

IEEE 802.3 10SPE Multidrop Enhancements (SPMD) Study Group PAR and CSD Reply Report

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(modified May 21, 2020 after the 802.3 WG meeting)

PAR and CSD Comments from 802.11

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802.3da Amendment: 10Mb/s Single Pair Ethernet Multidrop Enhancements, [PAR](#) and [CSD](#)

PAR: 2.1 missing the word “network” -suggest add to title: “Physical Layer Specifications and Management Parameters for 10 Mb/s Operation over Single Balanced Pair Multidrop Network Enhancements”

5.2.b suggest add text from the CSD “This amendment specifies optional power delivery supporting multiple powered devices on the mixing segment.”

5.5 “from legacy networks to Ethernet” what are “legacy networks” in this context? Suggest “legacy non-Ethernet networks”.

CSD: 1.2.2 Broad Market Potential: suggest same change as in PAR 5.5.

PAR 2.1 Response

The comment suggested the addition of Network. The group thought that network would not be the proper term as we are specifying enhanced operation over a segment of the network and not the network as a whole.

AIP

Amendment: Physical Layer Specifications and Management Parameters for Enhancement of 10 Mb/s Operation over Single Balanced Pair Multidrop Segments ~~Enhancements~~

PAR 5.2.b Response

5.2.b was modified to be consistent with the title change (see PAR 2.1 response).

AIP

5.2.b Scope of the project: Specify additions and modifications of the Physical Layer (including reconciliation sublayers), management parameters, Ethernet support for time synchronization protocols, and optional power delivery **supporting multiple powered devices on the 10Mb/s mixing segment.** ~~to enhance 10Mb/s multidrop single balanced pair networks~~

Par 5.5 Response

Accept

5.5 Need for the Project: Many applications in building, industrial, and transportation industries have begun the transition from legacy **non-Ethernet** networks to Ethernet. A number of these applications require enhancements to 10Mb/s multidrop single balanced pair networks, e.g., larger multidrop topologies, power delivery, TSSI (Time Synchronization Service Interface). These enhancements will increase the applications addressed by this technology.

CSD1.2.2 Response

Accept

Broad Sets of Applications:

Many applications in building, industrial, and transportation industries have begun the transition from legacy **non-Ethernet** networks to Ethernet. A number of these applications require enhancements to 10Mb/s multidrop single balanced pair networks, e.g., larger multidrop topologies, power delivery, TSSI (Time Synchronization Service Interface). These enhancements will increase the applications addressed by this technology.

Questions?

Thank you!