

# IEEE 802.3 Major PAR form questions

The PAR form is completed on-line in through 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 Standards Committee and the Working Group officers. This slideset therefore provides the major items from the PAR form to assist in consensus building leading up to approving a completed draft PAR form.

All acronyms shall be spelled out at first use.

The following are the Major PAR responses  
for the IEEE P802.3dp draft PAR

To add a continuation slide: CTRL-M -> right click new slide -> Layout -> select 'Continued' layout

# PAR item 2.1 – Project title

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Project title: Standard for Ethernet Amendment:  
Cabling Restrictions for Single Pair Power over Ethernet (SPoE)

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 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 Standards Association Ballot:

November 2025

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:

July 2026

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.** Cutoff dates for submitting draft standards to RevCom can be found in the yearly calendar located: <http://standards.ieee.org/about/sasb/meetings.html>.

# PAR item 5.1 – Project participation

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

10

Help text: This includes Working Group members, additional non-voting participants.

# 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:

Define requirements and restrictions for supporting the IEEE 802.3 'plug-and-play' interoperability model for Single-Pair Power over Ethernet (SPoE) due to current carrying capacity limitations in cabling (e.g. cabling with current capacity of less than 2 Amps per conductor).

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

5.3.1 If yes, please explain:

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:

The IEEE 802.3 WG needs to address that the current carrying capacity of certain cabling installed and being proposed for SPoE applications may be insufficient for the IEEE 802.3 ‘plug-and-play’ interoperability model.

The IEEE 802.3 Working Group (WG) became aware that ISO/IEC JTC 1/SC 25/WG 3 is drafting standards and technical reports (e.g. ISO/IEC 11801-1/AMD1 and ISO/IEC TR 11801-9911) that support use and reuse of balanced multi-pair cabling systems in one pair applications, resulting in a standards-imposed restriction of 0.75 A per conductor. Additionally, they are defining a 23 American Wire Gauge (AWG) single pair channel that only supports 0.75 A per conductor.

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:

End-users, vendors, system integrators/installers, and providers of systems and components (e.g., cabling, sensors, actuators, instruments, controllers, network infrastructure, and servers) for networks including industrial and building automation, mobile machinery (e.g., construction, agricultural equipment), and non-automotive transportation (e.g., buses, trains, aircraft, and ships).

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.

# PAR item 7.1 – Similar scope

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7.1 Are there other standards or projects with a similar scope? (Yes or No)?

No

If yes, please explain:

Help text: Identify any standard(s) or project(s) of similar scope(s), both within or outside of the IEEE, and explain the need for an additional standard in this area.

For any standard(s) or project(s) of similar scope(s) add 'Project slide(s)'  
To add: CTRL-M -> right click new slide -> Layout -> select 'Project' layout

# PAR item 8.1 – Additional notes

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Additional Explanatory Notes:

ISO/IEC 11801-1/AMD1 ED1 INFORMATION TECHNOLOGY –  
GENERIC CABLING FOR CUSTOMER PREMISES

ISO/IEC 11801-9911: Guidelines for the use of balanced single pair applications within a balanced 4 pair cabling system

If there is any further information that may assist NesCom in recommending approval for this project, include this information here. The title of any documents referenced in the PAR should be listed here.