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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 802.3bq on 40GBASE-T return loss requirements
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PROJECT:	ISO/IEC 11801 series
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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 <u>dlaw@hp.com</u>
- CC: Adam Healey, Vice Chair IEEE 802.3, <u>adam.healey@lsi.com</u> Pete Anslow, Secretary, IEEE 802.3, <u>panslow@ciena.com</u> Alan Flatman, Liaison Officer <u>a flatman@tiscali.co.uk</u> Matei Cocimarov, IEC Technical Officer <u>mco@iec.ch</u>

Subject: ISO/IEC 11801 series Class I/II Cabling Return Loss

Dear David,

Please note that we have updated the channel return loss requirements for Class I and Class II cabling. This change has been made in the committee draft of ISO/IEC 11801 series and will be relevant to 40GBASE-T. The new requirements are:

19 dB1-10 MHz24-5log(f) dB10-40 MHz16 dB40-130 MHz35-9log(f) dB130-1000 MHz8 dB1000-2000 MHz

Additionally, due to the close proximity of connectors in short channels, when insertion loss at 1600 MHz \leq 15 dB, the channel return loss from 1600 MHz to 2000 MHz is 8-19log(f/1600).

Sincerely,

Albrecht

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