

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

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Reply to: John Lohmeyer

To: T10 Membership
From: John Lohmeyer and Mark Overby
Subject: SAT Working Group Meeting -- November 6, 2007
Las Vegas, NV

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 SAT-2 WRITE LONG to WRITE UNCORRECTABLE EXT (07-200) [Elliott and Wolford]
 - 4.3 SAT-2 On disk data format (07-242) [Elliott]
 - 4.4 SAT-2: Translation of zero-length security protocol commands (07-325) [Overby]
 - 4.5 SPC-4, SAT-2, Proposal to add the ATA device password security feature (06-070) [Stevens]
5. New Business
 - 5.1 SAT-2 Add translation for SATA NCQ Priority (07-402) [Besmer]
 - 5.2 SAT-2: TUR Enhancement (07-452) [Wanamaker]
 - 5.3 SAT-2: IDNF Handling (07-453) [Wanamaker]
 - 5.4 SAT-2 Additional power management methods (07-485) [Knight]
 - 5.5 Introduction to External Path Protection (07-494) [Stevens]
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 9:00 a.m. Tuesday, November 6, 2007. He thanked Dan Colegrove of Hitachi Global Storage Technology for hosting the meeting. As usual, the people present introduced themselves.

2. Approval of Agenda

The draft agenda was approved with the addition of:

- 5.5 Introduction to External Path Protection (07-494) [Stevens]

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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. 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. Dan Colegrove	P	Hitachi Global Storage Tech.
Mr. Brad Besmer	V	LSI Corp.
Mr. John Lohmeyer	P	LSI Corp.
Mr. Mark Overby	P	Nvidia Corp.
Mr. Tim Symons	P	PMC-Sierra
Mr. Michael Rogers	A	Samsung
Mr. Jim Hatfield	AV	Seagate Technology
Mr. Gerald Houlder	P	Seagate Technology
Mr. Mark Evans	P	Western Digital
Mr. Curtis Stevens	A	Western Digital
Mr. Rich Ramos	AV	Xyratex

15 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 8 of the work items and open issues list. The group made revisions to the list. Mark agreed to post revision 9 of the issues list. Several issues still do not have an owner. Mark Overby noted that the cut-off date for proposals for SAT-2 is now January 2008 at the request of the October 17th SAT-2 call. He wants to issue the forwarding letter ballot following the July 2008 meeting.

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

Jeff Wolford presented 07-200r2, SAT-2 WRITE LONG to WRITE UNCORRECTABLE EXT. He reviewed the changes made since revision 1. A number of editorial changes were made.

It was noted that a CAP proposal, 07-451, would alter the COR_DIS and WRITE UNCORRECTABLE behavior, which could impact the 07-200 proposal. Since Rob Elliott is an author on both proposals, he was summoned to help understand if 07-451 impacts the 07-200 proposal. The conclusion was the there is no impact.

Jeff Wolford moved and Curtis Stevens seconded that 07-200r3, r2 as revised, be recommended for inclusion into SAT-2. In absence of objection, the motion passed unanimously.

4.3 SAT-2 On disk data format (07-242) [Elliott]

Jeff Wolford asked that this agenda item be deferred to the next meeting.

4.4 SAT-2: Translation of zero-length security protocol commands (07-325) [Overby]

Mark Overby presented 07-325r0, SAT-2: Translation of zero-length security protocol commands. The issue of not being able to translate zero-length security protocol commands was discussed. At the last meeting, Mark agreed to make revisions based on what T13 decides to do with zero-length trusted commands. At the subsequent T13 meeting, T13 agreed to define zero-length trusted commands. Mark said that assuming T13 defines the zero-length trusted commands, he would return in January with a revised proposal.

4.5 SPC-4, SAT-2, Proposal to add the ATA device password security feature (06-070) [Stevens]

Curtis Stevens said the changes made at the August meeting were minor and he had not yet incorporated them into revision 4. He asked that this item be deferred until the next meeting.

5. New Business

5.1 SAT-2 Add translation for SATA NCQ Priority (07-402) [Besmer]

Brad Besmer presented 07-402r1, SAT-2 Add translation for SATA NCQ Priority. The group suggested some minor changes.

Brad Besmer moved and Mark Overby seconded that 07-402r2, r1 as revised, be recommended for inclusion into SAT-2. In absence of objection, the motion passed unanimously.

5.2 SAT-2: TUR Enhancement (07-452) [Wanamaker]

On the October 17th conference call, the group agreed that SAT-2 is correct and no changes are needed.

5.3 SAT-2: IDNF Handling (07-453) [Wanamaker]

It was noted this proposal was already incorporated into SAT-2 by the proposal 07-298, SAT-2 Error Translation mapping for ATA IDNF.

5.4 SAT-2 Additional power management methods (07-485) [Knight]

In the absence of Fred Knight, this item was deferred until the next meeting.

5.5 Introduction to External Path Protection (07-494) [Stevens]

Curtis Stevens presented 07-494r0, Introduction to External Path Protection. This is the ATA-equivalent of SBC-3's protection information, a.k.a, Data Integrity Field (DIF) or end-to-end data integrity. He noted that supporting type 2 has some issues that might be dealt with by assuming the reference tag is valid on the first block and just checking that it increments. Type 2 translation should be defined in SAT-2 since there is no clear path for direct support of type 2.

Curtis agreed to being in a proposal for a subsequent meeting.

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

Mark Overby asked that this item be deferred until the next meeting noting that there have been no significant changes.

7. Review of Recommendations

The following documents were recommended for inclusion into SAT-2:

- 07-200r3 (WRITE LONG to WRITE UNCORRECTABLE EXT) [Elliott and Wolford]
- 07-402r2 (Add translation for SATA NCQ Priority) [Besmer]

8. Meeting Schedule

Face-to-face SAT-2 working group meetings are scheduled for:

- Monday, December 10, 2007 in Redmond, WA from 10:30 am until 5:00 p.m. during T13 week.
- Tuesday, January 13, 2008 in Santa Ana, CA from 9:00 a.m. until 12:30 p.m. during T10 week.

A SAT-2 teleconference call is planned for Friday, February 22, 2008. Details will be posted to the T10 Reflector. Other teleconference calls will be announced on the T10 reflector as needed.

9. Adjournment

The meeting was adjourned at 12:10 p.m. on Tuesday November 6, 2007.