to Figure 49-14 (it should be Figure 49-16)
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / ~~No~~
- Propose change status to “Ready for Ballot” and target the next revision

Revision request 1261

- There is a vestigial transition arrow labelled "B" into the "RX_LINK_FAIL" state
 - State where "B" originated was removed from an earlier draft
 - It is clear that it should not be changed to "A" since that would create an infinite loop.
- In scope: Yes / ~~No~~
- Errata: ~~Yes~~ / No
- Complete: Yes / ~~No~~
- Can this be included during preparation for publication?

Another error in IEEE Std 802.3bj-2014

- In Table 45-15a, the first body row, first column, contains “1.20.15:12”
- Since this table concerns register 1.16, this should be “1.16.15:12”
- No revision request submitted (yet)
- Can this be included during preparation for publication?

IEEE 802.3 revision plan proposal

IEEE Std 802.3 Revision

IEEE-SA Standards Board Operations Manual

(Approved by the IEEE-SA Standards Board December 2013)

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 802.3-2012 was approved 30th August 2012**
- **IEEE P802.3bm will be the third amendment**

Considerations for the revision plan

- Collated [estimated] schedules for current and possible projects
- After P802.3bm, no amendment(s) expected to begin Sponsor ballot until later in 2015
- There is a [tight] window to do an amendment project with a [hopefully] small disruption to expected project schedules

Proposed IEEE 802.3 Revision Plan

Initial WG ballot
 IEEE Std 802.3-2012 + ...
 IEEE Std 802.3bk-2013 + ...
 IEEE Std 802.3bj-2014 + ...
 Revision requests "Ready for ballot"
 IEEE P802.3bm

WG approve PAR
 EC approve PAR

WG-r1

Conditional approval
 WG-r2

No Sponsor ballots for amendments

Initial Sponsor ballot
 IEEE Std 802.3-2012 + ...
 IEEE Std 802.3bk-2013 + ...
 IEEE Std 802.3bj-2014 + ...
 IEEE Std 802.3bm-2014 + ...
 Revision requests "Ready for ballot"

IEEE P802.3bm SB-r2

[Conditional] approval
 IEEE P802.3bm SB-r3

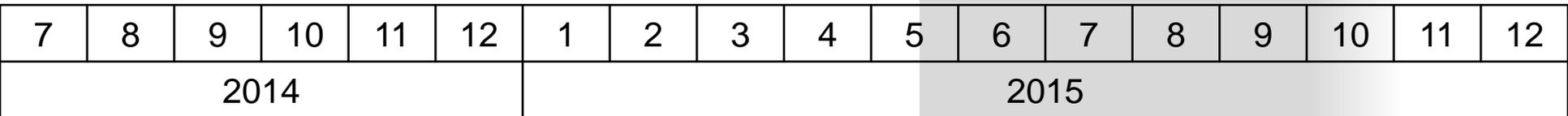
IEEE P802.3bm SB-r4?

SASB approve PAR?

SASB approval

Conditional approval
 SB-r1

SASB approval



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: **05/2015**

4.3 Projected Completion Date for Submittal to RevCom: **10/2015**

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 5.4 – Purpose

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

PAR item 5.5 – Need for the Project

5.5 Need for the Project: IEEE Std 802.3-2012 will need to have a revision initiated by 2015 to allow consideration of future amendments per standards board policies. This Revision will include the merge of IEEE Std 802.3bk-2013, IEEE Std 802.3bj-2014 and accumulated maintenance changes. It is also expected to include IEEE Std 802.3bm-201x. Because there are multiple other amendments in the "pipeline", it will be desirable to complete this revision by 2015 to provide a solid base for sponsor balloting of other approved amendment projects. These schedule considerations require that new capabilities or functional enhancement will have to be deferred to a future amendment project to avoid delaying approved and current 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 and is not limited to: 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.**

Revision PAR Motion

- Motion #3: Approve the IEEE P802.3 Revision PAR “P802_3_PAR_Draft_1_0714”
 - M: M. Hajduczenia S: V. Maguire
 - Technical ($\geq 75\%$)
 - Y: 7, N: 0, A: 0
 - Motion PASSES

ISO/IEC JTC1 SC6

- [Process](#) adopted by IEEE 802 EC March 2013
- IEEE 802 to provide regular status reports to SC6
- IEEE 802 to liaise drafts that will later to submitted for adoption (in parallel with WG or Sponsor ballots)
- ISO/IEC/IEEE FDIS 8802-3 approved
- What's next?

ISO/IEC JTC1 SC6 cont'd

- It has been proposed that IEEE Std 802.3.1-2013 be submitted to ISO/IEC JTC1/SC6 for approval per the PSDO agreement
- Submission of approved amendments (or amendments in Sponsor ballot) obviated by revision project
 - Plan to submit revision draft for comment when Sponsor ballot initiated

ISO/IEC JTC1 SC6 Motion

- Motion #4: Submit IEEE Std 802.3.1-2013 to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement
 - M: H. Frazier S: M. Hajduczenia
 - Technical ($\geq 75\%$)
 - Y: 5, N: 0, A: 1
 - Motion PASSES

Liaison response motion

- Motion #5: Approve “healey_2_0714.pdf” as the basis for the response to the ITU-T SG15 Q14/15 liaison statement regarding “Generic Information Model for management of transport NE”.
 - M: H. Frazier S: G. Thompson
 - Technical ($\geq 75\%$)
 - Y: 5, N: 0, A: 1
 - Motion PASSES

Future meetings

- Week of 8th September 2014
 - Kanata, Ontario, Canada
 - Hosted by Ericsson

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