

# Updated per SG Discussion: Proposed Responses to PAR Questions

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# PAR item 2.1 – Project title

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Project title: Standard for Information technology --  
Telecommunications and information exchange between systems --  
Local and metropolitan area networks -- Specific requirements  
Part 3: Carrier Sense Multiple Access  
Amendment:

- Physical Layer and Management Parameters for Serial 40 Gb/s Ethernet Operation Over Single Mode Fiber

Help text: The title of the base standard is uneditable. Please enter the amendment title.

# 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:

40

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

# PAR item 5.2 – Project scope

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5.2 Enter the Scope of the Proposed changes (What?):

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The scope of this project is to specify additions to and appropriate modifications of IEEE Std 802.3-2008 as amended by the IEEE P802.3ba project (and any other approved amendment or corrigendum) to add a single-mode fiber Physical Medium Dependent (PMD) option for serial 40 Gb/s operation, utilizing only the existing 40GBASE-R Physical Coding Sublayer (PCS), Physical Medium Attachment Sublayer (PMA), logical interfaces, and electrical interfaces.

Help text: For amendments and corrigenda, there is normally no scope in the draft. Therefore, on the PAR form, the scope shall state what the amendment/corrigendum is changing.

# 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:

Yes, this project will define a new PMD, and will build upon the 40Gb/s MAC, PCS sub-layer, PMA sub-layer, logical interfaces, electrical interfaces, and management registers defined in IEEE P802.3ba.

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 Enter the Purpose of the Proposed changes (Why?):

This project will define a 40 Gb/s serial PMD that supports a link distance of at least 2km over single-mode fiber that is optically compatible with existing carrier 40Gb/s client interfaces (OTU3/STM-256/OC-768/40G Packet over SONET (POS)), which will enable interconnection between equipment in carrier networks or as uplink interconnections from enterprises, data centers, or other network operators into carrier networks.

NOTE - Add explanation of these terms OTU3/STM-256/OC-768/SONET to “PAR additional notes.”

Help text: For amendments and corrigenda, there is normally no purpose in the draft. Therefore, on the PAR form, the purpose shall state what the amendment/corrigendum is changing.

# PAR item 5.5 – Project need

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## 5.5 Need for the Project:

The project is needed to provide multiple system operators and telecommunications operators with an IEEE 802.3 Ethernet 40 Gb/s serial PHY that provides optical compatibility with existing carrier 40Gb/s client interfaces.

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.

# PAR item 5.6 – Stakeholders

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## 5.6 Stakeholders for the Standard:

Stakeholders identified to date include, but are not limited to, users and producers of systems and components for telecommunications carriers, data centers, networking systems, and multiple system operators (MSOs).

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.