

IEEE 802.3 Maintenance Task Force

17th March 2016

Macao

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

Topics

- Project information
- Activities this week
- IEEE Std 802.3-2015 to ISO/IEC JTC/SC6 for approval
- IEEE Std 802.3-2015/Cor1 (IEEE 802.3ce) PAR
- Liaison response to ITU-T Study Group 15
- Future meetings

IEEE 802.3 Maintenance Task Force

Project information

- Task Force Organization
 - Adam Healey, Chair
 - Valerie Maguire, Recording Secretary
- Task Force web and reflector information
 - Reflector: <http://www.ieee802.org/3/maint/reflector.html>
 - Home page: <http://www.ieee802.org/3/maint/index.html>
 - IEEE 802.3 Maintenance Request form:
http://www.ieee802.org/3/private/maint/revision_request.html
 - Username: *****, Password: *****

Activities this week

- Discussed 4 maintenance requests

#	Subject	Action
1277	Load during inrush (Clause 33)	<ul style="list-style-type: none">• Deferred pending discussion with P802.3bt TF chair
1283	Backplane/twinax PHY advertisement	<ul style="list-style-type: none">• Expecting update with new proposed revision text• Status remains “Received” pending update
1285	Incorrect DSQ128 mapping description	<ul style="list-style-type: none">• Status set to “Ready for ballot”• Target next revision
1286	PD entry to IDLE state	<ul style="list-style-type: none">• Status set to “Ready for ballot”• Forward to P802.3bt for consideration

- Submit IEEE Std 802.3-2015 to ISO/IEC JTC1 SC6 for approval under PSDO
- Approved draft PAR for IEEE Std 802.3-2015/Cor1
- Approved draft liaison letter to ITU-T SG15 on multilane timestamping

Revision request status summary

- 21 open maintenance requests
 - Approved 21 * (21) **
 - Balloting 1 (1)
 - Ready for ballot 16 (18)
 - Awaiting clarification 0 (0)
 - Errata 0 (0)
 - To be categorised 4 (2)

* As shown on the maintenance web site

** Reflects pending updates

IEEE Std 802.3-2015 to ISO/IEC JTC/SC6 for approval

Task Force 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 $\geq 75\%$
 - Passes by voice vote without opposition

Working Group motion

- Submit IEEE Std 802.3-2015, as published, to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement
 - M: A. Healey on behalf of the Task Force
 - Technical $\geq 75\%$
 - Y: yy, N: nn, A: aa
 - MOTION PASSES/FAILS

IEEE Std 802.3-2015/Cor1 (IEEE 802.3ce) PAR

Task Force motion

- Motion #4: Approve the IEEE P802.3-2015/Cor 1 PAR in [p802d3ce_cor1_par.pdf](#)
 - M: V. Maguire S: D. Law
 - Technical $\geq 75\%$
 - Passes by voice vote without opposition

Major PAR form questions

The PAR form is completed on-line in through the myProject system. Many of the PAR questions 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~~ 05/2017

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~~smart grid.

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.

Working Group motion

- Approve the IEEE P802.3-2015/Cor 1 PAR in [P802_3_2015_Cor_1_PAR_160316.pdf](#)
 - M: A. Healey S: S. Carlson
 - Technical $\geq 75\%$
 - Y: yy, N: nn, A: aa
 - MOTION PASSES/FAILS

Liaison response to ITU-T Study Group 15

[Draft liaison letter]

Task Force 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 $\geq 75\%$
 - Passes by voice vote without opposition

Working Group motion

- 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: A. Healey S: S. Carlson
 - Technical $\geq 75\%$
 - Y: yy, N: nn, A: aa
 - MOTION PASSES/FAILS

Future meetings

- Week of 23rd May 2016
 - Whistler, BC, Canada

Questions?

Thank you!