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TR-42 CORRESPONDENCE

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Date: August 5,2020

To: David Law, IEEE 802.3 Working Group Chair, dlaw@hpe.com

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Re: TR-42 liaison to IEEE on Single-Pair Multidrop

Dear Mr. Law:

TIA TR-42.7 has embarked on a project to specify cabling and components that will enable plug-and-play configuration of mixing segments for multidrop single-pair Ethernet. As part of this work, it appears to us that the electrical parameters of the interface to the attached node, including a stub, is going to have substantial impact on the resulting performance characteristics. These electrical parameters will be useful in developing the cabling requirements.

IEEE 802.3 has standardized electrical specifications for the MDI in section 147.9.2 and Table 147-4 of IEEE Std™ 802.3cg-2019. We understand that IEEE P802.3da may refine, extend, or modify these specifications to achieve its proposed enhancements. A collaborative approach in developing TIA cabling specifications and IEEE P802.3da PHY specifications will be important and may depend on whether the node supports powering or not.

We would appreciate the cooperation of IEEE 802.3 in communicating early draft specifications and proposals in a timely fashion for use in developing cabling specifications.

Sincerely,

Gregory Sandels
Chair, TIA TR-42 Engineering Committee