

Draft Liaison letter from IEEE 802.3 to ISO/IEC/JTC 1/SC 25/WG 3
regarding 1-pair cabling and applications

Masood Shariff



Dear Dr. Oehler,

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 15 m and up to 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 covering a reach up to 1.2 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 and consensus building presentation 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 ISO/IEC/JTC 1/SC 25/WG 3 is considering the development of 1-pair balanced twisted-pair cabling specifications and welcome the opportunity to collaborate on projects in this area.

As you can see, 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 ISO/IEC/JTC 1/SC 25/WG 3 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