

## Accredited Standards Committee\*

NCITS, National Committee for Information Technology Standards

Doc. No.: T13/D97155R0

**Date:** October 23 1997

**Project:**

**Ref. Doc.:**

**Reply to:** Lawrence J. Lamers

To: Membership of T13

From: Lawrence J. Lamers, Secretary T13  
Gene Milligan, Chair T13

Subject: Minutes of T13 Working Group  
October 22-23, 1997 : Wailea, HI

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### Agenda

1. Opening Remarks
  2. Approval of Agenda
  3. Attendance
  4. Document Distribution
  5. Review of Old Action Items
  6. ATA/ATAPI-4 - Project 1153D
    - 6.1 Letter Ballot Comment Resolution
  7. Enhanced BIOS Disk Drive Technical Report - Project 1226DT
  8. Old Business
    - 8.1 Items from Open Issues List
    - 8.4 Power-up in Standby [McLean] (D97150)
  9. New Business
  10. Call for Patents
  11. Open Issues List Summary
  12. Review of New Action Items
  13. Meeting Schedule
- Boulder, CO
14. Adjournment

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### Results of Meeting

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

**NCITS Secretariat, Information Technology Industry Council (ITI)**

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## 1. Opening Remarks

Gene Milligan called the meeting to order at 9:00 a.m., Wednesday October 22, 1997. He thanked Mark Evans of Quantum Corp. for hosting the meeting.

As is customary, the people attending introduced themselves. A copy of the attendance list was circulated for attendance and corrections.

It was stated that the meeting had been authorized by T13 and would be conducted under the NCITS rules. Ad hoc meetings take no final actions, but prepare recommendations for approval by the T13 technical committee. The voting rules for the meeting are those of the parent committee, T13. For the ad hoc, other than straw votes, the voting rules are: one vote per participating company.

Gene Milligan informed the attendees that, as Chair of T13, he preferred to be a "Non-voting Chair" with another Seagate employee Marc Noblitt functioning as the voting member. He indicated the motivation was to facilitate an attempt to Chair the meetings without bias to a specific faction's position. However, even in this mode he would reserve the right to cast a vote in the event there were no Seagate representatives present.

The minutes of this meeting will be posted to the T13 ftp site and the T13 reflector and will be included in the next T13 committee mailing.

## 2. Approval of Agenda

The electronically distributed agenda was used as a basis for the meeting with adjustments as reflected in these minutes.

## 3. Attendance

Attendance at working group meetings does not count toward minimum attendance requirements for T13 membership. Working group meetings are open to any person or company to attend and to express their opinion on the subjects being discussed.

John	Hill	AMP	G
Charles	Brill	AMP, Inc.	P
Lawrence	Lamers	Adaptec, Inc.	A1
Ron	Roberts	Apple Computer	A
Ian	Morrell	Circuit Assembly Corp.	Q
Hale	Landis	Consultant	P
Robert	Liu	Fujitsu Computer Products	P
Tony	Goodfellow	GSI	P
Anthony	Yang	Hitachi America Ltd.	P
Dan	Colegrove	IBM Corp.	P
Ron	Stephens	Iomega Corp.	A
Pete	McLean	Maxtor Corp.	P
Mike	Christensen	Phoenix Technologies	A
Greg	Elkins	QLogic Corp.	P
Mark	Evans	Quantum Corp.	P
Gene	Milligan	Seagate Technology	P
Marc	Noblitt	Seagate Technology	A
Paresh	Sheth	Silicon Systems Inc.	P
Khorvash	Sefidvash	Symbios Logic	A2
Mike	Winchell	Symbios Logic	P
Tokuyuki	Totani	Toshiba America Info.	P
Tom	Hanan	Western Digital Corp.	P

**4. Document Distribution**

The following documents were distributed:

T13 Document Register - 1997

T13/1153D Rev 16 ATA/ATAPI-4 [McLean]

T13/1226 DT Rev 6 EDD [Stevens]

D97150r0 Proposal for Power-up Standby Feature Set [McLean]

D97152r0 Response to ATA/ATAPI-4 letter ballot comment resolution [McLean]

**5. Review of Old Action Items**

77) Chair to issue meeting cancellation notice for September working group. Completed.

**6. ATA/ATAPI-4 - Project 1153D****6.1 Letter Ballot Comment Resolution**

The letter ballot closed with 22 yes, 2 no, 0 abstain, and 3 did not return a ballot.

Regarding Adaptec comment #1, the letter on patents was provided. See D97153r0.

Regarding Adaptec comment #2, Larry Lamers stated that the proposed comment resolution regarding the 40ns in D97153 is not acceptable. The ad hoc recommended that the 40 ns requirement be changed to a recommendation in 5.2.9 paragraph 4.

Regarding Adaptec comment #3, the resolution of Table 32 was changed to delete the word minimum in the added row.

Regarding Apple comment #3, T13 will consider proposals for device detection for a future standard.

Regarding Apple comment #4, the consensus was to reject the comment.

Regarding the GSI comment, the resolution was accepted and Tony Goodfellow stated he would change his vote to yes if the plenary approves the comment resolution.

Regarding Iomega comment, in 6.14.2 delete last sentence of paragraph 1. In 8.11.8, delete "When Media Status Notification is enabled" from first sentence; delete second and third sentence.

Tom Hanan requested that the original note be re-instated at E to wait 400 ns before host reads status register.

On page 222 and add new box HOST: Read alternate status register and ignore results. This is to allow device time to setup bits, this prevents a polling host from reading status before it is valid. Add this to page 218, 219, 222, 223, 230, 231, 232, and 233.

Regarding Quantum comments:

Added definition for command aborted and command completion to glossary.

In the last sentence of hardware reset, software reset, and Execute Device Diagnostics, change the release of PDIAG to no later than command completion of the next command (except Execute Device Diagnostics) from the host.

The chair stated that he will forward his letter to Oak Technology and their response to NCITS as a matter of record.

The working group would recommended by unanimous consent the revised comment resolution to the plenary.

**7. Enhanced BIOS Disk Drive Technical Report - Project 1226DT**

The letter ballot closed with 21 yes, 0 no, 0 abstain, and 5 did not return a ballot.

The Chair had inadvertently missed Dan Colegrove' comments accompanying his Yes ballot. As a result the Technical Report had already been forwarded and assigned BSR NCITS 316:199x for an upcoming public review. When informed of the missed editorial comments the Chair contacted NCITS and had the processing put on hold pending the correction of the editorial items. There was also some confusion caused by the draft D1226Ra.doc (the version of Revision 6 with change bars disappearing from the ftp site. The two files (doc and pdf) on the web site was the version of Revision 6 without change bars.

Dan Colegrove and Mike Christensen generated response to the comments D97156R0. The working group recommended by unanimous consent that the plenary accept D97156R0 and forward D1226R7 resulting from the comment resolution.

Revision 6 and 6a are identical except for the removal of the change bars from rev 6 to produce rev 6a.

**8. Old Business****8.1 Items from Open Issues List**

There were none.

**8.4 Power-up in Standby [McLean] (D97150)**

Pete McLean presented a proposal to allow ATA devices to power-up in standby mode, thereby limiting the inrush current. There was general consensus regarding the need for such a feature. A long standing problem of how to identify non-existent slave drives could potentially be also addressed be a revision to this proposal.

**9. New Business**

There was none.

**10. Call for Patents**

This is a regular agenda item to identify any potential patent issues with developing standards.

A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge. Annex I contains the ANSI patent policy.

The Chair requested that any participant aware of patents or patent disclosures that may be required to comply with any publications resulting from T13 projects provide an early disclosure of such patent and offer to license such patents under reasonable and non-discriminatory conditions in accordance with the ANSI Patent Policy. There was no response to the call for patents.

**11. Open Issues List Summary**

The following item was added to the list at this meeting:

None.

**12. Review of New Action Items**

78) Mike Christensen generate revision 7 of EDD based upon the comment resolution.

79) Pete McLean to generate a revised comment resolution for ATA/ATAPI-4 and revision 17 with a minor revision number 17h.

**13. Meeting Schedule**

The next plenary meeting of T13 will be February 17-20, 1998 at the Marriott Hotel 150 E. Horsetooth Road, Fort Collins, CO 80525 hosted by Symbios Logic. The plenary will recess if a working group is needed.

The ad hoc recommended to the plenary that the December and March meetings be canceled (based upon forwarding of the several drafts and anticipated work load) resulting in the following long term meeting schedule:

Date	Location	Host	Contact
<b>February 17-20, 1998*</b>	<b>Ft. Collins</b>	<b>Symbios Logic</b>	<b>Dave Evans</b>
<b>April 14-17, 1998 *</b>	<b>San Jose, CA</b>	<b>Seagate</b>	<b>Marc Noblitt</b>
<i>May 20-22, 1998+</i>			<i>Marc Noblitt</i>
<b>June 16-19, 1998*</b>	<b>Irvine, CA</b>	<b>Western Digital</b>	<b>Tom Hanan</b>
<i>July 22-24, 1998 +</i>			<i>Marc Noblitt</i>
<b>August 18-21, 1998*</b>	<b>Boulder, CO</b>	<b>Maxtor</b>	<b>Pete McLean</b>
<i>September 23-25, 1998+</i>			<i>Curtis Stevens</i>
<b>October 20-23, 1998*</b>	<b>Wailea, Maui, HI</b>	<b>Quantum</b>	<b>Mark Evans</b>
<b>December 1-4, 1998*</b>	<b>Irvine, CA</b>	<b>Western Digital</b>	<b>Tom Hanan</b>

\* indicates that Friday will be used for the plenary meeting.

+ indicates this meeting is tentative and may be canceled.

**14. Adjournment**

The meeting was adjourned upon completion of all the agenda items.