

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

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Reply to: John Lohmeyer

To: T10 Membership
From: Mark Evans and John Lohmeyer
Subject: SAT Working Group -- August 26th and 27th, 2004
Boulder, CO

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Old Business
 - 4.1 SAT: SCSI / ATA Translation Initial Draft (04-196r0) [Sheffield]
 - 4.2 SAT: ATA Pass-through commands [Livaccari]
 - 4.3 SAT INQUIRY contents (04-218r3) [Elliott]
 - 4.4 SAT SPC-3 ATA Information VPD page (04-219r2) [Elliott]
5. New Business
 - 5.1 SAT Command Mapping Format (04-260r1) [Stevens]
 - 5.2 ATA Command Pass-Through (04-262r2) [Stevens]
 - 5.3 New revision of SAT (SAT-r00) [Sheffield]
6. Review of Recommendations
7. Meeting Schedule
8. Adjournment

Results of Meeting

1. Opening Remarks

Steve Johnson called the meeting to order at 1:15 PM Wednesday, August 26, 2004. He thanked Mark Evans of Maxtor Corporation for hosting the meeting. As usual, the people present introduced themselves.

Bob Sheffield requested that all reflector traffic having to do with SCSI to ATA translation have the letters "SAT" at the beginning of the title (e.g., "SAT: pass-through comments"). John Lohmeyer requested that all proposals for the SAT project have the letters "SAT" at the beginning of the title (e.g., "SAT, pass-through commands").

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:

Name	S	Organization
Mr. Kyle Sterling	V	Adaptec, Inc.
Dr. Raghu Sastry	V	Agilent Tech
Mr. Kenneth Hirata	A	Emulex
Mr. Curtis Nottberg	V	Emulex
Mr. Al Rickay	V	Emulex
Mr. Ralph O. Weber	P	ENDL Texas
Mr. Mike Fitzpatrick	P	Fujitsu
Mr. Wayne Bellamy	V	Hewlett Packard Co.
Mr. Dan Colegrove	P	Hitachi Global Storage
Mr. Steve Livaccari	V	IBM Corp.
Mr. Robert Sheffield	P	Intel Corp.
Mr. Nathan Marushak	V	Intel Corporation
Mr. Samantha Ranaweera	V	LSI Logic Corp
Mr. John Lohmeyer	P	LSI Logic Corp.
Mr. Steve Johnson	V	LSI Logic Corp.
Mr. Mark Evans	P	Maxtor Corp.
Mr. Lance Flake	V	Maxtor Corp.
Mr. Greg Elkins	V	QLogic Corp.
Mr. Jim Hatfield	V	Seagate Technology
Mr. Curtis Stevens	AV	Western Digital

20 People Present

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

4. Old Business

4.1 SAT: SCSI / ATA Translation Initial Draft (04-196r0) [Sheffield]

Since the first draft of the project (SAT-r01) that evolved from 04-196 is now available, all discussion of this topic will be in that agenda item (see 5.3). This item will be deleted from future agendas.

4.2 SAT: ATA Pass-through commands [Livaccari]

Steve Livaccari deferred his comments to 04-262 (see 5.2). This item will be removed from future agendas.

4.3 SAT INQUIRY contents (04-218r3) [Elliott]

In Rob Elliott's absence, Wayne Bellamy reviewed revision 3 of this proposal about data that is returned for an INQUIRY command. There was much discussion about separating specifications for devices implementing the

Packet Command feature set (a.k.a., ATAPI) devices from specifications from devices not implementing the PACKET command feature set (i.e., ATA devices) throughout SAT proposals and the project draft.

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

4.4 SAT SPC-3 ATA Information VPD page (04-219r2) [Elliott]

In Rob Elliott's absence, Wayne Bellamy reviewed revision 2 of this proposal about how SCSI to ATA translators should return a VPD page containing the contents of the power-on signature and the results of an IDENTIFY DEVICE or IDENTIFY PACKET DEVICE command returned by the ATA device.

Wayne agreed to make a new revision of his proposal including input from the working group. Wayne Bellamy moved and Curtis Stevens seconded that 04-219r3 (r2 as revised) be recommended for inclusion in SAT. After significant discussion Wayne agreed to withdraw his motion. Wayne will make a new revision of the proposal and present it to the working group.

5. New Business

5.1 SAT Command Mapping Format (04-260r1) [Stevens]

Curtis Stevens reviewed revision 1 of his proposal on how to present a mapping from SCSI CDBs to an ATA/ATAPI-7 device. Most of the discussion was about the format of how the mapping should be described in the draft document.

Curtis agreed to make a new revision of his proposal including input from the working group. Curtis brought in a new revision on Friday morning.

Curtis Stevens moved and Steve Johnson seconded that the format described in 04-260r3 shall be used as the format to describe translations for commands. The motion passed 10:0:0.

5.2 ATA Command Pass-Through (04-262r2) [Stevens]

Curtis Stevens reviewed revision 2 of his proposal to define new SCSI CDBs for issuing ATA commands and sense information to report completion status. There was much discussion about the length of the long versions of the new CDBs. Options included: rearranging the information such that a 16-byte CDB could be used, defining a service action, and defining a variable length CDB.

Curtis agreed to speak with O/S folks and make a new revision of his proposal including input from the working group.

5.3 New revision of SAT (SAT-r00) [Sheffield]

Bob Sheffield began by reviewing change bars and editor's notes in the draft.

After much discussion about definitions for devices, the following straw pole was taken:

- a) specify in both the scope and the definitions clause that this standard does not describe removable media devices that do not support the Packet Command feature set;
- b) specify in only the scope that this standard does not describe removable media devices that do not support the Packet Command feature set; or
- c) specify in the scope and reference the scope in the definitions clause that this standard does not describe removable media devices that do not support the Packet Command feature set.

The results were: (a) = 5, (b) = 6, (c) = 2

The pole was taken again for only items (a) and (b).

The results were (a) = 5, (b) =8.

Bob said that, based on the results of the straw pole, he will implement item (b).

6. Review of Recommendations

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

none

7. Meeting Schedule

SAT Working Group meetings are scheduled for:

Tuesday, September 14, 2004 commencing at 9:00 a.m. in Nashua, NH at the Crowne Plaza Hotel (603-886-1200), hosted by Hitachi Cable Manchester.

Teleconference calls may be announced on the T10 reflector as needed.

8. Adjournment

The meeting was adjourned at 12:00 PM on Friday, August 27, 2004.