

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

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Date: May 8, 2007

Reply to: John Lohmeyer

To: T10 Membership
From: Mark Overby and John Lohmeyer
Subject: SAT Working Group Meeting -- May 8, 2007
Bellevue, WA

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Old Business
 - 4.1 SAT-2: Work Items and Open Issues List (06-497) [Overby]
 - 4.2 SAT2 Translation of SECURITY PROTOCOL IN/OUT (07-074) [Hatfield]
5. New Business
 - 5.1 SAT2 - Fix command summary for SEND DIAGNOSTIC (07-146) [Sheffield]
 - 5.2 SAT2 - Use something other than 'comprises' (07-148) [Sheffield]
 - 5.3 SAT-2 WRITE LONG to WRITE UNCORRECTABLE EXT (07-200) [Elliott and Wolford]
 - 5.4 SAT2 Translation of large block sizes (07-201) [Hatfield and Elliott]
 - 5.5 SAT-2 On-disk data format [Wolford and Elliott]
6. Review of SAT-2 working draft [Overby]
7. Review of Recommendations
8. Meeting Schedule
9. Adjournment

Results of Meeting

1. Opening Remarks

John Lohmeyer called the meeting to order at 9:14 a.m. Tuesday, May 8, 2007. He thanked Bob Griswold of Microsoft for hosting the meeting. As usual, the people present introduced themselves.

John noted that the 30-day letter ballot on INCITS approval of SAT should start next week. It then goes to ANSI for approval and publication.

2. Approval of Agenda

The draft agenda was approved with the following changes:

- 5.4 SAT2 Translation of large block sizes (07-201) [Hatfield and Elliott]

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5.5 SAT-2 On-disk data format [Wolford and Elliott]

No additions and changes were made 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. Chris Fore	P	Adaptec, Inc.
Mr. Kevin Marks	P	Dell, Inc.
Mr. William Martin	P	Emulex
Mr. Ralph O. Weber	P	ENDL Texas
Mr. Rob Elliott	P	Hewlett Packard Co.
Mr. Jeff Wolford	V	Hewlett Packard Co.
Mr. Robert Sheffield	P	Intel Corp.
Mr. Steve Johnson	V	LSI Corp.
Mr. John Lohmeyer	P	LSI Corp.
Mr. Robert Griswold	A	Microsoft Corp.
Mr. Mark Overby	P	Nvidia Corp.
Mr. Tim Symons	P	PMC-Sierra
Mr. Michael Rogers	A	Samsung
Mr. Jim Hatfield	V	Seagate Technology
Mr. Jim Scott	P	Vitesse Semiconductor
Mr. Curtis Stevens	A	Western Digital

16 People Present

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

4. Old Business

4.1 SAT-2: Work Items and Open Issues List (06-497) [Overby]

Mark Overby reviewed revision 5 of the work items and open issues list. The group made revisions to the list. Mark agreed to post revision 6 of the issues list.

4.2 SAT2 Translation of SECURITY PROTOCOL IN/OUT (07-074) [Hatfield]

Jim Hatfield reviewed 07-074r2, SAT2 Translation of SECURITY PROTOCOL IN/OUT, which Jim had prepared incorporating changes that had been suggested at the last meeting. Jim had not yet posted revision 2. Jim Hatfield moved and Mark Overby seconded that 07-074r2, r1 as modified, be recommended for inclusion in SAT-2. The motion passed unanimously.

5. New Business

5.1 SAT2 - Fix command summary for SEND DIAGNOSTIC (07-146) [Sheffield]

Bob Sheffield presented 07-146r0 that contains a one-line correction to Table 8 - Summary of SCSI / ATA Command Mapping. Bob Sheffield moved and Bill Martin seconded that 07-146r0 be recommended for inclusion in SAT-2. The motion passed unanimously.

5.2 SAT2 - Use something other than 'comprises' (07-148) [Sheffield]

Bob Sheffield presented 07-148r0, SAT2 - Use something other than 'comprises'. Bob Sheffield moved and Curtis Stevens seconded that 07-148r0 be recommended for inclusion in SAT-2. The motion passed unanimously.

5.3 SAT-2 WRITE LONG to WRITE UNCORRECTABLE EXT (07-200) [Elliott and Wolford]

Jeff Wolford presented 07-200r0, SAT-2 WRITE LONG to WRITE UNCORRECTABLE EXT. The group provided a number of suggestions and Jeff agreed to prepare revision 1 for consideration at the next meeting.

5.4 SAT2 Translation of large block sizes (07-201) [Hatfield and Elliott]

Jim Hatfield and Rob Elliott presented 07-201r0, SAT2 Translation of large block sizes. The group provided a number of suggestions and they agreed to prepare revision 1 for consideration at the next meeting.

5.5 SAT-2 On-disk data format [Wolford and Elliott]

Jeff Wolford presented SAT-2 On-disk data format, a proposal that has not yet been posted. This topic is a SAT-2 open work item. This proposal deals with storing metadata on the ATA device, potentially accessed by more than one SATL, either concurrently or sequentially. He asked for feedback on the types of metadata that may be stored on ATA devices. There were concerns expressed about doing concurrent (multi-initiator) operations without an atomic ATA update operation. Jeff said they would remove this topic for now as they were more interested in sequential operations. Rob Elliott suggested how this metadata could coexist with DDF disks. There were some concerns that the SAT metadata should not be visible at the DDF level.

6. Review of SAT-2 working draft [Overby]

Mark Overby noted that he plans to upload SAT-2 revision 1 soon.

7. Review of Recommendations

The following document was recommended for inclusion into SAT-2:

For inclusion in SAT-2:

07-074r2 (SAT2 Translation of SECURITY PROTOCOL IN/OUT) [Hatfield]

07-146r0 (SAT2 - Fix command summary for SEND DIAGNOSTIC) [Sheffield]

07-148r0 (SAT2 - Use something other than 'comprises') [Sheffield]

8. Meeting Schedule

SAT Working Group meetings are scheduled for:

Tuesday, July 10, 2007 commencing at 9:00 a.m. in Colorado Springs, CO at the Antlers Hilton Hotel (Reservations: http://www.hilton.com/en/hi/groups/personalized/coscshf_lsi07/index.jhtml) hosted by LSI Corp.

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

9. Adjournment

The meeting was adjourned at 12:15 p.m. on Tuesday May 8, 2007.