

To: T10 Technical Committee
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Subject: T10/05-280 SAT: COMRESET Notification

Revision History

Revision 0 - Initial draft of document

Related Documents

SAT (T10/1711-D) Revision 4

1 Overview

This proposal addresses the situation in which an ATA device controller by SATL undergoes a COMRESET operation. Depending on the device this may result in settings on the device being reset to their default operations without notification to an application client that may have changed the default settings or running settings of the device.

2 Document Changes

2.1 Changes to SAT (T10/1711-D)

Change section 5.2 to read as follows

5.2 Unit Attention

The SATL shall emulate reporting of UNIT ATTENTION conditions in such a manner that asynchronous conditions that occur on the ATA interface are reported with their corresponding UNIT ATTENTION through the SCSI command model. [A SATL that detects a COMRESET for an serial ATA device or initiates a soft-reset of any ATA device shall report a UNIT ATTENTION condition with an additional sense code of PARAMETERS CHANGED. The method that a SATL uses for detecting a COMRESET on the serial ATA connection is vendor-specific.](#)

The SATL shall report UNIT ATTENTION conditions in accordance with SAM-3. In particular, the SATL shall report UNIT ATTENTION conditions even when the SCSI command being processed results in no action on the ATA interface (e.g. a READ(10) command with a transfer length of zero).

When a SATL may be accessed by multiple I_T nexuses (e.g. when the SATL receives SCSI commands through a SCSI transport), the SATL shall report pending UNIT ATTENTION conditions to all applicable SCSI initiator ports.