

# Major PAR form questions

Proposed PAR Responses  
IEEE 802.3 Beyond 10km Optical PHYs Study Group  
(IEEE 802.3cn)

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April 17, 2018 Teleconference

# Introduction

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- Presentation is being given with my “Chair” hat on.
  - None of this discussion should be interpreted as an endorsement of any objective or proposal by me.
- PAR covers objectives adopted to date by Study Group
  - [http://www.ieee802.org/3/B10K/project\\_docs/objectives\\_180308.pdf](http://www.ieee802.org/3/B10K/project_docs/objectives_180308.pdf)
  - Potential other objectives related draft text is indicated by GREY text
- Study Group documentation has been used, as appropriate, to generate the proposed responses.

# Major PAR form questions

The PAR form is completed on-line in thought 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 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

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Project title: Standard for Ethernet Amendment:

Single PAR:

Physical Layers and Management Parameters for 50 Gb/s, 100 Gb/s, and 200 Gb/s Operation [ 400 Gb/s ] over Single-Mode Fiber

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:

Date TBD

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:

Date TBD

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:

Define physical layer specifications and management parameters for the transfer of Ethernet format frames over single-mode fiber at 50 Gb/s and 200 Gb/s [400 Gb/s] at reaches greater than 40 km; and 100 Gb/s [ 200 Gb/s and 400 Gb/s] at reaches greater than 80km.

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.

(For Ad hoc discussion – decisions made in the Task Force might change this.)

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:

[Excerpted from BMP Responses]

Optical solutions targeting 40 km will address the bandwidth requirements of the access layers of mobile backhaul networks, in particular in China, as forecasted bandwidth data indicates demand fueled by consumer video in excess of other world regions. Optical solutions targeting 80 km will address the bandwidth growth and reach requirements of Cable/MSO distribution networks, mobile backhaul networks and data center interconnect networks where reaches in excess of 40 km are required, or where fiber availability drives the need multiple Ethernet interfaces on a single fiber.

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:

Users and producers of systems and components for mobile backhaul networks, cable/multi-service operator (MSO) distribution networks, data center interconnect networks, and any networks needing reaches of 40 km or 80 km.

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.