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

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TITLE: Liaison to IEEE 802.3bt on cable heating

SOURCE: Convenor SC 25/WG 3

PROJECT: ISO/IEC TR 29129

STATUS: Liaison reply to liaison IEEE 802.3bt letter in SC25 N2451

ACTION ID: SC 25 to note

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REQUESTED ACTION

MEDIUM: open

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

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Subject: Response to Liaisons from IEEE 802.3bt

Dear David,

We received a status report on IEEE 802.3bt at our Milan meeting from the liaison officer, Alan Flatman. We also reviewed the liaison communications from the March and May 2015 IEEE 802.3bt meetings.

ISO/IEC TR 29125 Edition 2 will shortly be forwarded for national review as a PDTR. We then expect to elevate its status to a DTR at our March 2016 meeting. We hope that you can reference this DTR in 802.3bt as a technically stable document. No technical changes are permitted in a DTR.

Regarding your plan to define a Layer 2 feature to evaluate cabling channel DCR/m, we would suggest the following:

Method 1: Measurement done by the switch and the terminal equipment:

1. Measure cabling channel length using TDR
2. Measure voltage drop from switch to TE and calculate channel DCR
3. Calculate DCR/m to determine the heating effect in cabling channel

Method 2: Automated Infrastructure Management (AIM):

The administration system as described in ISO/IEC 14763-2 may be used to manage the channels in a bundle used to supply power optimally in conjunction with the capabilities of an AIM system according to ISO/IEC 18598 (currently at DIS stage).

We hope that the above input is useful and look forward to working with you.

Sincerely,
Albrecht

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