



## TR-42 – Engineering Committee on User Premises Telecommunications Infrastructure

**Date:** October 8, 2004

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**From:** Bob Jensen, Chair TIA TR-42 (robert.jensen@flukenetworks.com)

**Subject:** TR-42 Liaison to IEEE 802.3 on Augmented and Installed Category 6 Cabling

The purpose of this letter is to inform IEEE 802.3an of the status of our development work on augmented Category 6 cabling as well as a timeline for publication of the standard.

At our last meeting in Houston, the week of October 4<sup>th</sup>, 2004, significant progress was achieved in the development of a first draft. A number of contributions have been presented on return loss for worst case topologies. These were used to ascertain performance limits for components, permanent links and channels. Also, a reference test procedure for alien crosstalk is included in the first draft. This reference test procedure is consistent with the methodology developed in the IEEE 802.3an cabling ad-hoc group.

Enclosed for your information and review is draft 1.1 of addendum 10 to the TIA/EIA-568-B.2 standard (augmented category 6 cabling). This is a working document under development. An interim meeting is scheduled for December 7<sup>th</sup> and 8<sup>th</sup> to work on completing the document. We anticipate having a document ready for TIA committee ballot in February 2005. We are working towards having a final standard approved for publication by June 2006, which is coincident with the development schedule for IEEE 802.3 10GBASE-T.

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We welcome your input on the parameters required in the standard. One of the parameters that we are working on is the alien FEXT loss performance for a worst case configuration with dissimilar link lengths. It is our understanding that the AFEXT loss performance under these conditions is important to establish the power back-off levels at the transmitter.

In addition, please find draft 1.1a of TSB-155 for installed category 6 cabling attached for your review and comment.

We look forward to work closely with the IEEE 802.3an task force in coordinating the development effort in support of the 10GBASE-T standard.

*Attachments:*

- 1. Draft 1.1 of ANSI/TIA/EIA-568-B.2 Addendum 10*
  - 2. Draft 1.1a of TSB-155*
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