

**IEEE**  
**802 IEEE 802.3 CSMA/CD (Ethernet) Working Group**

March 17, 2005

To: Robert Jensen; Chair, TIA TR42 (robert.jensen@flukenetworks.com)  
Cc: Chris Di Minico; Liaison, IEEE 802.3 (cdiminico@ieee.org)  
Valerie Rybinski; Liaison, TIA TR42 (vrybinski@hcm.hitachi.com)  
Paul Nikolich; Chair, IEEE 802 (p.nikolich@ieee.org)  
Wael Diab; Recording Secretary, IEEE 802.3 (wdiab@cisco.com)  
Brad Booth; Chair, IEEE P802.3an Task Force (bbooth@ieee.org)

Subject: IEEE Liaison letter response for update on PS AELFEXT limits

Thank you for your continued support in assisting in the development of the 10GBASE-T link segment specifications.

In response to your request for additional background information on alien ELFEXT specifications please find attached the 802.3an Draft 2.0 subclause 55.7 (10GBASE-T link segment characteristics). The draft includes an explicit equation for the derivation of PS AELFEXT exhibiting both a length and insertion loss dependency as well as specifications for an average alien crosstalk of the 4-pairs for both PS AELFEXT and PS ANEXT. Please note that the alien crosstalk limits are used to establish the minimum requirements for the 10GBASE-T link segment and are not intended to impose limits on the achievable alien crosstalk cabling performance.

Additionally, we are very interested in measurement data for the expected dB levels of achievable alien crosstalk mitigation for installed category 6 cabling (e.g., unbundling, the use of ScTP or augmented category 6 patch cords, interconnect versus cross-connect, connector replacement, etc..).

Sincerely,

Robert M. Grow  
Chair, IEEE 802.3 Working Group