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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 802.3 on remote powering**
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PROJECT:	**ISO/IEC TR 29125**
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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: Liaison from ISO/IEC JTC 1/SC 25/WG 3 on ISO/IEC TR 29125

Dear David,

thank you for your liaison from the IEEE 802.3 Working Group regarding 802.3bt development (our reference SC 25 N 2514).

At our 29 Feb to 04 Mar meeting in Mexico, we made good progress with ISO/IEC TR 29125 ”Telecommunications cabling requirements for remote powering of terminal equipment”. All expert comments on the working draft have been resolved and implemented in the attached draft.

One issue that needs further clarification from IEEE 802.3 is the disconnection of connecting hardware under load while supporting IEEE 4PPOE. It is not clear whether the individual pairs are powered separately, or from the same power source equipment, with the need for possible disconnection details including:

1) Will power be disconnected concurrently on all 4 pairs?
2) Will power be disconnected separately 2 pairs at a time?
3) Is it possible for one or more conductors to carry the total four pair current for short period during disconnection?

This will impact the IEC 60152-99-002 test procedure under development in IEC/SC 48B that we reference from ISO/IEC TR 29125 for reliability requirements. We kindly request your guidance with associated circuit diagrams that may be used to simulate the disconnection under load.

We have elevated the status of this document to a Proposed Draft Technical Report (PDTR), which will shortly go for national review and vote. In the case where the PDTR received substantial support, we would forecast its approval as a TR early in 2017.

We would be happy to address any requests or questions you may have.

Sincerely,
Albrecht

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