



TELECOMMUNICATIONS
INDUSTRY ASSOCIATION

1320 N. Courthouse Rd., Suite 200
Arlington, VA 22201 USA
www.tiaonline.org

Tel: +1.703.907.7700
Fax: +1.703.907.7727

TR-42 CORRESPONDENCE

Gregory Sandels,
gsandels@ofsoptics.com

Date: August 5,2020

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

Cc: Konstantinos Karachalios, IEEE-SA Standards Board Secretary & IEEE-SA Board of
Governors Secretary, sasecretary@ieee.org
Paul Nikolich, IEEE 802 LMSC Chair, p.nikolich@ieee.org
Adam Healey, IEEE 802.3 Working Group Vice Chair, adam.healey@broadcom.com
Steve Carlson, IEEE 802.3 Working Group Executive Secretary, scarlson@ieee.org
Jon Lewis, IEEE 802.3 Working Group Secretary, jon.lewis@dell.com
Chad Jones, IEEE P802.3da Task Force Chair, cmjones@cisco.com
Henry Franc, TIA TR-42 Engineering Committee Vice Chair, henry.franc@belden.com
Jonathan Jew, TIA TR-42 Engineering Committee Secretary, jew@j-and-m.com
Wayne Larsen, TIA TR-42.7 Subcommittee Chair, wayne@wdlresearch.com
Valerie Maguire, TIA Outgoing Liaison to IEEE 802.3 Working Group,
valerie_maguire@siemon.com
Chris DiMinico, IEEE 802.3 Working Group Incoming Liaison to TIA, cdiminico@ieee.org
Teesha Jenkins, TIA Manager, Standards Secretariat Services, tjenkins@tiaonline.org

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