

Accredited Standards Committee*
InterNational Committee for Information Technology Standards (INCITS)

Doc. No.: T10/05-418r0

Date: November 9, 2005

Reply to: John Lohmeyer

To: T10 Membership
From: Mark Overby
Subject: SAT Working Group Meeting -- November 8, 2005
Austin, TX

Agenda

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2. Approval of Agenda
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4. Old Business
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 - 4.2 SAT- SEND DIAGNOSTIC command and Self-Test Results (05-245r1) [Bellamy]
5. New Business
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Results of Meeting

1. Opening Remarks

John Lohmeyer called the meeting to order at 0900 November 8, 2005. John thanked Kevin Marks of Dell for hosting the meeting.

2. Approval of Agenda

The draft agenda was approved without revision.

3. Attendance and Membership

Attendance at working group meetings does not count toward minimum attendance requirements for T10 membership. Working group meetings are open to any person or organization directly and materially affected by T10's scope of work. The following people attended the meeting:

Name	S	Organization
Mr. Ron Roberts	A	Broadcom Corp.
Mr. Kevin Marks	P	Dell, Inc.
Mr. Kenneth Hirata	A	Emulex
Mr. Ralph O. Weber	P	ENDL Texas
Mr. Wayne Bellamy	V	Hewlett Packard Co.
Mr. Dan Colegrove	P	Hitachi Global Storage Tech.
Mrs. Vicky Duerk	V	Intel
Mr. Robert Sheffield	P	Intel Corp.
Mr. Robert Payne	P	Iomega Corp.
Mr. Steve Johnson	V	LSI Logic Corp.
Mr. John Lohmeyer	P	LSI Logic Corp.
Mr. Avraham Shimor	P	M-Systems
Mr. Greg Elkins	V	Marvell Semiconductor
Mr. Mark Evans	P	Maxtor Corp.
Mr. Mark Overby	P	Nvidia Corp.
Mr. William Martin	P	Sierra Logic, Inc.
Mr. Curtis Stevens	P	Western Digital
Mr. Rich Ramos	P	Xyratex

18 People Present

Status Key: P - Principal
 A,A# - Alternate
 AV - Advisory Member
 L - Liaison
 V - Visitor

4. Old Business

4.1 SAT Work Items List (04-391r9) [Sheffield]

Bob Sheffield reviewed the current work items list. He noted that the only two remaining critical items were the revision of test unit ready and the send diagnostic proposal. A discussion was held and it was suggested that the last two proposals be recommended for inclusion in December (assuming acceptability and the requisite votes), the plenary approves the recommendations in January, and then John Lohmeyer can send out the letter ballot as quickly following the January plenary as Bob can get him a draft.

4.2 SAT - SEND DIAGNOSTIC Command and Self Test Results (05-245r1) [Bellamy]

Wayne Bellamy reviewed the latest revision of his proposal to map SEND DIAGNOSTIC into ATA actions. Wayne reviewed the revision history of the proposal to remind the attendees of the changes.

Ralph Weber noted that the entries in the table were rapidly approaching a length that makes the table too large. Ralph also noted the use of quotation marks in the document and that they should be removed. Bob Sheffield also noted that the numeric versions of the ATA opcodes were not necessary and should be removed. Mark Overby noted that the way the description of the translation of the self-test execution was difficult to understand. Kevin Marks and Ralph both suggested that the name used for the field from ATA be used here to create the mapping, this would eliminate the necessity of explaining the field mapping in the ATA status byte. Wayne agreed to make that change.

Bill Martin asked for some additional wording around the default self test. Mark pointed out that using execute device diagnostics has some severe side effects. A lengthy discussion was held about this point and the fact that further text would be needed in order to make this work properly. Bill suggested that in the event that execute device diagnostics should be undesired, an alternative would be to read the first LBA, the last LBA, and some number of LBA inbetween.

Wayne agreed to revise his proposal and bring in a new version and the next meeting.

5. New Business

5.1 SAT - MOST RECENT TEMPERATURE READING for Informational Exceptions log page (05-385r0) [Bellamy]

Wayne Bellamy reviewed his proposal for reporting a temperature from an ATA device and mapping that information into the informational exceptions log page. Bob Sheffield noted that the may for using SCT could be a shall. Mark Overby noted that because SCT was early in adoption and there are other ways of getting the information, a shall would be premature. Steve Johnson suggested a should would work and all agreed that would be appropriate. Wayne made that change. Wayne Bellamy moved, Curtis Stevens seconding, that 05-385r0, as revised, be recommended for inclusion into SAT. The motion passed with unanimous consent.

6. Review of (SAT) Working Draft

Bob Sheffield led a review of revision 6 of the working draft. Bob noted that all of the editors notes had now been, or were in the process of being addressed. Wayne Bellamy noted some differences between his proposal for the error mapping that had been voted for inclusion and what was in the draft. Bob made some changes to make this more in line with what was in the proposal and Wayne agreed this reflected the proposal correctly. Bob reviewed the editor's notes with the current status of the resolutions of those notes.

There was discussion about if the standard needs to have any discussion of single target / single LUN versus single target / multiple LUN mappings of ATA devices. The general feeling of the attendees was that the standard need not address this, but perhaps an informative annex in SAT-2 could be useful.

Bob then led a page turn review of the document and asked for feedback from the attendees on any other concerns they have with the current revision of the SAT document.

7. Review of Recommendations

The following items were recommended to the plenary for inclusion into SAT:

October WG Meeting:
05-364r1 SAT comparison of SCSI and ATA queuing
05-359r2 SAT: Control mode page translation

November WG Meeting:
05-385r1 SAT - MOST RECENT TEMPERATURE READING for Informational Exceptions Log Page

8. Meeting Schedule

A SAT Working Group meeting is scheduled for:

Monday December 12, 2005 from 9:00 a.m. to 5:00 p.m. in Las Vegas, NV at the Golden Nugget, hosted by HGST

9. Adjournment

The meeting was adjourned at 1700 November 8, 2005.