## Major PAR form questions

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

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#### Introduction

- 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
  - Potential other objectives related draft text is indicated by GREY text
- Study Group documentation has been used, as appropriate, to generate the proposed responses.
- Different dates have been calculated based on
  - Dividing the project into two projects based on 40km and 80km objectives
  - The 80km project was also seen as representative of a single project that would contain both 40 and 80km objectives.
- If dividing into two projects the appropriate documentation sets will need to be created for May Interim meeting.

# What happens if a Study Group Creates More than 1 PAR?

- IEEE 802 LMSC P&P, Section 5.4 Standards study groups (<a href="http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf">http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf</a>)
  - The Study Group shall have a defined task with specific output and a specific time frame established within which it is allowed to study the subject. <u>It is expected that the work effort to develop a PAR will originate in an ECSG or WGSG.</u> A Study Group shall report its recommendations, shall have a limited lifetime, and is chartered plenary session-to-plenary session. A study group is expected to submit a PAR to the EC for consideration by the 2nd plenary session after its initiation. After the Study Group recommendations have been accepted by the parent body, the Study Group will be disbanded no later than the end of the next plenary session. <u>A Study Group is disbanded upon approval of the PAR by the IEEE-SA Standards Board.</u>
- IEEE 802 LMSC Chair's Guidelines, Section 3.2 "When is an SG disbanded if it develops more than one PAR?
   (https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-26-0PNP-ieee-802-lmsc-chairs-guidelines.pdf)
  - In regards to the phrase "upon approval of the PAR by the IEEE-SA Standards Board" in the last paragraph of Section 5.4 of the IEEE 802 LMSC Policies and Procedures, if an SG has more than one PAR approved by the EC for forwarding to NesCom, the SG is disbanded when all those PARs have been approved by SASB or at the end of the next plenary session if the SG is not renewed.

# 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

Project title: Standard for Ethernet Amendment:

Single PAR:

Physical Layers and Management Parameters for 50 Gb/s, 100 Gb/s, and 200 Gb/s [ 400 Gb/s ] Operation 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

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

Date Nov 2019 / July 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:

Date Jun 2020 / Mar 2021

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

#### 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

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, 100 Gb/s, 200 Gb/s [, and 400 Gb/s] at reaches greater than 10 km.

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

### PAR item 5.3 – Project contingency

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

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

#### 5.5 Need for the Project:

[Excerpted from BMP Responses]

Optical solutions targeting greater than 10 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 greater than 10 km over a DWDM system 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 greater than 10 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

#### 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 in excess of 10 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.