

IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

To: Ray Emplit Chair, TIA TR-42 Engineering Committee
remplit@harger.com

CC: Konstantinos Karachalios Secretary, IEEE-SA Standards Board
 Secretary, IEEE-SA Board of Governors
sasecretary@ieee.org

 Paul Nikolich Chair, IEEE 802 LMSC
p.nikolich@ieee.org

 Adam Healey Vice-chair, IEEE 802.3 Ethernet Working Group
adam.healey@broadcom.com

 Pete Anslow Secretary, IEEE 802.3 Ethernet Working Group
panslow@ciena.com

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

Subject: Liaison letter to TIA TR42 regarding 1-pair cabling and applications

Approval: [for approval at] Agreed to at IEEE 802.3 interim meeting, Fort Worth, Texas,
USA, 15 September 2015

¹ This document solely represents the views of the IEEE 802.3 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

Dear Mr. Emplit,

We would like to update you on several IEEE 802.3 working group activities for applications using 1-pair balanced twisted-pair cabling. The activities and current status is listed below:

1. IEEE 802.3bp Std.1000BASE-T1 providing 1 Gb/s over up to at least 15 m and up to at least 40 m of 1-pair balanced cabling (published 2016)
2. IEEE 802.3bw Std.100BASE-T1 providing 100 Mb/s over up to 15 m 1-pair balanced cabling (published 2016)
3. IEEE 802.3bu Power over Data Lines over 1-pair balanced cabling (draft 3.1 now in sponsor ballot attached herewith)
4. IEEE 10SPE study group for 10 Mb/s over 1-pair balanced cabling with a target reach up to approximately 1 km (developing objectives and CSD, information available at <http://www.ieee802.org/3/10SPE/index.html>)

Additionally, the 802.3 working group has received a request for a call for interest on a Multi-Gigabit Automotive Ethernet PHY at its November 2016 plenary. This is the first step in the IEEE 802 process towards a new standards project. Further information is available at http://www.ieee802.org/3/cfi/request_1116_1.html.

We understand that TIA TR42 is considering the support of 1-pair balanced twisted-pair applications and the development of 1-pair balanced twisted-pair cabling specifications. We would therefore welcome the opportunity to collaborate on projects in this area.

As listed above, some of the IEEE 802.3 projects have reached completion, others are in progress, and some are just starting. It is important that IEEE 802.3 and TIA TR42 establish good collaboration so these activities are well coordinated. Please let us know if you have any questions and if you need any further information on these activities.

We look forward to cooperating with you in these projects.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group