

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

Doc. No.: T13/09-146r0

Date: October 27, 2009

Reply to: Mark Overby

To: T13 Membership
From: Mark Overby
Subject: T13 Plenary Meeting (Milpitas, CA) -- October 20 - 22, 2009

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Approval of the Previous Minutes
5. Review of Previous Action Items
6. Call for Patents
7. Old Business
8. New Business
9. Liaison Reports
10. Review of Action Items
11. Meeting Schedule
12. Adjournment

Results of Meeting

1. Opening Remarks

Dan Colegrove, the T13 Chair, called the meeting to order at 0912 Tuesday, October 20th, 2009. Dan Colegrove thanked Samsung for hosting.

As is customary, the people in attendance introduced themselves, and a copy of the attendance list was circulated.

The Chair briefly reviewed the meeting rules: T13 is a Technical Committee of INCITS and operates under INCITS rules. Anyone with interest in the work of the committee is free to attend and take part in discussions. However, motions and votes are limited to member organizations, one vote per member organization.

The Chair also noted that T13 operates under INCITS procedures including antitrust guidelines and such procedures and guidelines were displayed. There should never be discussion of the following topics at any INCITS or an INCITS subgroup meeting:

- “Any company's prices or pricing policies;
- “Specific R&D, sales and marketing plans;
- “Any company's confidential product, product development or production strategies;
- “Whether certain suppliers or customers will be served;
- “Prices paid to input sources; or
- “Complaints about individual firms or other actions that might tend to hinder a competitor in any market.

The chair displayed the policies and procedures, patent guidelines, and antitrust guidelines for INCITS which are also available at the <http://www.incits.org/call.htm>, http://www.incits.org/pat_slides.pdf, <http://www.incits.org/>

*Operating under the procedures of The American National Standards Institute.

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patdec_form.pdf, and <http://www.incits.org/inatrust.htm>. T13 operates under these policies and procedures augmented by the T13 procedures at the T13 web site at www.t13.org.

2. Approval of Agenda

Mark Overby moved, Dan Colegrove seconded, that the agenda be approved as revised. The motion passed with unanimous consent.

3. Attendance and Membership

The Chair reviewed the rules for membership and attendance:

3.1 Membership

An individual from an organization new to T13 must attend at least one T13 plenary meeting before requesting voting membership. After that meeting, the representative may request membership from the T13 chair stating expertise and material interest in the scope of the committee and pay the required fees to INCITS. The time when membership becomes effective has just changed. Membership now becomes effective at the start of the next meeting the organization attends assuming the organization attends one of the next two meetings.

3.2 Fees

Current INCITS memberships fees are 1200.00 USD. Alternates are included in the membership fee.

Mailings of committee documents are available to any interested party after each plenary meeting. The cost for mailings for one year is 300.00 USD for mailing in the USA and 400.00 USD for mailing to a location outside of the USA.

Persons with questions or requests regarding membership fees and/or subscriptions for mailings should contact Barbara Bennett, ITI Standards Operations, at bbennett@itic.org.

3.3 Attendance

In addition to payment of fees, there are also minimum attendance and participation requirements to maintain voting membership status on T13. A representative from a member organization must attend two of every three plenary meetings and vote on at least every other letter ballot. If a member organization fails to have a representative in attendance at two of the last three T13 plenary meetings or vote on every other letter ballot, they are warned that failing to attend the next T13 meeting or to vote on the next letter ballot will result in their voting membership being terminated.

Attendance at a working group meeting does not affect voting membership status in T13.

The T13 voting membership during the meeting was 21 organizations. Marvell was added as a voting member and IBM was changed to advisory status.

The number of eligible voting members required for establishing a quorum was 7. 12 voting member organizations were present at the start of the meeting, thus a quorum was present.

The following individuals attended:

Table 1: Attendance List

Attendee	Company		Attendee	Company
Tom Pratt	Dell		Bill Martin	Emulex
Sumit Puri	Fujitsu		Dan Colegrove	Hitachi GST

Table 1: Attendance List

Attendee	Company		Attendee	Company
Jeff Wolford	HP		Steve Livaccari	IBM
John Geldman	Lexar Media		George Penokie	LSI
Tim Emami	NetApp		Mark Overby	NVIDIA
Joseph Chen	Samsung		Dave Landsman	SanDisk
Jim Hatfield	Seagate		Frank Shu	Microsoft
Curtis Stevens	Western Digital		John Schadegg	Marvell
Patrick Hery	Toshiba		Takeo Shirai	Toshiba

4. Approval of the minutes from the previous T13 plenary meeting (e09126r0)

Dan Colegrove noted that there was an error in the discussion of the purge command and that the following sentence was missing: "The intent of the new command is to put the device into as close a factory configuration as possible.". Dan Colegrove moved, Mark Overby seconded, that the minutes be approved as changed. The motion passed with unanimous consent. Curtis Stevens moved, Dan Colegrove seconded, after the meeting starting that e09147r0 be added to the agenda for ACS-3. The motion passed by unanimous consent.

5. Review of Previous Action Items

1. Jim Hatfield to ask SATA-IO if they want a SATA-IO log page for IDENTIFY DEVICE data defined (for the proposed IDENTIFY DEVICE log). [Carry over]
2. Jim Hatfield to ask SATA-IO if they would be willing to take an ECN and have their liaison bring the proposal as a letter ballot or other form to T13. [Carry over]
3. Curtis Stevens to change the website to comply with the notification of the public access model. [Carry over]

6. Call for Patents

The Chair displayed the patent policy. The chair displayed the policies and procedures, patent policy, and antitrust guidelines for INCITS which are also available at the <http://www.incits.org/call.htm>, http://www.incits.org/pat_slides.pdf, http://www.incits.org/patdec_form.pdf, and <http://www.incits.org/inatrust.htm>.

The Chair then called for patents and/or patent applications that may be necessary to comply with the requirements in T13 standards, draft standards, technical reports, or draft technical reports.

There was no response to the call for patents.

7. Old Business

7.1 ATA/ATAPI-7: 1532D

7.1.1 ISO Status

Dan Colegrove reported that part 1 has completed the ISO process and part 3 just completed an additional round of edits.

7.2 HBA-2 Standard Project: 2014-D

Mark Overby noted that he was still waiting on a new draft of ATA8-AST.

7.3 ATA/ATAPI-8 Projects

7.3.1 AT Attachment 8 - Command Set (ATA8-ACS)

7.3.1.1 ISO Status

Curtis Stevens is working on preparing the FDIS draft.

7.3.2 AT Attachment-8 - Parallel Transport (ATA8-APT)

7.3.2.1 Letter Ballot Review

Mark Overby reviewed the letter ballot comments and completed the outstanding comments needing resolution. He stated that he believed a first draft with incorporations of the resolved letter ballot comments would be available at the next meeting.

7.3.3 AT Attachment-8 - Serial Transport (ATA8-AST)

7.3.3.1 Review of Draft

John Geldman reviewed a draft of the revisions to ATA8-AST and stated that he would post following the meeting (revision 2). John received feedback from the group and incorporated it into his draft.

7.3.4 AT Attachment-8 - Architecture Model (ATA8-AAM)

7.3.4.1 ISO Status

This is still on hold until ACS proceeds through ISO.

7.4 ACS-2 Project

2015-D [Stevens]

7.4.1 Results of letter ballot

Dan Colegrove reported that the letter ballot failed 5:9:0:6. Dan Colegrove stressed the importance of returning letter ballots as this can impact your membership and makes it difficult for the committee to make forward progress.

7.4.2 Results of Letter Ballot Comment Resolution Teleconferences [Stevens]

Curtis reported that the results of the letter ballot teleconference and recommendations from the teleconference are in the letter ballot comment resolution document (e09145).

7.4.3 Letter Ballot Comment Resolution

Curtis Stevens led a review of letter ballot comments and recorded the resolutions to the letter ballot comments in document e09145. Curtis agreed to post letter ballot comment resolutions that had been completed from this meeting.

7.5 EDD-4 (Project D2132)

7.5.1 EDD-4 Hybrid MBR support (e09127r0)

[Elliott]

Jeff Wolford stated that Rob Elliott was going to make a few changes to e09127 based on work going on in the UEFI group and felt that after those changes would want this proposal to be in EDD-4. Jeff stated he would work with Rob to ensure that the proposal could be revised and generally acceptable before the December meeting to be able to send EDD-4 to letter ballot following the December meeting.

7.5.2 Draft Review

[Stevens]

Curtis Stevens stated that no draft review was needed at this meeting.

7.6 Amendment for ATA8-ACS

7.6.1 INCITS Status

[Hatfield]

Dan Colegrove reported that public review is from October 16 to November 30th, 2009.

7.7 ACS-3 Project

7.7.1 Candidate Sectors Statistics (e09104)

[Livaccari]

Steve Livaccari presented e09104 for review. Steve made changes to improve language and clarity based on feedback given. Joseph Chen moved, Curtis Steven seconded, that e09104r1 as revised be incorporated in ACS-3. During discussion of the motion included Curtis Stevens stated that he did not want to approve the motion until ACS-2 was completed because he didn't want to see changes made because of ACS-2 changes late. The motion passed with 6 ayes, 2 nays, and 5 abstentions.

7.7.2 Device Alert Log Pages (e08151r0) [Geldman]

John Geldman asked that this be deferred to the next meeting.

7.7.3 Identify Data Log (e08156) [Stevens]

Curtis Stevens asked that this be deferred to the next meeting. Curtis did request feedback on if word 100-103 should be capped at 32b of LBA and a new length field be developed to address the issues with 32b operating systems and limitations on the size of partitions and drives. There was discussion, but no conclusion on this point.

7.7.4 ATAPI Removal (e08157) [Stevens]

Curtis Stevens asked that this be deferred to the next meeting.

7.7.5 Reporting Non-Volatile Write Cache (e08116) [Livacarri]

Steven Livacarri presented e08116r1 which created a mechanism to describe the presence of a cache on a device that is non-volatile. Steve made comments based on feedback given during the meeting. Jim Hatfield moved, Jeff Wolford seconding, that e08116r1 as revised be incorporated into ACS-3. The motion passed with 16 ayes, 0 nays, and 0 abstentions.

7.7.6 ASC/ASCQ Recommendations for ACS-2 (No Doc) [Overby]

Mark Overby asked that this be deferred to the next meeting.

7.7.7 Purge Command (No doc) [Puri]

Dave Landsman reported on behalf of the discussions at SNIA about this concept and that after discussion it was believed that the sanitize command can achieve what was desired for this behavior. It was decided to let Sumit Puri comment when he could be present before removing from the agenda. Later in the meeting Patrick Hery reported that he had talked to Sumit and that this can be removed from future agendas.

7.7.8 Sanitize frozen state reset (e09134) [Geldman]

John Geldman stated that he was working on dealing with the issue of reset and sanitize frozen state and was working with SATA-IO to make this part of SSP as well as making the SSP feature set a should for devices implementing sanitize. John asked that this be removed from the ATA agenda and any updates would be handled through ACS-2 letter ballot activity.

7.7.9 Report buffer size in IDENTIFY DEVICE (e09143r0) [Hatfield]

Jim Hatfield reviewed e09143r0 to develop a mechanism to report the size of a buffer on the device. It was suggested that this be put into the log and just converted into bytes. Jim agreed to revise the proposal and bring back to the next meeting.

7.7.10 Reporting expanded security erase times (e09142r0) [Hatfield]

Jim Hatfield reviewed e09142r0 to develop a mechanism to extend the mechanism to report security erase times since the maximum times have been greatly exceeded. There was discussion on how to report the value as to not confuse hosts that expect values of 255 to be a greater than or equal time. Jim Hatfield moved, Curtis Stevens seconded, that e09142r0 as revised for incorporation into ACS-3. The motion passed with 13 ayes, 0 nays, and 0 abstentions.

7.7.11 Behavior of Write Uncorrectable in 4K physical devices (no doc)[Hatfield]

Jim Hatfield asked that the be deferred to the next meeting.

7.7.12 Set Date and Time (e09132) [Stevens]

Curtis Stevens reviewed e09132r1 (not posted) to develop a mechanism to report the date and time to a device to allow for a date and time stamping of log data among other reasons. Curtis took feedback about the proposal and agreed to revise for the next meeting.

7.7.13 Feature for Device Encryption Supported Identify Bit (e09147) [Colegrove]

Dan Colegrove presented a new proposal for taking a reserved word in identify device to describe that a device encrypts all user data. Dan requested a straw poll on how many people would support word 243, bit 14 for describing encryption; the second option would be word 128; the third option would be to do nothing; the fourth option to be both 243 and 128. 6 were in favor of 243, bit 14. 8 were in favor of word 128. 3 were in favor of doing thing; 3 were in favor of doing it in both spots. Dan stated he would revise the proposal and bring back to the next meeting.

7.8 T13 reflector, FTP, and web site setup**7.8.1 INCITS requirement to transition to KAVI**

Dan Colegrove stated that he had no new information to report.

7.8.2 Reflector and Web Site

Curtis Stevens stated that he is feeling more comfortable with going ahead with the updates to the website.

8. New Business**8.1 INCITS Document Retention Policy****[Colegrove]**

Curtis Stevens moved, Jim Hatfield seconded, that T13 requests that all documents have an infinite retention time. The motion passed with 13 ayes, 0 nays, and 0 abstentions.

8.2 Items from the reflector

No items were reported to the reflector that needed addressing.

9. Liaison Reports**9.1 T10****[Colegrove]**

Dan Colegrove read the T10 liaison report and stated that he would post the report.

9.1.1 SCSI to ATA Translation (SAT) Working Group**[Overby]**

SAT-2 has been released to ANSI. SAT-3 is open and accepting new proposals.

9.2 T11**[Martin]**

No report was available.

9.3 SATA-IO**[Hatfield]****9.3.1 Copyright Agreement (e09112)**

Jim Hatfield displayed the proposed copyright agreement between SATA-IO and T13 in order to try and extend this past ACS-2 and SATA 3.0. Jim took feedback for a revision.

9.4 JEDEC

No report was given.

9.5 SNIA**[Colegrove]****9.5.1 SSSI**

All discussion were held in the context of the purge command.

9.6 IEEE**9.6.1 IEEE 1667 Authentication Standard for Transient Storage** **[Landsman]**

1667 is meeting next week. No activities were reported than affect T13.

9.7 Trusted Computing Group**[Hatfield]**

Jim Hatfield reported that TCG is having its members meeting next week. Jim reported that TCG was considering some issues that interact with preboot environments that may impact T13.

9.8 SFF**[Colegrove]**

Dan Colegrove had no report to give.

9.9 IDEMA**[Colegrove]**

9.9.1 4K Physical

Curtis Stevens reported that IDEMA met on Monday of this week and discussed 4k implementation recommendations. Dan stated that discussions were continuing on alignment 0 and 1.

9.9.2 HDD & SSD Reliability

Dan Colegrove stated that this could be removed from the agenda.

9.10 CFA**[Geldman]**

Dan Colegrove asked John Geldman to confirm with the CFA organization that the definitions of the ATA version of the CFA commands are still correctly defined. In addition, John was requested to ask CFA if they wish T13 to remove the definitions of the commands and import them only in their specifications.

John Geldman reported CFA is meeting in December for their members meeting. John also reported the CF5 spec is in development.

10. Review of Action Items

1. Jim Hatfield to ask SATA-IO if they want a SATA-IO log page for IDENTIFY DEVICE data defined (for the proposed IDENTIFY DEVICE log).
2. Jim Hatfield to ask SATA-IO if they would be willing to take an ECN and have their liaison bring the proposal as a letter ballot or other form to T13.
3. Curtis Stevens to change the website to comply with the notification of the public access model.

11. Meeting Schedules**11.1 Authorization of Ad-Hoc Working Groups**

Curtis Stevens moved, Bill Martin seconding, that three teleconferences be authorized for November 5th from 0900-1300 PT, 1000 - 1400 November 16th PT, and 1000 - 1400 November 30th for ACS-2 related items. The motion passed with unanimous consent.

Dan Colegrove moved, Mark Overby seconding, that two teleconference be authorized on November 4th from 1300 - 1500 and November 17th from 1300 - 1500 PT for EDD-4 related items. The motion passed with unanimous consent.

11.2 Next Meeting

Table 2: Next Meeting Information

Date	Location	Host	Contact
December 15 - 17, 2009	Santa Clara, CA	NVIDIA	Mark Overby

12. Adjournment

Mark Overby moved, Dan Colegrove seconding, that the meeting be adjourned at 1118 PT, 22 October 09. The motion passed with unanimous consent.