

IEEE 802.3 Maintenance Task Force

16th March 2017

Vancouver, BC, Canada

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

Topics

- Project information
- Activities this week
- IEEE P802.3-2015/Cor 1 to RevCom
- Response to China NB comments
- Request to IANA for additions to the IANA MAU MIB
- Revision PAR
- Next meeting

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: XXXXX, Password: YYYYYYY

Activities this week

- Considered 2 Maintenance Requests

#	Clause	Subject	Action
1298	78	Sort order	“Received”, need specific change text
1301	90	Timestamp reference point for 100BASE-T	“Received”, need specific change text

- Requested that IEEE P802.3-2015/Cor 1 be submitted to RevCom
- Reviewed China NB comments
 - Approved liaison communications with comment responses
- Approved request to IANA for additions to the IANA MAU MIB
- Reviewed revision plan and approved draft PAR

Revision request status summary

- 29 open maintenance requests
- Current status of open requests
 - Approved 0
 - Balloting 5
 - Ready for ballot 22
 - Awaiting clarification 0
 - Errata 0
 - To be categorized 2

IEEE P802.3-2015/Cor 1 to RevCom

Corrigendum motion

- Submit IEEE P802.3-2015/Cor 1 to RevCom.
 - M: A. Healey on behalf of the Task Force
 - Technical $\geq 75\%$
 - Y: yy, N: nn, A: aa
 - MOTION PASSES/FAILS

Task Force Motion #3: Submit IEEE P802.3-2015/Cor 1 to RevCom
M: G. Thompson S: R. Grow
Technical $\geq 75\%$
Passes by voice vote without opposition

Response to China NB comments

[Comments and liaison letters]

Liaison motion

- Approve
IEEE_802d3_to_ISOIEC_JTC1_SC6_0317_1_draft.pdf and
IEEE_802d3_to_ISOIEC_JTC1_SC6_0317_2_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 JTC 1/SC 6.
 - M: A. Healey S: <TBA>
 - Technical $\geq 75\%$
 - Y: yy, N: nn, A: aa
 - MOTION PASSES/FAILS

Task Force Motion #4: Approve IEEE_802d3_to_ISOIEC_JTC1_SC6_0317_1_draft.pdf and
IEEE_802d3_to_ISOIEC_JTC1_SC6_0317_2_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 JTC 1/SC 6.

M: D. Law S: S. Carlson

Technical $\geq 75\%$

Passes by voice vote without opposition

Request to IANA

Request to IANA motion

- Approve submission of the content of http://www.ieee802.org/3/maint/public/IANA_request_0117.pdf with editorial license granted to the Chair (or his appointed agent) as a request from the IEEE 802.3 Working Group to the Internet Assigned Numbers Authority (IANA).
 - M: A. Healey, S: <TBA>
 - Technical $\geq 75\%$
 - Y: yy, N: nn, A: aa
 - MOTION PASSES/FAILS

Task Force Motion #5: Approve submission of the content of IANA_request_0117.pdf with editorial license granted to the Chair (or his appointed agent) as a request from the IEEE 802.3 Working Group to the Internet Assigned Numbers Authority (IANA).

M: D. Law S: S. Carlson

Technical $\geq 75\%$

Passes by voice vote without opposition

Revision

[Plan and PAR]

IEEE Std 802.3 Revision

IEEE-SA Standards Board Operations Manual

(Approved by the IEEE-SA Standards Board December 2016)

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 802.3-2015 was approved 9th September 2015**
- **IEEE Std 802.3bv-2017 was the ninth amendment!**

A possible revision plan

- Initiate WG ballot as early as May 2017
 - Includes 9 published amendments, corrigendum, accumulated maintenance changes
- Based on currently anticipated project schedules...
- Incorporate P802.3bs, P802.3cb, P802.3cc for initial Sponsor ballot
- P802.3bt and P802.3cd become amendments to “IEEE Std 802.3-2018”
 - Earliest approval date becomes coincident with approval of the revision
- To avoid delaying those amendments, new capabilities or functional enhancements deferred to future projects
- **This is a sketch, but any plan must begin with a PAR**

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: **11/2017**

4.3 Projected Completion Date for Submittal to RevCom: **05/2018**

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 5.5 – Need for the Project

5.5 Need for the Project: IEEE Std 802.3-2015 will need to have a revision initiated by 2018 to allow consideration of future amendments per standards board policies. This revision will include the merge of approved amendments, corrigenda, and accumulated maintenance changes. Because there are multiple amendments in the "pipeline", it will be desirable to complete this revision by 2018 to provide a solid base for sponsor balloting of approved amendment projects that will follow the revision. These schedule considerations require timely completion of the revision. As a result, new capabilities or functional enhancements may have to be deferred to future projects to avoid delaying approved and 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 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.

PAR item 5.4 – Purpose

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

Revision PAR motion

- Approve the IEEE P802.3 Revision PAR
http://www.ieee802.org/3/maint/public/P802_3_PAR_Draft_1_0317.pdf.
 - M: A. Healey S: <TBA>
 - Technical $\geq 75\%$
 - Y: yy, N: nn, A: aa
 - MOTION PASSES/FAILS

Task Force Motion #6: Approve the IEEE P802.3 Revision PAR “P802_3_PAR_Draft_1_0317”.
M: R. Grow S: D. Law
Technical $\geq 75\%$
Passes by voice vote without opposition

Next meeting

- Week of 22 May 2017
 - New Orleans, LA, USA

Questions?

Thank you!