IEEE 802.3 Maintenance Task Force
19th January 2016
Atlanta, GA

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

Agenda

- Introductions

- Review and approve agenda

- Approve minutes

- Call for patents

- Attendance procedures

- IEEE P802.3 status

- Review status of open revision requests

- Review revision requests

- Drafts to ISO/IEC JTC1 SC6 under PSDO

- Corrigenda project to implement MR1286

- Future meetings

Agenda and Minutes Motions

- Motion #1: Approve the agenda
  - M: P. Jones   S: P. Thaler
  - Passes by voice vote without opposition

- Motion #2: Approve the November 2015 minutes as amended
  - M: D. Law   S: G. Thompson
  - Passes by voice vote without opposition

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.

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(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**

15 March 2015

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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**

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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

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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.

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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

IEEE P802.3 status

- Proofs under review

- Goal is to publish in February 2016

- IEEE Std 802.3bw-2015 is expected to publish shortly thereafter

Revision request ballot status

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

Project	Revision Requests
P802.3bq	1266 – Initial Working Group ballot comment #103
P802.3bt	1271 – ??? 1273 – ??? 1274 – ??? 1278 – ???

New revision requests

#	Date	Standard	Clause	Subject
1290	19-Nov-15	802.3-2015	25.4.10	Clarify definition of STP
1291	20-Nov-15	802.3-2015	82	Indicate FlexE uses O code 0x5
1292	23-Nov-15	802.3-2015	45.2.1.74-77	Typo in RX signal power registers

Revision request status summary

- 41 open maintenance requests
- Current status of open requests
    - Approved   21
    - Balloting   1
    - Ready for ballot   9
    - Awaiting clarification 0
    - Errata   0
    - To be categorised   10

Review revision requests

- Deadline for consideration at this meeting was 15th December 2015

#	Date	Standard	Clause	Subject
1276	20-Feb-15	802.3-2012	1.4, 1.5, 33.1	Define "PoE"
1277	25-Mar-15	802.3-2012	33	Load during inrush
1283	26-Aug-15	802.3-2012	73.6.4	Backplane/twinax PHY advertisement
1285	09-Sep-15	802.3-2015	1.4	Incorrect/missing cable definitions
1287	09-Oct-15	802.3-2015	75.1.4	EPON extended power budget identification
1288	05-Nov-15	802.3-2015	86.10, 95.10	Equate fibre optic channel with link segment
1289	06-Nov-15	802.3-2015	30.3.2.1.2	Management enumeration of PHY types
1290	19-Nov-15	802.3-2015	25.4.10	Clarify definition of STP
1291	20-Nov-15	802.3-2015	82	Indicate FlexE uses O code 0x5
1292	23-Nov-15	802.3-2015	45.2.1.74-77	Typo in RX signal power registers

Revision request 1276

- Add definition of "PoE" to IEEE Std 802.3

- Revised maintenance request submitted 16 January 2016

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

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

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

- Change status to "Ready for Ballot" and target P802.3bt

Revision request 1277

- Add text to clarify that PDs should not turn on their DC-DC load during inrush

- There is on-going discussion with P802.3bt Task Force chair

Revision request 1283

- There is no obvious reason to prohibit simultaneous advertisement of backplane and copper cable PHYs

- Observations from November 2015 meeting
  - Not necessary to include 100GBASE-KP4 and 1000GBASE-CR10 in the listing of PHYs in the first paragraph as proposed
  - "at the same signaling rate" would be better than "at the same data rate".

- Discussion with submitter is pending

Revision request 1285

- Revised maintenance request submitted 15 November 2015

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

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

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

- Change status to "Ready for Ballot" and target next revision

Revision request 1287

- Add that 40 represents extended power budget to 75.1.4
- In scope: <u>Yes</u> / ~~No~~
- Errata: ~~Yes~~ / <u>No</u>
- Complete: <u>Yes</u> / ~~No~~
- Change status to "Ready for Ballot" and target next revision (or amendment project if clause is opened earlier)

Revision request 1288

- Relate "fiber optic cabling model (channel)" to "link segment" in 86.10 and 95.10

- Similar text already exists in other optical PMD clauses

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

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

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

- Change status to "Ready for Ballot" and target next revision

Revision request 1289

- Text defining the management enumeration of PHY types (the clause number) is obsolete

- The defined method of enumeration cannot be used when a clause defines multiple PHYs

- The text is unnecessary and should be deleted

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

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

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

- Change status to "Ready for Ballot" and target next revision

Revision request 1290

- Clarify the use of "STP" in 25.4.10
- In scope: <u>Yes</u> / ~~No~~
- Errata: ~~Yes~~ / <u>No</u>
- Complete: <u>Yes</u> / ~~No~~
- Change status to "Ready for Ballot" and target next revision

Revision request 1291

- FlexE intends to use 64B/66B O code 0x5
- Add footnote to Table 82-1 indicating such (similar to existing footnote "a" for Fibre Channel signal ordered sets)
- In scope: <u>Yes</u> / ~~No~~
- Errata: ~~Yes~~ / <u>No</u>
- Complete: <u>Yes</u> / ~~No~~
- Change status to "Ready for Ballot" and target next revision

Revision request 1292

- In 45.2.1.74 to 45.2.1.77, "MA_Training_Init_S" should be "PMA_Training_Init_S"

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

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

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

- Send to publication editor to include in IEEE Std 802.3-2015 as part of preparation for publication (it is an obvious typo)…

Drafts to ISO/IEC JTC1 SC6 under PSDO

[Draft liaison letter]

Liaison letter motion

- Motion #3: Approve IEEE_802d3_to_ISOIEC_JTC1_SC6_0116_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 JTC1 SC6.
    - M: M. Hajduczenia   S: A. Marris
    - Technical >= 75%
    - Y: 9, N: 0, A: 0
    - Motion Passes

Corrigenda project to implement MR1286

Future meetings

- Week of 13th March 2016
  - Macau

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: XXXXXXX

- IEEE 802.3 Maintenance reflector
  - stds-802-3-maint@ieee.org