

## **NetClear GT2 and GT3 Testing Requirements to TSB-155 for 10GBASE-T**

TIA TSB-155 describes additional guidelines to support the IEEE 802.3an 10GBASE-T standard for using the installed base of category 6 cabling. This TSB outlines the additional requirements of alien crosstalk coupling between cables and extended frequency transmission performance up to 500 MHz to support 10G. This TSB does not change any requirements for Category 6 cabling systems beyond those outlined in ANSI/TIA/EIA-568B.2-1.

If NetClear GT2 or GT3 Category 6 cabling systems are to be used to transmit 10GBASE-T signals, the field-test guidelines outlined in this TSB must be followed. This includes testing all of the internal electrical specifications and the evaluation of alien crosstalk ( required for the 10G application) using a NetClear approved Level IIIe field tester.

TSB-155 provides strategies for the testing of alien crosstalk. These strategies provide the basis for the development of a test plan necessary to access compliance to this TSB. Knowledge of the installation is required to choose victim and disturber links or channels. Victim and disturber links typically reside within the same cable bundle or adjacent ports on a patch panel.

In some cases, it may be necessary to mitigate alien crosstalk. TSB-155 allows and identifies mitigation procedures that may be applied to channels with insufficient alien crosstalk margin.

Moves, adds and changes may require re-certification of the affected channels.