To: T10 Technical Committee
From: Robert Sheffield, Intel (robert.l.sheffield@intel.com)
Date: 8 November 2004
Subject: 04-391r0 SAT: Remaining Work Items

Revision history
Revision 0 (8 November 2004) First revision

Related documents
SAT-r01 - SCSI / ATA Translation revision 1

Overview

There are several remaining work items yet to be done to complete the SAT standard. This document briefly describes each work item, with the intent that any of the SAT WG contributors can volunteer to draft proposals to provide the needed text related to each of these items..

Table 1 — Remaining SAT work items

Item	Description	Owner	Status
1)	SMART section. Clause 11 has some skeleton text, but this section needs much elaboration to adequately address the translation.	TBD	Skeleton
2)	ATAPI Translations. Clause 13, "Translation for ATAPI devices" is currently a place-holder for this information. This section will probably expand to at least two sections, (ATAPI translations for Primary SCSI commands, and ATAPI translations for SCSI Block Commands), and may require an dedicated architecture section as well.	TBD	Placeholder
3)	Sense Data and Error Reporting. Clause 12 currently is a place-holder for error reporting. It contains general templates for CDBs and data structures, which will be deleted when this clause is completed. Many of the required ASC/ASCQ responses are specified in-line in the main text, but it is likely there is general error reporting translation that needs to be specified, but is not so directly tied to the defined command translations to warrant putting the descriptions in the command translation subclauses themselves. This section will cover any needed sense reporting translation not covered in the command translation clauses. ATAPI may need special treatment here, since in most cases the ATAPI translation will be to forward the status reported by the ATAPI device.	TBD	Placeholder
4)	Data Protection support. This will impact the READ and WRITE commands. It will make use of the ATA capability to support logial sector sizes greater than 512-bytes, and will direct the Data Protection elements defined in SBC-2 to be optionally implemented in the SATL.	Bob Sheffield	Editor's note
5)	Mode pages and Log pages. Clause 10 defines some mode page and log page translations. The task remaining is to take a thorough look at the defined SPC-3 and SBC-2 mode and log pages to determine what else needs specific translation in SAT. There also may be a need to define a SAT-specific mode page.		
6)	Need an informative annex to describe translation of legacy "Bus Reset".	TBD	Earlier suggestion