

Accredited Standards Committee\*  
**X3, Information Processing Systems**

**Doc. No.:** X3T10/94-012R0

**Date:** January 21, 1994

**Project:**

**Ref. Doc.:**

**Reply to:** S. Finch

**To: Membership of X3T9.2**

**From: Lamers/Finch**

**Subject: Minutes of X3T9.2 Disk Drive Working Group November 8, 1993**

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

## Results of Meeting

### **1. Opening Remarks**

Steve Finch convened the meeting at 1:00 pm. Steve thanked Rich Bailly of Vitro 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 X3T9.2 and would be conducted under the X3 rules. Ad hoc meetings take no final actions, but prepare recommendations for approval by the X3T9.2 task group. The voting rules for the meeting are those of the parent committee, X3T9.2. These rules are: one vote per company; and any participating company member may vote.

The minutes of this meeting will be posted to the SCSI BBS and the SCSI Reflector and will be included in the next committee mailing.

### **2. Attendance and Membership, Introductions**

Attendance at working group meetings does not count toward minimum attendance requirements for X3T9.2 membership. Working group meetings are open to any person or company to attend and to express their opinion on the subjects being discussed.

The following people attended the meeting.

NOTE: The attendance list seems to have disappeared so there is not a list included.

### **3. Approval of Agenda**

The agenda was approved as proposed.

### **4. Document Distribution**

Several pieces of new paper were handed out but none of the authors had requested document numbers.

### **5. Report on X3T9.2 ATA Working Group Meeting, December 8, 1993**

Not supplied.

### **6. Old Business**

#### **6.1 ATA DMA Issues (Landis)**

Hale will update the document and distribute it.

#### **6.2 Download of Microcode (McGrath)**

Jim McGrath not present; deferred.

#### **6.3 20 MB/s Issues**

Not discussed.

#### **6.4 16 MB/s Issues**

This issue was brought up by John Masciewicz at the last meeting. It will be revised and presented at the January 28 meeting to determine the level of consensus. An SFF information bulletin is being considered.

### **7. New Business**

#### **7.1 ATA-3 Project Proposals**

Steve Finch presented five project proposals for ATA standards.

#### **7.2 ATA Reflector**

How to identify issues and reach consensus on resolution via reflector.

Information regarding subscribing to the reflector can be had by contacting Tom Hanan at Western Digital. hanan\_t@a1.wdc.com.

Tom stated that sequential numbering is not yet a feature of the Majordomo software.

Subscribe by sending a message to "majordom@dt.wdc.com". The message should contain a single line as follows:

subscribe ata your.email.address.

Larry Lamers requested that signature files be used by everyone.

The address of the reflector is "ata@dt.wdc.com".

#### **7.3 Master Slave Hardware Issues**

Hale talked about the master-slave issues. Hale will repost the proposed changes to Annex A and B. These annexes can be misinterpreted by folks that do not have a background in PC architecture. These changes attempt to clarify when a drive is ready to accept a command.

#### **7.4 Modeless ATA timings**

Tom Hanan presented a paper summarizing the reasons why modeless ATA timings are not an acceptable idea.

### **8. Review of X3T9.2/948D (ATA-2)**

Steve Finch stated that the group should focus on completing ATA-2 in an expeditious fashion so that the group could focus on ATA-3.

Richard Kalish moved and Larry Lamers seconded that a recommendation be made to X3T10 that revision 2 be accepted as the working draft for project 948D. The motion failed 4:7.

#### **8.1 Activities centered on 528 Mb Limitations**

Seagate kicked off an industry wide effort at Fall Comdex to resolve the addressing and capacity issues. There were a lot of folks in attendance at that meeting and a good start was made. However the issue affects a broader constituency than just the membership of ATA/SFF. Further work is expected to fine tune a proposal.

### **9. Meeting Schedule**

January 28, 1994 - Crown Sterling Suites in Milpitas, CA.

February 23, 1994 - TBD.

There was a discussion on finding a more appropriate meeting time for ATA Working Group during the X3T10 plenary week. The group settled on two approaches: keep the meeting where it is or move it to Thursday AM for ATA and Friday for SFF.

## **10. Adjournment**

The meeting adjourned at approximately 7:00 pm.