IEEE 802.3 Maintenance Task Force
15th March 2016
Macao

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

- Attendance procedures

- IEEE P802.3 status

- Review status of open revision requests

- Review revision requests

- IEEE Std 802.3-2015 to ISO/IEC JTC1 SC6

- Corrigenda project to implement MR1286

- Future meetings

Agenda and Minutes Motions

- Motion #1: Approve the agenda
  - M: S. Carlson   S: D. Law
  - Passes by voice vote without opposition

- Motion #2: Approve the January 2016 minutes
  - M: S. Carlson   S: G. Thompson
  - Passes by voice vote without opposition

Guidelines for IEEE-SA 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.**

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

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.

This slide set is available at https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.ppt

March 2015
IEEE-SA Standards Board Patent Committee

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

- IEEE Std 802.3-2015 published 4th March 2016
- IEEE Std 802.3bw-2015 published 8th March 2016

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 – ??? 1276 – ??? 1278 – ???

New revision requests

#	Date	Standard	Clause	Subject
1293	26-Jan-16	802.3-2015	55.1.3.1	Incorrect DSQ128 mapping description
1294	27-Jan-16	802.3-2015	Figure 33-16	PD entry to IDLE state

Revision request status summary

- 21 open maintenance requests
- Current status of open requests
  - Approved   0
  - Balloting   1
  - Ready for ballot   16
  - Awaiting clarification   0
  - Errata   0
  - To be categorised   4

Review revision requests

- Deadline for consideration at this meeting was 8 February 2016

#	Date	Standard	Clause	Subject
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
1293	26-Jan-16	802.3-2015	55.1.3.1	Incorrect DSQ128 mapping description
1294	27-Jan-16	802.3-2015	Figure 33-16	PD entry to IDLE state

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".

- It has since been observed that the entire paragraph in question could be deleted

- The submitter is expected to submit an update to the revision request with new revision text

- Status to remain "Received" pending the update

Revision request 1293

- Description of DSQ128 mapping in introductory text (55.1.3.1) does not align with normative definition of the mapping (55.3.2.2.19)

- Similar issue in P802.3bq corrected (comment #i-38)

- 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 1294

- In Figure 33-16 there is an open-ended entry to IDLE state that includes "+ !power_received" term

- This means the PD will remain in IDLE state until the voltage is in the range of Vport_pd

- This is not the intended behavior and the term should be removed

- 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

IEEE Std 802.3-2015 to ISO/IEC JTC1 SC6

IEEE Std 802.3-2015 to ISO/IEC motion

- Motion #3: Submit IEEE Std 802.3-2015, as published, to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement
  - M: G. Thompson   S: S. Carlson
  - Technical >= 75%
  - Passes by voice vote without opposition

Corrigenda project to implement MR1286

Major PAR form questions

The PAR form is completed on-line in thought the myProject system. Many of the PAR question are proforma and are automatically complete by selecting a IEEE 802.3 amendment project. These items include sponsor and the Working Group officers.

This slideset therefore provides the nine 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 Amendment:

Corrigendum 1: Multilane timestamping

Help text: The title of the base standard is uneditable. Please enter the amendment title in the text box. The title should be sufficiently unambiguous, understandable by a NesCom member not from the society that submitted the PAR. All acronyms shall be spelled out in the title.

PAR item 4.2 and 4.3 Project dates

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

09/2016

Help text: Additional communication and input from other organizations or other IEEE Standards Sponsors should be encouraged through participation in the working group or the invitation pool prior to Sponsor Ballot.

4.3 Projected Completion Date for Submittal to RevCom:

02/2017

Help text: Enter the date the draft standard is planned to be submitted to RevCom for processing (not to exceed four years from the date of PAR submission). **It is suggested to allow at least six months after Initial Sponsor Ballot for the ballot process.** Cutoff dates for submitting draft standards to RevCom are generally in February, May, August, and October. Check the appropriate calendars for the specific dates as the draft matures. Use a best guess estimate for the PAR.

PAR item 5.2.a – Standard scope

5.2.a Scope of the complete standard:

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.

Help text: If this Amendment will change the scope statement of the complete document (base + Amendment), it can be edited and should be explained in the Additional Explanatory Notes field at the end of the PAR form. If this Amendment will not change the scope statement of the complete document the pre-populated text should be left as is.

PAR item 5.2.b – Scope of proposed changes

5.2.b Scope of the proposed changes:

Clarification of which lane of the media dependent interface (MDI) of a multilane Physical Layer entity (PHY) is used as the timestamping reference point.

Help text: State what the Amendment is changing or adding.

PAR item 5.3 – Project contingency

5.3 Is the completion of this standard contingent upon the completion of another standard (Yes or No)? If **yes**, please explain below:

No.

Help text: Your explanation should include how the standard is dependent upon the completion of another standard. Also, if applicable, why a PAR request is being submitted if the standard currently under development is not yet complete. The title and number of the standard which this project is contingent upon shall be included in the explanation.

PAR item 5.4 – Project purpose

5.4 Will the completed document (base + amendment) contain a purpose clause:

○ Yes   ◉ No

Note: IEEE Std 802.3 does not contain a Purpose Clause.

PAR item 5.5 – Project need

5.5 Need for the Project:

The lane of the MDI of a multilane PHY that should be used as the timestamping reference point needs to be specified. Otherwise, the entire inter-lane skew may need to be accounted for in the receive minimum and receive maximum path data delay register values, impacting the timing accuracy that can be supported.

Help text: The need for the project details the specific problem that the standard will resolve and the benefit that users will gain by the publication of the standard. The need statement should be brief, no longer than a few sentences.

PAR item 5.6 – Stakeholders

5.6 Stakeholders for the Standard:

The stakeholders are users and producers of systems and components for time-sensitive networking applications. These applications include telecommunications, wireless backhaul, industrial control, and SmartGrid.

Help text: The stakeholders (e.g., telecom, medical, environmental) for the standard consist of any parties that have an interest in or may be impacted by the development of the standard.

Corrigenda PAR motion

- Motion #4: Approve the IEEE P802.3-2015/Cor 1 PAR in p802d3ce_cor1_par.pdf
  - M: V. Maguire   S: D. Law
  - Technical >= 75%
  - Passes by voice vote without opposition

ITU-T SG15 liaison motion

- Motion #5: Approve IEEE_802d3_to_ITU_SG15_0316_draft.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to ITU-T Study Group 15.
  - M: D. Law   S: S. Carlson
  - Technical >= 75%
  - Passes by voice vote without opposition

Future meetings

- Week of 23rd May 2016
  - Whistler, 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: XXXXXXX

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