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Date: February 17, 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 Ethernet

Dear Mr. Law:

In reference to our liaison letter of October 10, 2016, as part of the activity of the TIA TR-42 Joint Task Group on Single-pair Cabling, we envision there will be discussion of optional connectors appropriate for single-pair cabling applications, including those under consideration by the IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Task Force, both for benign (i.e., M₁I₁C₁E₁) and harsh environments.

We respectfully request any information you can provide on this work, especially with regards to the desired performance characteristics including:

- the frequency limits under consideration
- number of connections for envisioned use cases
- gauge of cables contemplated for different use cases
- use case environments beyond those described in the MICE table (attached)

We noticed that the published specification IEEE 802.3bw-2015 and IEEE 802.3bp-2016, some parameters are unspecified. Can you please provide information on the following parameters?

- Mode conversion requirements for 1000BASE-T1 Optional link segment type B
- Delay characteristics for 100BASE-T1

Sincerely,



Ray Emplit
Chair, TIA TR-42 Engineering Committee

Attachment