

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

Doc. No.: T10/05-095r0

Date: March 8, 2005

Reply to: John Lohmeyer

To: T10 Membership
From: Mark Evans and John Lohmeyer
Subject: SAT Working Group -- March 8, 2005
Dana Point, CA

Agenda

1. Opening Remarks
2. Approval of Agenda
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4. Old Business
 - 4.1 ATA Command Pass-Through (04-262r8) [Stevens]
 - 4.2 SAT: Remaining Work Items (04-391r2) [Sheffield]
 - 4.3 SAT ATA Protocol Specific Mode Page Proposal (04-397r2) [Overby]
 - 4.4 Comments re Linux issues (email from Jeff Garzik)
5. New Business
 - 5.1 SAT REQUEST SENSE Correction Proposal (05-109r0) [Overby]
6. Review of SAT Working Draft
7. Review of Recommendations
8. Meeting Schedule
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Results of Meeting

1. Opening Remarks

John Lohmeyer called the meeting to order at 9:00 PM Tuesday, March 8, 2005. He thanked Skip Jones of QLogic for hosting the meeting. As usual, the people present introduced themselves.

2. Approval of Agenda

The draft agenda was approved with no changes.

No items were added or revised during the course of the meeting.

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:

*Operating under the procedures of The American National Standards Institute.
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SCSI/ATA Translation Working Group Attendance Report - March 2005

Name	S	Organization
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. Robert Sheffield	P	Intel Corp.
Mr. David Hawks	P	Iomega Corp.
Mr. Steve Johnson	V	LSI Logic Corp.
Mr. John Lohmeyer	P	LSI Logic Corp.
Mr. Mark Evans	P	Maxtor Corp.
Mr. Jeff Mastro	A	Microsoft Corp.
Mr. Mark Overby	P	Nvidia Corp.
Mr. Greg Elkins	V	QLogic Corp.
Mr. William Martin	P	Sierra Logic, Inc.
Mr. Curtis Stevens	P	Western Digital

14 People Present

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

4. Old Business

4.1 ATA Command Pass-Through (04-262r8) [Stevens]

Curtis Stevens reviewed the latest draft of his proposal including the minor changes resulting from the last working group meeting.

Curtis Stevens moved that 04-262r8 be recommend for inclusion in SAT. Mark Overby seconded the motion. The motion passed 9:0:1.

4.2 SAT: Remaining Work Items (04-391r2) [Sheffield]

Bob reviewed the latest revision of the document containing the list he is maintaining that itemizes the known work items to be completed for the project and the status of those items. Bob reported that he will continue to maintain this list until the project is complete.

4.3 SAT ATA Protocol Specific Mode Page Proposal (04-397r2) [Overby]

Mark Overby reviewed revision 2 of his proposal for a protocol specific mode subpage for SAT.

This proposal includes a subpage for parallel ATA devices but deleted the subpage for serial ATA devices because there was no standard way to retrieve some of the proposed information (e.g., SSTATUS, SCONTROL, and SER-ROR that should be passed from a SATA device to an application for phy control).

Mark said that he will make a proposal for SAS for an SMP function to send and receive this information in a standard manner. He reported that this proposal was too late for SAS 1.1 and would have to be for SAS 2. Mark said

that he will also make a new proposal for the subpage for serial ATA devices stating how this information is obtained is vendor specific with a note stating that the method will be available via a standard method in a future SAS standard.

Mark Overby moved that 04-397r3 (04-397r2 as revised) be recommend for inclusion in SAT. Bob Sheffield seconded the motion. In the absence of any objections, the motion passed unanimously.

4.4 Comments re Linux issues (email from Jeff Garzik)

Bob Sheffield spoke communicated with Jeff Garzik regarding the need to use READ CAPACITY(16). Because it is possible to have devices greater than 2TB, Bob agreed to make a proposal to include this command as optional in SAT.

5. New Business

5.1 SAT REQUEST SENSE Correction Proposal (05-109r0) [Overby]

Mark Overby presented revision 0 of his proposal to modify the REQUEST SENSE clause of the SAT draft.

During the discussion it was identified that the SATL must remember the Start/Stop condition of the end devices. Mark Evans will add this requirement in his modifications of the START STOP UNIT command clause of the SAT draft.

Mark agreed to make a new revision of his proposal including input from the working group.

6. Review of SAT Working Draft

Bob continued review of the latest revision of his draft (SAT-r2).

The group discussed adding descriptions for more of the (16) commands, including READ(16) and WRITE(16). During this discussion, it was decided that the references to several of the commands in Table 5 - Summary of SCSI / ATA command mapping should be changed to "not defined" from "not supported". This led to a review of all of these commands.

7. Review of Recommendations

Mark Evans noted that the working group made the following recommendation to the T10 plenary:

For inclusion in SAT:

SAT ATA Command Pass-Through (04-262r8) [Stevens]
SAT ATA Protocol Specific Mode Page Proposal (04-397r3) [Overby]

8. Meeting Schedule

SAT Working Group meetings are scheduled for:

Monday, April 18, 2005 from 9:00 AM to 5:00 PM in Longmont, CO, contingent on Seagate being able to host the meeting (Steve Johnson will speak with Jim Hatfield to see if he can accommodate this date).

Tuesday, May 2, 2005 from 9:00 AM to 1:00 PM in Oklahoma City, OK at the Sheraton Oklahoma City Hotel (800-325-3535), hosted by Fujitsu.

Teleconference calls are scheduled for:

Monday, March 28, 2005 starting at 9:00 AM. Bob Sheffield will post an announcement to the T10 reflector.

9. Adjournment

The meeting was adjourned at 12:25 PM on Tuesday, March 8, 2005.