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November 02, 2000

To: T10 Technical Committee
From: Bill Galloway
Subj: Retain Training Information Correction

The current way that training information is retained has a problem if a SCSI device changes roles between initiator and target. While a SCSI device is an initiator, the training pattern is used to deskew data relative to the REQ signal. These saved training values are not meaningful if the SCSI device changes roles to a target. For targets, the training pattern is used to deskew the data relative to the ACK signal. The problem can be fixed by adding at the following sentence to 10.8.4.2.1.

10.8.4.2.1 Training pattern overview

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If the retain training information is enabled a training pattern shall be transferred at the start of the first DT data phase for each data transfer direction after the retain training information is enabled. The SCSI device shall save training configuration values for each I_T nexus that has negotiated to retain training information. The SCSI device shall use the saved training configuration values for all paced transfers. The target may retrain an I_T nexus if it determines the training configuration values are invalid, without having to renegotiate the retain training information protocol option. The target shall retrain if the saved training configuration values were saved while the SCSI device was an initiator.