



ISO/IEC JTC 1/SC 25 **N 2405A**

Date: 2015-03-08

Replaces: N 2405

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

DOC TYPE: Outgoing Liaison report

TITLE: Liaison from ISO/IEC JTC 1/SC 25 to IEEE 802.3 on remote powering

SOURCE: SC 25/WG3 convener
(ISO/IEC JTC 1/SC 25/WG 3(San Juan/WG 3)071A)

PROJECTs: 25.03.13

STATUS: liaison report approved by SC 25/WG 3
this version replaces N 2405 - that is not uploaded on the ISO system - and includes draft of ISO/IEC TR 29125 edition 2.

ACTION ID: FYI

REQUESTED ACTION: To IEEE 802.3 for consideration to SC 25 for information

DUE DATE: N/A

MEDIUM: Open

No of Pages: 17 (including cover)

DISTRIBUTION: ITTF, JTC 1 Secretariat
P-, L-, O-Members of SC 25,
IEEE 802.3

ISO/IEC JOINT TECHNICAL COMMITTEE 1

SUBCOMMITTEE No.25: INTERCONNECTION OF
INFORMATION TECHNOLOGY EQUIPMENT

58th. Meeting of WG 3
San Juan Puerto Rico, 2015-02 to 06

Date: March 6, 2015

Title: Response from ISO/IEC JTC 1/SC 25 to IEEE 802.3 communications on remote powering distributed in SC 25 as N 2366

To

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CC

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Thank you for the liaison communication from your November 2014 meeting. This was considered at the March 2015 meeting of ISO/IEC JTC1/SC 25/WG 3 with the following responses to your questions:

In response to your request for pair-to-pair resistance unbalance, our members have compiled current installed cabling data that was used to develop representative pair-to-pair DC resistance unbalance expectations for cabling with Classes D through F_A. These data support the ISO/IEC 11801 requirement of 7% unbalance for the channel.

Regarding your request for development timeframe for ISO/IEC TR 29125 edition 2, our estimate is to have a technically complete committee draft by March 2016 and expect to approve publication by September 2016.

Regarding the possible 16% overall system pair-to-pair resistance unbalance with consequent currents as high as 581 mA per conductor, we plan to study this in further detail and revert back to you as we develop a better understanding. Our initial reaction is that the cabling conductors can support currents up to 750 mA per conductor under certain conditions.

ISO/IEC TR 29125 will include modelling for different bundle sizes, cable types, and installation conditions. The assessment procedure planned for the document is to recommend visual inspection of the facility to determine these installation conditions, and use the corresponding installation factors in TR 29125 to develop appropriate temperature rise estimates. TR 29125 also includes mitigation procedures to reduce temperature rise in case the estimates exceed the temperature ratings of the installed cabling.

The main body of our working draft of ISO/IEC TR 29125 Edition 2 is attached for your review (without the annexes which are still under development).

We thank you for your detailed considerations on remote powering and would like to continue our collaboration in support of this important application using balanced twisted pair cabling.

Sincerely,

Dr. Albrecht Oehler

Convenor ISO/IEC JTC1 SC25/WG3