IEEE 802.3 25 Gb/s Ethernet PMD(s) for Single Mode Fiber Study Group Comments Received on PAR & CSD

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Comments on 25GSMF PAR & CSD - 1

- ## 2/9: Comment on draft PAR: David Law; IEEE 802.3

- Please consider this comment from me on the IEEE P802.3cc draft PAR during the upcoming plenary meeting.

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- There are five amendments current in sponsor ballot, IEEE P802.3bn EPON protocol over Coax (EPoC), IEEE P802.3bp 1000BASE-T, IEEE P802.3bq 25G/40GBASE-T, IEEE P802.3br Interspersing Express Traffic (IEF), and IEEE P802.3by 25Gb/s Ethernet. These are all highly likely to be approved as IEEE standards prior to the approval of IEEE P802.3cc. In addition, less likely, but possible, is another revision to IEEE 802.3 prior to the approval of IEEE P802.3cc.

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- Based on the above, suggest that the reference to the IEEE P802.3by amendments, and the dated references to IEEE Std 802.3, be removed. Suggest that the text '… **appropriate modifications of, IEEE Std 802.3-2015 as amended by the IEEE P802.3by project.' be changed to read '… appropriate modifications of, IEEE Std 802.3.'.**

Comments on 25GSMF PAR & CSD - 2

Comments from SG meeting on Monday 3/14/2016

- **Distinct Identity –To distinguish 25G SMF objectives from 25G SMF for EPON (P802.3ca), the following changes were agreed on for the Distinct Identity slide in "25G SMF Study Group Draft: CSD Responses"**

- - There is no standard or project developing a standard that supports **point-to-point** Ethernet at 25Gb/s for reaches greater than 100 m.

- - There is no standard or project developing a standard that supports **point-to-point** Ethernet over single-mode fiber cabling at a data rate of 25 Gb/s.

- PAR document.

- Tom McDermott suggested revising the **PAR Section 5.2b to read "point-to-point single mode fiber" to be consistent with the changes made to Distinct Identity.**

Comments on 25GSMF PAR & CSD - 3

3/15/2016 IEEE P802.3cc PAR: James Gilb; IEEE 802.11

- P802.3cc

- PAR comments:

- 5.2.b: "as amended by the IEEE P802.3by project." The scope is to be written as present tense, i.e., that IEEE P802.3by has been completed (otherwise it would not amend IEEE 802.3-2015). However, once .3by is approved, it is automatically part of 802.3 and you don't need to call out all of the amendments.

- I suspect the problem is that 5.3 should be marked as Yes and IEEE P802.3by be listed. Then delete "as amended by the IEEE P802.3by project."

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- 5.2.b: The need states that the goal is 100 m SMF, this should be stated in the Scope, i.e., change "operation by specifying" to be "operation at reaches greater than 100 m by specifying"

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- CSD comments:

- Distinct Identity: The reasoning states that there is no other 25 Gb/s PHY with > 100 m reach, yet this is not a requirement in the scope. If this requirement is added to the scope, then the statement here would be true.

Proposed changes to 802.3cc PAR

5.2.b. Scope of the project: The scope of this project is to add **point-to-point** single-mode fiber Physical Medium Dependent (PMD) options for serial 25 Gb/s operation **at reaches greater than 100 m** by specifying additions to, and appropriate modifications of, IEEE Std 802.3 ~~2015 as amended by the IEEE P802.3by project~~.

5.3 Is the completion of this standard dependent upon the completion of another standard: ~~No~~ **Yes. P802.3by.**

5.4 Purpose: This document will not include a purpose clause.

5.5 Need for the Project: The project is needed to provide multiple system operators and telecommunications operators with an IEEE 802.3 25
Gb/s Ethernet serial interconnect solution at reaches greater than 100 meters using single-mode fiber (SMF) for application areas including
enterprise campus, carrier metro and other similar areas.

Distinct Identity (proposed updates)

Each proposed IEEE 802 LMSC standard shall provide evidence of a distinct identity. Identify standards and standards projects with similar scopes and for each one describe why the proposed project is substantially different.

Substantially different from other IEEE 802.3 specifications / solutions.

- There is no standard or project developing a standard that supports **point-to-point** Ethernet at 25 Gb/s for reaches greater than 100 m.

- There is no standard or project developing a standard that supports **point-to-point** Ethernet over single-mode fiber cabling at a data rate of 25 Gb/s.