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Date: June 26, 2017

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

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Re: TR-42 liaison to IEEE 802.3 regarding single-pair cabling standards

Dear Mr. Law:

In reference to your liaison letter of March 16, 2017, we would like to inform you that TIA TR-42 has initiated four new projects. They are listed below:

- ANSI/TIA-PN-568.5, *Single Twisted-pair Cabling and Components Standard*

  Scope: A single twisted-pair cabling and components standard to provide specifications for cables, connectors, cords, links and channels using 1-pair connectivity in non-industrial premises telecommunications networks. The standard will focus on MICE1 environments and will include cabling and component performance requirements and test procedures, reliability requirements and test procedures, as well as guidelines for adaptations to four pair cabling.

- ANSI/TIA-PN-568.0-D-2, *Generic Telecommunications Cabling for Customer Premises, Addendum 2: Single Balanced Twisted-pair Use Cases and Topology*

  Scope: Addendum to add single balanced twisted-pair use cases, topology, and architecture to ANSI/TIA-568.0-D providing guidelines in buildings where 1-pair cabling can be deployed in addition to IBS. The standard will include installation requirements and additional guidelines for transitioning from 4-pair to 1-pair cabling including sheath sharing. The standard will also provide single balanced twisted-pair cabling guidelines in accordance with ANSI/TIA-568.5 for emerging IOT and M2M applications that will require higher density, reduced size, and greater flexibility to serve these IOT devices.

- ANSI/TIA-PN-862-B-2, *Structured Cabling Infrastructure Standard for Intelligent Building Systems, Addendum 2: Single Balanced Twisted-pair Use Cases and Topology*

  Scope: Addendum to add single balanced twisted-pair use cases, topology, and architecture to ANSI/TIA-862-B providing guidelines in buildings where 1-pair cabling can be deployed in addition to the 4-pair cabling used for IBS applications. The standard will include installation requirements and additional guidelines for transitioning from 4-pair to 1-pair cabling including sheath sharing. The standard will also provide single balanced twisted-pair cabling guidelines in accordance with ANSI/TIA-568.5 for emerging IOT and M2M applications that will require higher density, reduced size, and greater flexibility to serve these IOT devices.

- ANSI/TIA-PN-1005-A-4, *Telecommunications Infrastructure Standard for Industrial Premises, Addendum 4: Single Balanced Twisted-pair Use Cases and Topology for Industrial Premises*

  Scope: A single balanced twisted-pair cabling and components standard to provide specifications for cables, connectors, cords, links and channels using 1-pair connectivity in industrial premises telecommunications networks. The standard will focus on MICE2 and MICE3 environments and will include cabling and component performance requirements and test procedures, reliability requirements and test procedures, as well as guidelines for adaptations to four pair cabling.

We look forward to cooperating with you in these projects.

Sincerely,

Ray Emplit
Chair, TIA TR-42 Engineering Committee