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Customer Premises Cabling
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Report of the convener of ISO/IEC JTC 1/SC 25/WG 3 to IEEE 8802.3

Following a very productive meeting in Edinburgh, UK on 26-30 September, I am pleased to inform you of the following:

ISO/IEC TR 24750: Assessment and mitigation of installed balanced cabling channels in support of 10GBASE-T.
This is being prepared for circulation as a Proposed Draft Technical Report (PDTR). National comments will be received by 18 January 2006 and will be addressed at our next meeting scheduled for 06-10 February in Buenos Aires.
If successful, it will be released for 3 month vote in its final phase as a DTR. A copy of the PDTR will be released 2005-10-17 at the latest.

IOS/IEC 11801 Edition 2 Amendment 1.1: Including the specification of higher performance Class E and Class F cabling.
An initial version containing channel specifications only has been circulated as a Final Proposed Draft Amendment (FPDAM). National comments will be received by 05 February 2006 and will be addressed at our next meeting scheduled for 06-10 February. If successful, it will be released for 2 month vote in its final phase as a FDAM. A copy of the FPDAM has been released as 25N1096. Link and component requirements will follow in a second ame.

We have agreed a naming scheme for new cabling. New Class E channels will be known as Class E subscript "A" and New Class F channels will be known as Class F subscript "A". Existing Class E and Class F cabling will still be recognised in the normative content of the planned amendment of ISO/IEC 11801 Edition 2.

Thank you for making the latest drafts of 802.3an available. This has enabled us to capture the requirements for 10GBASE-T and expedite the delivery of our cabling specifications. In reviewing 802.3an D2.3, we have the following observations:

1. 802.3an definitions of ELFEXT and AELFEXT are different to IEC and ISO/IEC specifications.
802.3an definitions subtract IL of the disturbed pair, whereas IEC and ISO/IEC cabling specifications subtract IL of the disturbing pair. This difference in approach may not be a problem if adjacent channels are equal in length but may need to be reconciled if they are different. (see also SC 25 N 1004 for this matter.)

2. Averaging dB values to determine 4-pair average PSANEXT and PSAELFEXT limits may be a useful figure of merit but is mathematically incorrect.

We are aware of your timescales to complete the development of 802.3an and sincerely hope that it will be possible to reference both of our planned deliverables mentioned above. You should be able to do so as soon as the text of DTR and FDAM are available, this should be end of February / beginning of March 2006 as no technically changes and only very limited editorial changes are possible as soon as the documents have reached these stages.

In the meantime, we would welcome any input you may have on our current drafts.

Power over Ethernet
We have started a rather complicated process to provide you with input in this matter with SC 25/WG 3 N 764 that has already been forwarded to you.

Kind regards
Walter von Pattay
Convener of ISO/IEC JTC 1/SC 25/WG 3