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

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Date:   July 13, 2006
Reply to:   John Lohmeyer

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To:           T10 Membership
From:       Mark A. Overby
Subject:    SAT Working Group Meeting -- July 11, 2006
                Colorado Springs, CO

# Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Old Business
    4.1   SAT Revision 8 letter ballot comment resolution (06-121r1) [Sheffield]
    4.2   SAT - Block Mapping Issues (06-216r0) [Sheffield]
    4.3   SAT - Device Server Password Security (06-070r0) [Stevens]
5. New Business
    5.1   SAT - ATA PASS-THROUGH additional sense code and other clarifications (06-291r1) [Sheffield]
6. Review of Recommendations
7. Meeting Schedule   Next Meeting Announcement   Next Meeting Map
8. Adjournment

# Results of Meeting

## 1.   Opening Remarks

John Lohmeyer called the meeting to order at 0900 July 11, 2006. John thanked LSI Logic for hosting the meeting.

## 2.   Approval of Agenda

The draft agenda was approved as revised by unanimous consent. Items that were approved at a previous meeting were removed from the agenda.

## 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:

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                 Name                S        Organization
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Mr. Chris Fore                       P  Adaptec, Inc.
Mr. Kevin Marks                      P  Dell, Inc.
Mr. Curtis Nottberg                  V  Emulex
Mr. Ralph O. Weber                   P  ENDL Texas
Mr. Wayne Bellamy                    V  Hewlett Packard Co.
Mr. Robert Sheffield                 P  Intel Corp.
Mr. John Geldman                     P  Lexar Media, Inc.
Mr. John Lohmeyer                    P  LSI Logic Corp.
Mr. Owen Parry                       V  LSI Logic Corp.
Mr. Avraham Shimor                   P  M-Systems
Mr. Mark Overby                      P  Nvidia Corp.
Mr. Jim Hatfield                     V  Seagate Technology
Mr. Gerald Houlder                   P  Seagate Technology
Mr. William Martin                   P  Sierra Logic, Inc.
Mr. Curtis Stevens                   P  Western Digital
Mr. Rich Ramos                       P  Xyratex

16 People Present

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

### 4.1  SAT Letter Ballot Comments Resolution (06-121r1) [Sheffield]

Letter ballot comment resolution was handled by the discussion of the documents in other agenda items.

### 4.2  SAT - Block Mapping Issues (06-216r1) [Sheffield]

Bob Sheffield reviewed the latest changes to the block mapping proposal that introduces the two mapping models.

Jim Hatfield noted that the definition of ATA Maximum LBA is not resolved because T13 hasn't decided if the table is correct or if the text is correct. There was discussion about if this could be fixed in public review or if this needs to hold up SAT. Ralph Weber consulted with John Lohmeyer and John stated that this should not hold SAT and if the definition ended up conflicting with T13 fix it in public review.

Bill Martin noted that an accepted review comment about mode parameter block header allowing for a reduction in the number of logical blocks had been removed. The consensus of the group was that the accepted review comment making this unspecified was correct. Bob made the change.

During discussion of the START STOP UNIT command, a lengthy discussion was held about if STANDBY or STANDBY IMMEDIATE was the appropriate ATA command to enter the SCSI stopped state. There was lengthy discussion about what each of the ATA power states actually mean. It was noted that in ATA there is no requirement or mention that rotating media be rotating in any of the power states. There was discussion that this was true in SCSI as well. There are assumptions about each power state, but no hard rules. Curtis Stevens noted that STANDBY IMMEDIATE doesn't have the same "immediate" behavior that SCSI defines. The ATA immediate com-

mand means that the drive immediately goes into the standby state and once in that state goes to command completion. After mulling on this, the WG agreed that STANDBY IMMEDIATE was the correct command to use.

Bob asked for a straw poll on BYTCHK. Option 1 is to use what is defined in this document. Option 2 is to state that if BYTCHK is set to one and FPDMA not supported, then check condition. Option 3 is to allow bytchk to be 1 independent of FPDMA, but use FPDMA if supported. 7 were in favor of option 3, 0 in favor option 2, and 7 were in favor of option 3.

Curtis Stevens moved, Jim Hatfield seconded, that option 1 from the straw poll be adopted. The motion passed with 8 ayes, 3 nays, and 2 abstentions.

Numerous editorial comments were made for Bob to include into the proposed resolution document.

Bob Sheffield moved, Jerry Houlder seconded, that 06-216r2 be accepted as the resolution for all letter ballot comments for Clause 9 of SAT. The motion passed by unanimous consent.

### 4.3  SAT - Device Server Password Security (06-070r0) [Stevens]

Due to a lack of time this item was deferred to the next meeting.

## 5.  New Business

### 5.1  SAT - ATA PASS-THROUGH additional sense code and other clarifications (06-291r1) [Sheffield]

Bob Sheffield reviewed the document with clarifications for ATA pass-through to resolve various letter ballot comments.

Discussion occurred on the meaning of the STPSIU definition and what it really meant and how people to go to find other information about that. After a back and forth, it was decided that an e.g. pointing to the USB bulk-only transport specification would resolve the concerns.

A further lengthy discussion ensued around the PATA Control mode page. This document changed it to be a may instead of a shall support (for PATA environments). There was significant discussion about requiring a mode page in general. After the lengthy discussion the decision was to leave it as a shall.

Bob Sheffield moved, Mark Overby seconded, that 06-291r1 be accepted as the resolution for comments in the SAT-specific clause of SAT. The motion passed by unanimous consent.

## 6.  Review of Recommendations

There were no recommendations made to the plenary.

## 7.  Meeting Schedule

SAT Working Group meetings are scheduled for:

Monday August 21, 2006 from 9:00 a.m. to 5:00 p.m. in the Redmond, WA area, hosted by Microsoft. Details will be posted to the T10 and T13 reflectors as soon as they are available.

Tuesday September 12, 2006 from 9:00 a.m. to 6:00 p.m. in Nashua, NH at the Crowne Plaza, hosted by Hitachi Cable Manchester

## 8.  Adjournment

The meeting was adjourned at 1803 July 11, 2006.