



ISO/IEC JTC 1/SC 25 **N 2753**

Date: 2017-09-15

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

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
CC: Adam Healey, Vice Chair IEEE 802.3, adam.healey@lsi.com
Pete Anslow, Secretary, IEEE 802.3, panslow@ciena.com
Alan Flatman, Liaison Officer a_flatman@tiscali.co.uk
Gilles Thonet, IEC/CO, gth@iec.ch

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

Dear David,

Thank you for your liaison of 3 March 2017 "Reply to liaison SC 25 N 2670" (received as SC 25 N 2694) and a second liaison dated 25 July 2017 "Update on IEEE P802.3cg 10 Mb/s over single balanced twisted-pair Ethernet" (received as SC 25 N 2732).

At our 11th/14th September 2017 meeting in Bruges, Belgium, ISO/IEC JTC1 SC 25 WG3 discussed the above liaison letters together with 1-pair cabling projects approved by ISO/IEC JTC1 SC 25 WG3 listed below:

1. Information Technology – Generic Cabling for Customer Premises –Part 9906 - 1-Pair channels up to 600 MHz

Technical Report ISO/IEC TR 11801-9906 is intended to define channel specifications in support of 1-pair applications published or under development by IEEE 802.3bp, IEEE 802.3bw, and IEEE 802.3cg.

We noticed that the 1000 m baseline specifications for IEEE P802.3cg have been extended to 100 KHz. We would like to bring to your attention that since the impedance gets complex at such low frequencies, measurements can be uncertain and erroneous. Therefore, we would like to ask you if you could specify the range 100 kHz to 1 MHz as "for information only" during qualification of the channels, while continuing to use the equations for link segment as included in the baseline specifications.

2. Information technology — Generic cabling for customer premises — Amendment to ISO/IEC 11801-6 Distributed building services

This amendment will add an Annex defining cabling channels supporting 1-pair applications up to 1 Gbit/s up to distances up to 15 m, such as Alternative A of IEEE 802.3bp. The intent of this project is to allow up to 15 m drops from a Service Concentration Point (SCP) to a variety of end devices that can best be served with 1-pair cabling.

3. Information technology — Generic cabling for customer premises — 11801 Series Generic 1-pair cabling

The purpose of this project is to develop a generic structured 1-pair balanced cabling infrastructure that will support multiple existing and emerging 1-pair applications in enterprise and industrial environments.

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