IEEE 802.3 Maintenance Task Force
24th January 2018
Geneva, Switzerland

Adam Healey
Chair, IEEE 802.3 Maintenance TF
Vice Chair, IEEE 802.3 Ethernet WG

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
- Drafts to ISO/IEC JTC 1/SC 6 for preview
- Standards to ISO/IEC JTC 1/SC 6 for ratification under PSDO
- Review revision plan and progress
- Comment resolution
- Future meetings

Agenda and minutes motions

- Motion #1: Approve the agenda
  - M: G. Thompson   S: S. Trowbridge
  - Passed by voice vote without opposition

- Motion #2: Approve the November 2017 minutes
  - M: P. Anslow   S: A. Marris
  - Passed by voice vote without opposition

- Minutes were posted 8 November 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:**
  - 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 IEEE is not aware. Additionally, neither 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.

IEEE

Participants have a duty to inform the IEEE

- **Participants <u>shall</u> 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**

- **Participants <u>should</u> inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims**

Early identification of holders of potential Essential Patent Claims is encouraged

02 January 2018

IEEE

Ways to inform IEEE

- **Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); 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**

- **Speak up now and respond to this 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, please respond at this time by providing relevant information to the WG Chair

IEEE

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 of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.

      - **Technical considerations remain the 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.**

    For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and
    ***Antitrust and Competition Policy: What You Need to Know* at**
    http://standards.ieee.org/develop/policies/antitrust.pdf

IEEE

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- *IEEE-SA Standards Board 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

◆IEEE

Participation in IEEE 802 Meetings

Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) 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". (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** 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 procedures

- 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

Maintenance request ballot status

- http://www.ieee802.org/3/maint/requests/open_num.html

New maintenance requests

- Deadline for consideration at this meeting was 20th December 2017

#	Date	Standard	Clause	Subject
1313	08-Jan-18	802.3-2015	79	Use of Power via MDI TLV

Maintenance request status

- 35 open maintenance requests
- Current status of open requests
  - Approved   0
  - Balloting   22
  - Ready for ballot   11
  - Awaiting clarification   0
  - Errata   0
  - To be categorized   2

Maintenance requests for consideration

- Two requests for consideration at this meeting

#	Date	Standard	Clause	Subject
1312	09-Oct-17	802.3-2015	33	Range of power value fields
1313	08-Jan-18	802.3-2015	79	Use of Power via MDI TLV

MR 1312

- Inconsistent ranges for *PowerValue* values in Clauses 33 and 79
  - 0 to 255 in Clause 33 vs. 1 to 255 in Clause 79
- P802.3bt is changing Clause 79 to allow a value of zero (to support dual-signature power negotiation)
- Enforce a range of 1 to 255 in Clause 33 for compatibility with legacy devices
- In scope: <u>Yes</u> / ~~No~~
- Errata: ~~Yes~~ / <u>No</u>
- Complete: <u>Yes</u> / ~~No~~
- Change status to "Ready for ballot" and forward to P802.3bt for consideration.

MR 1313

- Clarify that that Power via MDI TLV only sent by devices sourcing or receiving power

- IEEE P802.3bt is amending this paragraph

- In scope: <u>Yes</u> / ~~No~~

- Errata: ~~Yes~~ / <u>No</u>

- Complete: <u>Yes</u> / ~~No~~

- Change status to "Ready for ballot" and send to P802.3bt for consideration.

Drafts to ISO/IEC JTC 1/SC 6 for preview

[Review liaison letter]

Liaison motion

- Motion #3: Approve
  [IEEE_802d3_to_ISOIEC_JTC1_SC6_0118_draft.pdf](#) with
  editorial license granted to the Chair (or his appointed
  agent) as a liaison communication from the IEEE 802.3
  Working Group to ISO/IEC JTC 1/SC 6.
  - M: G. Thompson   S: P. Anslow
  - Technical >= 75%
  - Passes by voice vote without opposition

Standards to ISO/IEC motion

- Motion #3: Submit IEEE Std 802.3bs-2017 and IEEE Std 802.3cc-2017 to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement.
  - M: G. Thompson   S: P. Anslow
  - Technical >= 75%
  - Passes by voice vote without opposition

Revision plan and progress

Proposed revision plan

7/13/2017	WB approval		**2/13/2018**	SB-r1 opens
7/23/2017	WB day 1		**2/27/2018**	SB-r1 closes
8/21/2017	WB closes		**3/7/2018**	Maintenance TF meeting
9/13/2017	Maintenance TF meeting		**3/9/2018**	Cond. approval Revcom submittal
9/29/2017	WB-r1 day 1		**3/14/2018**	SB-r2 opens
10/13/2017	WB-r1 closes		**3/16/2018**	Revcom submittal deadline
11/8/2017	Maintenance TF meeting		**3/28/2018**	SB-r2 closes
11/10/2017	SB approval		**4/26/2018**	Revcom telecom
12/6/2017	Amendments approved			
11/22/2017	SB day 1			
12/22/2018	SB closes			
1/24/2018	Maintenance TF meeting			

IEEE P802.3 ballot results

- D3.0 initial Sponsor ballot
  - Opened 22 November 2017, closed 22 December 2017

	D3.0				D3.1			
	Count	%		Status	Count	%		Status
		Actual	Req'd			Actual	Req'd	
Abstain	9	7	< 30	PASS				
Disapprove	6	-	-	-				
Disapprove w/o comment	0	-	-	-				
Approve	105	94	≥ 75	PASS		TBA		
Ballots returned	120	81	≥ 75	PASS				
Voters	147	-	-	-				
Comments	121	-	-	-				

Comment resolution

Comment agenda (52)

- Incorporate 802.3bs and 802.3cc

  [112, 82], 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 78, 80

- "Reserved"

  113, [114, 115], grow_1_0118

- Definition of "lane"

  41

- Isolation/insulation

  89, 90, 91, 92, 94, 98, 100, 102, 103, 105, 107, 109

- IEC 60060 comes in parts

  85, 86, 87, 95, 101

- IEC 60950

  88, 99, 104, 106, 108, 110

- Isolation impulse test (Cl 33)

  97

- Cl 45

  [2, 4], 13, 42

- 2.5G and 5G support in Cl 46

  19, 119, 122

- 10GBASE-T optional loop timing

  17

- Signal ordered set (Cl 49)

  51

Comment agenda (3)

- Data delay with FEC (Cl 90)   52
- 100BASE-T1 FORCE mode (Cl 96)   36
- ATIS-0600424, ATIS-0600417 references   123, anslow_1_0118

Late comments marked in red.

"Bucket-worthy" comments (21)

- MEC   53
- Definition of em dash   77
- /LI/ missing from list of ordered sets (Cl 36) 47
- List of Technology-Dependent PHYs (Cl 73)   48, 49
- Timer values defined in two places (Cl 73)   50
- "Channels" vs. "signals"   120
- "Twinax" vs. "twinaxial"   58
- PICS   12, 27, 60
- Description of DC block placement   29, 30, 33, 45
- Illustration of return loss (Cl 85)   111
- Test fixture vs. test setup   34, 35
- Units in impulse definition   96, 93
- Return loss text   39

"Bucket-worthy" comments (49)

- Cl 33 editorial   31, 32
- Title of 40.6.1.3.1 and similar   14
- Loop timing not optional (Cl 113)   18
- Cl 45   1, 3, 5, 61, 62, 63, 64, 65
- 10GBASE-W support (Cl 46)   20
- Style   21, [22, 118], 54
- Abbreviations, re-wording   6, 10, [15, 16], 23, 24, 25, 26, 43, 44, 56, 121
- Cross-references   8, 9, 37, 38, 46, 57
- Typo(s), fonts, capitalization, precision   40, 55, 59, 79, 81, 83, 84, 116, 117, 124
- Document hierarchy and flow   11, 28
- Undated reference to IEEE Std 802   125, 126

Late comments marked in red.

Revision motion

- Motion #4:

- Adopt proposed responses to remaining comments labelled "bucket" in P8023-D3p0-Comments-Proposed-byID.pdf

- Generate Draft 3.1 for Sponsor ballot recirculation from D3.0 and closed comments
  - Technical >= 75%
  - M: D. Law   S: A. Marris
  - Passed by voice without opposition

Future meetings

- Week of 4 March 2018
  - Rosemont, IL USA

- Contingent interim teleconference meeting
  - After March plenary meeting
  - If held, meeting details to be provided at least 30 days in advance

Adjourn