



# ISO/IEC JTC 1/SC 25 **N 2670**

Date: 2017-01-23

Replaces ISO/IEC JTC 1/SC 25 N/A

**ISO/IEC JTC 1/SC 25  
INTERCONNECTION OF INFORMATION TECHNOLOGY EQUIPMENT  
Secretariat: Germany (DIN)**

**DOC TYPE:** Outgoing Liaison

**TITLE:** Liaison to IEEE 802.3 regarding 1-pair cabling (response to incoming liaison dated 2016-09-15)

**SOURCE:** Convenor SC 25/WG 3

**PROJECT:** various

**STATUS:** Liaison to IEEE 802.3

**ACTION ID:** SC 25 to note

**DUE DATE:** n/a

**REQUESTED ACTION**

**MEDIUM:** open

**DISTRIBUTION:** ITTF, JTC 1 Secretariat  
P-, L-, O-Members of SC 25  
SC 25 PTT

**No of Pages:** 3 (including cover)

ISO/IEC JOINT TECHNICAL COMMITTEE 1  
SUBCOMMITTEE No.25: INTERCONNECTION OF  
INFORMATION TECHNOLOGY EQUIPMENT  
WORKING GROUP 3: CUSTOMER PREMISES CABLING

To: David Law, Chairman IEEE 802.3 [dlaw@hp.com](mailto:dlaw@hp.com)  
CC: Adam Healey, Vice Chair IEEE 802.3, [adam.healey@lsi.com](mailto:adam.healey@lsi.com)  
Pete Anslow, Secretary, IEEE 802.3, [panslow@ciena.com](mailto:panslow@ciena.com)  
Alan Flatman, Liaison Officer [a\\_flatman@tiscali.co.uk](mailto:a_flatman@tiscali.co.uk)  
Gilles Thonet, IEC/CO, [gth@iec.ch](mailto:gth@iec.ch)

**Subject: SC 25/WG 3 response to your liaison regarding 1-pair cabling**

Dear David,

Thank you for your liaison from the IEEE 802.3 Working Group, dated September 15, 2016 regarding 1-pair cabling and applications.

At our 16<sup>th</sup>/20<sup>th</sup> January 2017 meeting in Singapore, ISO/IEC JTC1 SC 25/WG 3 discussed the liaison letter and would like to offer the comments, questions, and updates for the projects listed below:

1. IEEE Std 802.3bp-2016 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 8th March 2016)

*WG3: At our September meeting, a New Project was approved for a Technical Report to define cabling in support of 1000BASE-T1 Alternative B. We expect that the first CD will be circulated after our next meeting.*

*Additionally, a New Project to create an amendment to ISO/IEC 11801-6 has been approved, to include an informative Annex to provide guidance for 1 pair cabling within the service distribution cabling subsystem.*

2. IEEE Std 802.3bw-2015 100BASE-T1 providing 100 Mb/s over up to 15 m 1-pair balanced cabling (published 9th September 2016)

*WG3: As mentioned above, a New Project to create an amendment to ISO/IEC 11801-6 has been approved, to include an informative Annex to provide guidance for 1 pair cabling within the service distribution cabling subsystem .*

3. IEEE P802.3bu Power over Data Lines over 1-pair balanced cabling (draft 3.1 now in sponsor ballot, attached herewith)

*WG3: The cabling specifications addressing 4-pair Resistance and Resistance unbalance will be reviewed and modified as appropriate to support 1-pair cabling*

4. IEEE 802.3 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>)

*WG3: There is much interest in supporting this project and individual members have already been contributing to the IEEE 10SPE study group, which our liaison officer informed us has now been approved as a task force. We welcome additional details as they become available so that we can develop standardized cabling in support of this application.*

Additionally, our liaison officer Alan Flatman has informed us that the call for interest (CFI) on a Multi-Gigabit Automotive Ethernet PHY succeeded and initial CSD, PAR, and objectives have been drafted by the study group. We would like to congratulate you on the initiation of this project and look forward to collaborating on cabling issues as needed.

We appreciate the opportunity to work together and would like to continue our collaboration for the development of IEEE 802.3 applications supported by ISO/IEC/JTC 1/SC 25/WG 3 generic cabling.

Sincerely,  
Albrecht

Prof. Dr.-Ing. Albrecht Oehler  
Convenor ISO/IEC JTC 1/SC 25 WG 3