

To: T10 Technical Committee
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Date: October 23, 2002
Subject: T10/02-437r0, SATA 1.0e Support

Revision History

Revision 0 (October 23, 2002) first revision

Related Documents

SAS-r02b – Serial Attached SCSI revision 02b.

Overview

This is a proposal to extend SAS to support SATA 1.0e, “SATA-II extensions to SATA 1.0” because the specification is now available in the public domain. Most, but not all of the extensions make sense for SAS. This proposal recommends SAS be extended to support SATA 1.0e features as follows:

Feature	Supported in SAS?
Native Command Queuing	Yes
Extended Differential Voltages to support backplanes	Yes, per SAS Phy
Non 512-byte sector sizes	Yes
First Party DMA	Yes
Enclosure Services	(TBD)
Staggered Device Spin-Up	Yes
Drive Activity Indication	Yes
Drive Hot-Plug improvements	Yes
Power Management improvements - intended for laptops.	No

Suggested Changes

Include above table defining features of SATA 1.0e supported in SAS as Annex E.2.

Add text to the description of the SATA VERSION field in Table 100 to read:
SATA 1.0e (SATA-II extensions to SATA 1.0) is reported as 01h.