To: T10 Technical Committee
From: Jeff Wolford, HP (jeff.wolford@hp.com)
Date: 02 July 2007
Subject: 07-298r0 SAT-2 Error Translation mapping for ATA IDNF

Revision History
Revision 0 (02 July 2007) first revision

Related Documents
SAT2r0 - SCSI / ATA Translation – 2 (SAT-2) revision 0
ATA8r4a – ATA 8-ACS revision 4a

Overview
The current SAT-2 translation definition for a ATA IDNF error (ATA Status Register = ERR and ATA Error Register = IDNF) is a Sense key of MEDIUM ERROR with additional Sense code of RECORD NOT FOUND. ATA devices more generally use the IDNF error to indicate the requested LBA is out of range and so a more appropriate sense key of ILLEGAL REQUEST and additional sense code of LOGICAL BLOCK ADDRESS OUT OF RANGE.

Suggested Changes
Change the ERR / IDNF Sense key / Additional Sense code entry in Table 84 from ~~MEDIUM ERROR and RECORD NOT FOUND~~ to ILLEGAL REQUEST and LOGICAL BLOCK ADDRESS OUT OF RANGE.

Add the following footnote below table 84:

SATLs compliant with previous versions of this standard returned a sense key of MEDIUM ERROR and an additional sense code of RECORD NOT FOUND