IEEE 802.3 Maintenance Task Force Closing Report

Adam Healey, Broadcom Inc.
Chair, IEEE 802.3 Maintenance TF

23 July 2020

Topics

- Project information

- Activities this session

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

- Standards to ISO/IEC JTC/SC 6 for approval

- Revision PAR

Project information

- Task Force Organization
  - Adam Healey, Chair
- 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

Activities this session

- Considered 9 maintenance requests

No.	Clause	Subject	Action
1344	99.4.6	Incorrect primitive name	"Ready for ballot"
1357	99.1	Include 10 Mb/s in Clause 99 introduction	Withdrawn
1358	125.3	Incorrect conversion of units	"Ready for ballot"
1359	Various, see details	Inconsistent usage of "PHY"	"Received" pending further evaluation
1360	147.9.2	Incorrect units	Errata
1361	1.1	Add "Word usage" Subclause	"Ready for ballot"
1362	44.3	Remove "informative" label from Table 44-2	Request submitter to update revision text
1363	Table 136C-3	Incorrect contact mapping	"Ready for ballot"
1364	Figure 98-9	Incorrect variable assignment	"Ready for ballot"

- Approved liaison letter to forward drafts to ISO/IEC JTC 1/SC 6 for preview under the PSDO process

Activities this session, continued

- Requested to submit multiple standards to ISO/IEC JTC 1/SC 6 for ratification
- Reviewed revision plan and approved draft PAR

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Drafts to ISO/IEC JTC 1/SC 6 motion

- Approve IEEE_802d3_to_ISOIEC_JTC1_SC6_0720_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: A. Healey   S: K. Lusted
  - Technical ($\geq$ 75%)

Task Force Motion #3: Approve IEEE_802d3_to_ISOIEC_JTC1_SC6_0720_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. Thomspon   S: P. Anslow
- Technical (> 75%)
- Passed by unanimous consent

Standards to ISO/IEC JTC 1/SC 6 motion

- Submit IEEE Std 802.3cn-2019, IEEE Std 802.3cg-2019, IEEE Std 802.3cq-2020, IEEE Std 802.3cm-2020, IEEE Std 802.3ch-2020, IEEE Std 802.3ca-2020, and IEEE Std 802.3.2-2019 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%)

Task Force Motion #4: Submit IEEE Std 802.3cn-2019, IEEE Std 802.3cg-2019, IEEE Std 802.3cq-2020, IEEE Std 802.3cm-2020, IEEE Std 802.3ch-2020, IEEE Std 802.3ca-2020, and IEEE Std 802.3.2-2019 to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement.
- M: N. Wienckowski   S: S. Carlson
- Technical (> 75%)
- Passed by unanimous consent

Revision

[Plan and PAR]

It is time to start the next revision

- [IEEE-SA Standards Board Operations Manual](#) 8.1.2

  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 802.3-2018 was approved 14 June 2018
- IEEE Std 802.3ca-2020 was the ninth amendment!

Possible revision schedules

Project	2020						2021												2022					
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
P802.3ck							WGB						SAB						Std!					
P802.3cp	<<<	WGB			SAB							Std!												
P802.3cr	<<<	SAB				Std!																		
P802.3cs			WGB				SAB					Std!												
P802.3ct	<<<	WGB			SCB										Std!									
P802.3cu	SAB					Std!																		
P802.3cv	<<<	WGB	SAB			Std!																		
P802.3cw											WGB						SAB							Std!
P802.3cx													WGB				SAB							Std!
P802.3cy																								
P802.3cz													WGB								SAB			
P802.3da													WGB								SAB			
P802.3db																								
Revision1			PAR?		WGB				SAB						Std!									
Revision2			PAR?						WGB			SAB							Std!					
Revision3			PAR?								WGB				SAB						Std!			
SASB		d	rb	d		sd	nr	d	d	s	nr	d	nrb		d	d	s	d	nr		s			

Any plan must begin with a PAR…

Key	
d	Nes/RevCom submission deadline
n	NesCom teleconference
r	RevCom teleconference
b	SB teleconference
s	SASB meeting series

Major PAR form questions

- The PAR form is completed on-line through the myProject system. Many of the PAR questions are pro forma and are automatically completed by selecting a "revision" project.

- These slides propose responses to the major items from the PAR form to assist in consensus building leading up to approving a completed draft PAR form.

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PAR item 2.1 – Project title

Project title: **Standard for Ethernet**

Help text: The title shall not contain the acronym "IEEE". This is added to the title when the standard publishes. All other acronyms shall be spelled out in the title. Typically titles begin with "Standard for...", "Guide for..." or "Recommended Practice for...". If a general term is used to represent ranges (e.g. high, medium, low) within the title, scope, or purpose, numerically define such ranges where they first appear (title, scope, or purpose, as applicable).

PAR items 4.2 and 4.3 – Project dates

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

07/2021

Help text: Enter the date the draft standard is planned to be submitted to IEEE SA for Initial Standards Association Ballot.

4.3 Projected Completion Date for Submittal to RevCom:

01/2022

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 Standards Association Ballot for the ballot process.

PAR item 5.1 – Project participation

5.1 Approximate number of people expected to be actively involved in the development of this project:

180

Help text: This includes Working Group members and additional nonvoting participants.

PAR item 5.2 – Scope of proposed standard

5.2 Scope of proposed 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: The Scope should appear as it will in the draft standard. The scope of the standard shall explain in statements of fact what is covered in the standard and, if necessary, what is not covered in the standard in other words, the technical boundaries of the document. The scope should be succinct so that it can be abstracted for bibliographic purposes. The Scope stated on the PAR shall be written in present tense, in complete sentences, and with proper grammar as it is intended to appear in the published standard. All acronyms shall be spelled out at first use. The title and (if appropriate) date of any document referenced in the Scope shall be listed in the Additional Explanatory Notes field at the end of this PAR form.

PAR item 5.3 – Project contingency

5.3 Is the completion of this standard contingent upon the completion of another standard?

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 – Purpose

5.4 Will this document contain a purpose clause?

No.

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

PAR item 5.5 – Need for the project

5.5 Need for the Project:

IEEE Std 802.3-2018 will need to be revised to allow future amendments to be considered per standards board policies. This revision will include the merge of approved amendments and accumulated maintenance changes. As there are a number of amendment projects currently in the "pipeline", it is desirable to complete this revision in a timely manner to provide a solid base for balloting of the projects that will follow. Timely completion of the revision is also desired to avoid delays to these projects. The consequence of these schedule considerations is that new capabilities or functional enhancements may have to be deferred to future projects.

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:

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 network interface card), 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.

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.

Revision PAR motion

- Approve the IEEE P802.3 Revision to IEEE Std 802.3-2018 (IEEE 802.3dc) PAR in http://www.ieee802.org/3/maint/public/P802d3_PAR_draft_0720.pdf
  - M: A. Healey   S: K. Lusted
  - Technical ($\geq$ 75%)

Task Force Motion #5: Approve the IEEE P802.3 Revision to IEEE Std 802.3-2018 (IEEE 802.3dc) revision PAR in http://www.ieee802.org/3/maint/public/P802d3_PAR_draft_0720.pdf
- M: R. Grow   S: S. Carlson
- Technical (> 75%)
- Passed by unanimous consent