

# IEEE 802.3 Maintenance Task Force Closing Report

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San Diego, CA USA  
12 July 2018

# Topics

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- Project information
- Activities this week
- Clause 33 maintenance PAR
- Isolation maintenance PAR
- Next meetings

# Maintenance TF information

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- 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](http://www.ieee802.org/3/private/maint/revision_request.html)

# Activities this week

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- Reviewed Clause 33 maintenance PAR
- Reviewed Isolation maintenance PAR
- Heard presentation on concerns with Clause 90 data delay measurements for PHYs that insert alignment markers

# PAR item 2.1 – Project title

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Project title: Standard for Ethernet Amendment:

**Maintenance #13: Power over Ethernet over 2 pairs**

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

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

**March 2020**

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:

**October 2020**

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 5.2A – Standard scope

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## 5.2A 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 5.2B – Project scope

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## 5.2B Scope of the Project:

**This project will implement editorial and technical corrections, refinements, and clarifications to Clause 33, Power over Ethernet over 2 pairs, and related portions of the standard. No new features will be added by this project.**

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



# PAR item 5.3 – Project contingency

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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

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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

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5.5 Need for the Project:

**Editorial and technical issues have been identified in Clause 33. These issues need to be addressed to improve the accuracy and clarity of the standard.**

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

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## 5.6 Stakeholders for the Standard:

**Ethernet component providers (e.g., cabling and integrated circuit), system product providers (e.g., switch and end stations), network providers (e.g., installers, network support) and network implementers (e.g., enterprise, building automation and industrial automation).**

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.

# Clause 33 maintenance PAR motion

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- Approve the IEEE P802.3cq Clause 33 Maintenance PAR in [http://www.ieee802.org/3/maint/public/P802\\_3cq\\_PAR\\_draft.pdf](http://www.ieee802.org/3/maint/public/P802_3cq_PAR_draft.pdf).
  - M: A. Healey on behalf of the Task Force
  - Technical  $\geq 75\%$

**Task Force Motion #3:** Approve the IEEE P802.3cq Clause 33 Maintenance PAR in

[http://www.ieee802.org/3/maint/public/P802\\_3cq\\_PAR\\_draft.pdf](http://www.ieee802.org/3/maint/public/P802_3cq_PAR_draft.pdf).

M: C. Jones

S: D. Abramson

Technical  $\geq 75\%$

Passes by voice vote without opposition

# PAR item 2.1 – Project title

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Project title: Standard for Ethernet Amendment:

**Maintenance #14: Isolation**

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

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

**November 2019**

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:

**May 2020**

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 5.2A – Standard scope

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## 5.2A 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 5.2B – Project scope

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## 5.2B Scope of the Project:

**Replace references to the IEC 60950 series of standards (including IEC 60950-1 “Information technology equipment - Safety - Part 1: General requirements”) with appropriate references to the IEC 62368 “Audio/video, information and communication technology equipment” series and make appropriate changes to the standard corresponding to the new references.**

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

# PAR item 5.3 – Project contingency

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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

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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

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## 5.5 Need for the Project:

**There are subclauses titled “Electrical isolation” throughout IEEE Std 802.3 requiring isolation meet one of three electrical strength tests with references to the IEC 60950 “Information technology equipment - Safety” series. IEC 60950, however, has been replaced by the IEC 62368 “Audio/video, information and communication technology equipment” series and therefore an update to all isolation material in IEEE Std 802.3 is required.**

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

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## 5.6 Stakeholders for the Standard:

**Stakeholders include component providers (e.g., cabling, integrated circuits), system product providers (e.g., switch and NIC), network providers (e.g. installers, network support), bandwidth providers (e.g., carriers), providers of network powered or powering devices, certification entities, global regulatory bodies, 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.

# Isolation maintenance PAR motion

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- Approve the IEEE P802.3cr Isolation Maintenance PAR in [http://www.ieee802.org/3/maint/public/P802\\_3cr\\_PAR\\_draft.pdf](http://www.ieee802.org/3/maint/public/P802_3cr_PAR_draft.pdf).
  - M: A. Healey on behalf of the Task Force
  - Technical  $\geq 75\%$

**Task Force Motion #4:** Approve the IEEE P802.3cr Isolation Maintenance PAR in

[http://www.ieee802.org/3/maint/public/P802\\_3cr\\_PAR\\_draft.pdf](http://www.ieee802.org/3/maint/public/P802_3cr_PAR_draft.pdf).

M: L. Yseboodt      S: J. Lewis

Technical  $\geq 75\%$

Passes by voice vote without opposition

# Future meetings

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- Week of 10 September 2018
  - Spokane, WA USA
- See <http://www.ieee802.org/3/interims/index.html>

Questions?

Thank you!