Accredited Standards Committee*

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To:        Membership of X3T10

From:      Lawrence J. Lamers, Acting Secretary X3T10
           John B. Lohmeyer, Acting Chair X3T10

Subject:   Minutes of X3T10 Plenary Meeting #1
           San Diego, CA -- January 13, 1994
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Agenda

1.   Opening Remarks

2.   Approval of Agenda

3.   Attendance and Membership

4.   X3 Tutorial

5.   Approval of Minutes - November Meeting Colo Spgs, CO (X3T9.2/93-176r1)

6.   Document Distribution

7.   Call for Patents

8.   Review of Old Action Items

9.   Subgroup and/or Project Status Reports
      9.1   Project Status Summary [Lohmeyer]
      9.2   SCSI-2 Status [Lamers]
      9.3   SCSI Common Access Method (CAM) [Dallas]
      9.4   AT Attachment Status (ATA) [Lamers]
      9.5   ATA Extensions (ATA-2) [Finch]
      9.6   SCSI-3 Architecture Model (SAM) Status [Monia]
      9.7   SCSI-3 Parallel Interface (SPI) Status [Lamers]
      9.8   SCSI-3 Interlocked Protocol (SIP) Status [Lamers]
      9.9   SCSI-3 Generic Packetized Protocol (GPP) Status [Stephens]
      9.10   SCSI-3 Serial Bus Protocol (SBP) Status [Marazas]
      9.11   SCSI-3 Fiber Channel Protocol (FCP) Status [Snively]
      9.12   SCSI-3 Primary Commands (SPC) Status [Weber]
      9.13   SCSI-3 Block Commands (SBC) [open]
      9.14   SCSI-3 Stream Commands (SSC) [open]
      9.15   SCSI-3 Graphics Commands (SGC) [open]
      9.16   SCSI-3 Medium Changer Commands (SMC) [open]
      9.17   Directly-Addressable Device Interface (DADI) []
      9.18   SCSI Common Access Method -2 (CAM-2) (93-082) [Dallas]
      9.19   SCSI-3 Serial Storage Protocol (SSP) [Scheible]
      9.20   SCSI-3 Controller Commands (SCC) (93-130) [Hagerman]
      9.21   Replacement of ANSI X3.80-1988, Interfaces Between Flexible Disk
             Cartridges and Their Host Controllers, with ISO 9315:1989.
      9.22   RAID Study Group [Penokie]
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10.  Old Business
    10.1  Technical Information Bulletins
    10.2  GPP: Standard or Technical Report? [Milligan] ()

11.  New Business
    11.1  X3T10 Subscription Mailing Program
    11.2  Review of new documents
    11.3  Task Set Basis Selection
    11.4  Delivery Mechanism Sequentiality
    11.5  SCC Project Proposal
    11.6  MMC Project Proposal

12.  ISO [Milligan]

13.  Liaison Reports
    13.1  X3T10.1 Task Group Report [Scheible]
    13.2  X3T9.3 Liaison Report [Cummings]
    13.3  Small Form Factor Industry Group [Allan]
    13.4  IEEE P1394 [Marazas]
    13.5  IT8 [Lohmeyer]
    13.6  IEEE P1285 Status [Pak]
    13.7  PCMCIA Report
    13.8  AIIM C21 [Podio]

14.  Review of Action Items

15.  Meeting Schedule
    15.1  Authorization of Working Group Meetings

16.  Adjournment

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## Results of Meeting

### 1.  Opening Remarks

John Lohmeyer, the Acting Chair, called the meeting to order at 1:00 p.m., Thursday January 13, 1994.  He thanked Rich Bailly of Vitro Corp. for arranging and hosting the first meeting of X3T10.  John said that he had copies of the call for volunteers to Chair X3T10 for anyone who wishes to apply.

John said that X3 Subgroup Membership forms and X3T10 Mailing Subscription form were available on the document table.  He said that people should use the X3 forms to insure the X3 Secretariat has the latest membership information.  The X3 Membership forms and the X3T10 Mailing Subscription forms should be mailed to the X3 Secretariat.

He also announced that any eligible organization may join X3T10 at the meeting by giving John a letter stating their interest in X3T10 and naming the principal and alternate members.  Form letters were available for those who forgot to bring a letter with them.

As is customary, the people attending introduced themselves and a copy of the attendance list was circulated.  Copies of the draft agenda and general information on X3T10 were made available to those attending.

### 2.  Approval of Agenda

The draft agenda was approved with the following additions:

11.3    Task Set Basis Selection
11.4    Delivery Mechanism Sequentiality

2

## 3.    Attendance and Membership

The membership requirements were reviewed.  X3 rules permit one vote per organization.  An individual from a new organization must attend two out of three consecutive plenary meetings.  He/she may apply for voting membership the second meeting via a letter to the Chair of X3T10.  The individual may vote at the second plenary meeting.  Working group meetings do not count toward attendance requirements.  Since the meeting was the first meeting of X3T10, it was a special case and those present were permitted to join without prior attendance.

Organizations must also pay the X3 Service Fee ($300) to maintain membership. This year, the International Participation fee ($300) will be billed separately directly from ANSI.

The X3 Secretariat will be invoicing all former X3T9.2 members for X3T10 membership.  Those that do not wish to join the new committee should return their invoice marked "cancel".  New members of X3T10 who were not on the X3T9.2 roster will receive an invoice eventually.

The initial X3T10 membership was __ organizations.  Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current X3T10 membership list.

## 4.    X3 Tutorial

Per the requirements in 4.6.2 of the Organization, Rules and Procedures of X3 (SD-2), "Each newly formed TC shall establish time on its first agenda prior to conducting any technical business for presentation of an overview on X3 and its procedure."  John Hill of OMC was present to give the overview (see X3T10/94-034).

## 5.    Approval of Minutes - November Meeting Colo Spgs, CO (X3T9.2/93-176r1)

The minutes were approved as written.

The motion regarding deferral of consideration of GPP needs to set a specific date.

## 6.    Document Distribution

Members who have any problems with their mailing subscription should deal directly with Katrina Gray at (202) 626-5741.

Larry Lamers requested that all documents for the next mailing must be sent so as to be received by noon on Friday, January 21, 1994.  Documents received after this date will go into a subsequent mailing.

Larry Lamers reminded the committee of the requirements for document submission to be included in the committee mailing.  Since X3T10 meets its CBEMA document archiving requirements by including CBEMA on the mailing list, documents included in the mailing must be suitable for microfilming.  This means that high-quality, single-sided originals with adequate margins and proper identification must be submitted.  Document X3T9.2/92-84 R1 contains the list of requirements for submissions.

As usual, minutes are also available on the SCSI BBS (719-574-0424) and will be distributed to the SCSI Reflector E-mail list.  To be added to the SCSI Reflector, send an electronic message to: scsiadm@WichitaKS.NCR.COM.

The current document register is enclosure (3).

**7.    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.  The last page contains the ANSI patent policy.

X3 has recently approved two patent statements, one for the case where no patents have been identified and another for the case where patent(s) have been identified and the patent holder(s) have agreed to comply with the ANSI patent policy.

Gene Milligan asked about a statement in SSA SCSI-3 mapping.  John Scheible stated that the statement was only applicable to SSA physical and will be removed in the next revision.

**8.    Review of Old Action Items**

1)    John Lohmeyer will contact Marilyn Courtot regarding AIIM activity.
      **Carry Over.**
2)    John Lohmeyer will contact Fernando Podia regarding liaison reports.
      **Carry Over.**

John Lohmeyer stated that for X3T10 action items would be numbered sequentially without end until the committee ceases as a viable organization.

**9.    Subgroup and/or Project Status Reports**

**9.1    Project Status Summary [Lohmeyer]**

John Lohmeyer presented the current X3T10 project status summary.

**9.2    SCSI-2 Status [Lamers]**

At BSR and approved, but letter not received.

**9.3    SCSI Common Access Method (CAM) [Dallas]**

Ralph Weber reported.  Rev 5 has been prepared to address public review comments.  There were significant editorial comments that need to be reviewed.  The next working group will have expanded hours to deal with the further editorial comments.

Gene Milligan moved and Ralph Weber seconded that revision 5 be accepted as the current working draft document for CAM.  The motion passed 35:0.

**9.4    AT Attachment Status (ATA) [Lamers]**

John Lohmeyer reported that ATA had passed its second public review and is now ready for the X3 letter ballot.  The X3 Secretariat held up the ballot waiting for X3T10 to incorporate the correct ANSI patent statement.  Since no patents have been identified to date, the appropriate statement will be included by the technical editor and the document will be released for X3 letter ballot.

**9.5   ATA Extensions (ATA-2) [Finch]**

The ATA extensions project is being driven to conclusion so that it can be forwarded.

Project proposals for ATA-3 standards are being drafted.  ATA-3 will included a layered document with faster transfer rates and added device type support.

The first set of projects will deal with ATA-PH, ATA-XPT, ATA-BC, ATA-PI.

A reflector for ATA has been established.  Send an email to majordomo@dt.wdc.com.  The email should contain a line that states "subscribe ata yourinternetaddress".

**9.6   SCSI-3 Architecture Model (SAM) Status [Monia]**

Charles Monia reported responses have been prepared to the letter ballot comments.  All responses will be or have been posted to the SCSI reflector.

There are two issues that need plenary action.

The next revision of SAM will be available prior to the next plenary. Charles will mail a copy of the document to anyone requesting it.  It will not be in the next mailing.

**9.7   SCSI-3 Parallel Interface (SPI) Status [Lamers]**

The SPI first public review is October 29, 1993 to February 26, 1994.  At its September '93 meeting, X3T9.2 authorized its chairman to submit a public review comment requesting that SCAM be incorporated into SPI as a normative annex.

**9.8   SCSI-3 Interlocked Protocol (SIP) Status [Lamers]**

An editors meeting was held in December.  More work needs to be done. Another working group meeting will be scheduled.

**9.9   SCSI-3 Generic Packetized Protocol (GPP) Status [Stephens]**

Gary Stephens reported.  Several changes have been made to accomodate comments received.  A revision is planned to be available at the next meeting.

**9.10  SCSI-3 Serial Bus Protocol (SBP) Status [Marazas]**

Scott Smyers reported.  A working group meeting is scheduled for January 26, 1994 to resolve the letter ballot comments.

**9.11  SCSI-3 Fiber Channel Protocol (FCP) Status [Snively]**

Robert Snively reported.  Revision 7a is available and address all comments received from the letter ballot.  Several items came to light in the reveiw at the last working group.  A revision 8 will be in the next mailing.

Bob requested a letter ballot be conducted to forward FCP in conjunction with the next mailing.  The chair stated he would make a determination on this request at the time of the mailing.

**9.12  SCSI-3 Primary Commands (SPC) Status [Weber]**

Ralph Weber reported.  An outline for the SPC document was in the mailing.
A first draft will be available at the March meeting.  This topic will be on
the agenda for the next working group.

**9.13  SCSI-3 Block Commands (SBC) [open]**


**9.14  SCSI-3 Stream Commands (SSC) [open]**


**9.15  SCSI-3 Graphics Commands (SGC) [open]**


**9.16  SCSI-3 Medium Changer Commands (SMC) [open]**



**9.17  Directly-Addressable Device Interface (DADI) []**

No report.

**9.18  SCSI Common Access Method -2 (CAM-2) (93-082) [Dallas]**

In suspension.

**9.19  SCSI-3 Serial Storage Protocol (SSP) [Scheible]**

John Scheible reported.  The project proposal is still in process.  A
proposal for an eventual working draft was in the last mailing.

**9.20  SCSI-3 Controller Commands (SCC) (93-130) [Hagerman]**

John Lohmeyer reported that while X3T9 did approve the SCC project proposal
in December, they failed to send it OMC for its meeting last week.  The
failure was due to misplacing the project proposal file.

**9.21  Replacement of ANSI X3.80-1988, Interfaces Between Flexible Disk
       Cartridges and Their Host Controllers, with ISO 9315:1989.**

In April '93, X3T9.2 voted to recommend that simultaneous withdrawal of
X3.80-1988 and adoption of ISO 9315:1989 as an ANSI standard.  X3T9 accepted
this recommendation and voted to make the same recommendation to X3.  The
public review period began October 15, 1993 and closes February 13, 1994.

**9.22  RAID Study Group [Penokie]**

George Penokie reported.  Two meetings have occurred since the last plenary.
The RAID model document has been revised.  An extended addressing proposal
has been developed and is stable.  It will be incorporated into the RAID
model.

**10.    Old Business**

**10.1   Technical Information Bulletins**

Gary Stephens had prepared a TIB on the tape partition issue.  Folks are advised to review it.  It is anticipated that a forwarding motion will be taken as soon as SCSI-2 is approved.

**10.2   GPP: Standard or Technical Report? [Milligan] ()**

A motion on whether GPP should be a standard or technical report was postponed until this meeting:

> Whereas having two I/O protocols for each SCSI physical interconnect is a problem for the industry although there may be some niche applications where GPP is useful,  Gene Milligan moved and Ed Gardner seconded that X3T9.2 take the appropriate steps to convert it from a dpANS and to publish it as a technical report.

The Navy stated support for using GPP in mission critical applications.

Neil Wood moved and Jim McGrath seconded that the question be called 22:8.

The motion carried 37:11:11.

The chair requested a volunteer to revise the project proposal for GPP. There were no forth coming volunteers.

**11.    New Business**

**11.1   X3T10 Subscription Mailing Program**

Bob Snively moved and Jeff Williams seconded that X3T10 request the X3 Secretariat to initiate a Document Distribution Program for X3T10 and to transfer the remaining funds from the X3T9.2 Document Distribution Program to X3T10's fund.  The motion passed: unanimous.

Steve Finch requested that consideration be given to combining the SSA task group mailing in X3T10.  The chair stated he will investigate the probability.

**11.2   Review of new documents**

None.

**11.3   Task Set Basis Selection**

This item was added to the agenda at the request of the working group to attempt resolution of this recurring topic.

Ralph Weber moved and Jeff Willams seconded that alternative task set definitions (Annex A) be removed from SAM.  The motion carried 34:2.

**11.4   Delivery Mechanism Sequentiality**

Bob Snively moved and Scott Smyers seconded that in-order delivery is not required by SAM.  The motion carried 32:4.

## 11.5  SCC Project Proposal

Bob Snively moved and Steve Finch seconded that X3T10 forward the SCSI-3 Controller Commands project proposal (X3T10/94-035r0) with the addition of X3T11 as liaison) to X3 for further processing.  The motion carried: 47:0:5.

## 11.6  MMC Project Proposal

Steve Finch moved and Jeff Stai seconded that X3T10 forward the SCSI-3 Multi-Media Commands project proposal (X3T910/94-036r0) to X3 for further processing.  The motion carried: 47:0:5.

## 12.  ISO [Milligan]

Gene Milligan, the acting X3T10 International Representative, provided the following electronic report:

Gene Milligan TBD.

ISO Report
January 1994

## 13.  Liaison Reports

## 13.1  X3T10.1 Task Group Report [Scheible]

John Scheible TBD.

## 13.2  X3T9.3 Liaison Report [Cummings]

No Report.

## 13.3  Small Form Factor Industry Group [Allan]

Dal Allan reported on the recent SFF activities.

The January meeting was held on Monday 1/10 at the Catamaran Hotel.

All documents being balloted passed, and the projects for >528MB and ATAPI CD-ROM were approved.

The suggestion that the Unitized Parallel Connector (3-in-1) for Rack Applications be dropped was opposed. As a result of the discussion, it was agreed that it is important to define the 3 1/2" from factor with the same degree of precision as the 2 1/2".

The call for a leader was met by Jay Neer, who volunteered to lead a SSWG which will be held in the first week of February to consider the following:

```
 - Form factor of 3 1/2" drives
 - Extended form factor of 3 1/2" drives with Unitized Serial Connector
 -     "         "     "  " 2 1/2"    "      "      "     "        "
 -     "         "     "  " 5 1/4"    "      "      "     "        "
 - Placement of Serial Unitized Connector on 2 1/2" drives
 -     "         "     " "      "       " 3 1/2" drives
 -     "         "     " "      "       " 5 1/4" drives
```

An updated revision of the >528MB draft was presented by Hale Landis.

Bill Ham extended the description of the various wiring schemes (22 of 26 are completed) between unlike connectors.

ATAPI CD-ROM was distributed shortly before Christmas, and a SSWG will be held in late January to address the remaining issues.

13.4 IEEE P1394 [Marazas]

Scott Smyers reported. The editing is on going - forwarding is expected in March '94. Section 7 & 8 still need work.

13.5 IT8 [Lohmeyer]

No report.

13.6 IEEE P1285 Status [Pak]

Scott Smyers TBD.

13.7 PCMCIA Report

No report.

13.8 AIIM C21 [Podio]

No report.

14.   Review of Action Items

1)   John Lohmeyer will contact AIIM regarding AIIM activity.
2)   John Lohmeyer will contact Fernando Podia regarding liaison reports.
3)   Larry Lamers will incorporate the correct patent statement in the dpANS AT Attachment and will send a copy to the X3 Secretariat.
4)   On behalf of X3T10, John Lohmeyer will submit a public review comment against SPI requesting that SCAM be incorporated.
5)   John Lohmeyer to progress the SCC project proposal to X3.
6)   John Lohmeyer to progress the MMC project proposal to X3.
7)   John Lohmeyer to discuss combined TC/TG mailing with X3 Secretariat.
8)   Gene Milligan to revise project proposal on GPP.
9)   John Lohmeyer to contact X3 Secretariat regarding electronic SDs.

15.   Meeting Schedule

The next plenary meeting of X3T10 will be March 17-18, 1994, in Newport Beach, CA, at the Hyatt Newporter Hotel (714-729-1234), hosted by QLogic Corporation. The meeting will begin at 1:00 pm on Thursday and at 8:30 am (if necessary) on Friday.

The meeting schedule for the week of March 14-18 in Newport Beach is:

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Day & Date       Meeting                            Times
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Sunday 3/13      General Editing Session            1:00p -  5:00p (*)
Monday 3/14      Small Form Factor Committee        9:00a -  1:00p
                 ATA Working Group                  2:00p -  8:00p (*)
                 CAM Working Group                  9:00a -  5:00p (*)
                 FC-Arbitrated Loop                 5:00p -  8:00p
                 P1394 Connector                    1:00p -  6:00p
Tuesday 3/15     SSA UIG                            9:00a -  1:00p
                 X3T9.7 (SSA)                       2:00p -  5:00p
                 SCSI-3 General Working Group       9:00a -  8:00p (*)
                 RAID Study Group                   9:00a -  5:00p (*)
                 Fibre Channel EP/IG Work Group     9:00a -  5:00p
                 Fibre Channel Association          5:00p -  8:00p
Wednesday 3/16   SCSI General Working Group         9:00a -  5:00p (*)
                 Fibre Channel EP & Fabric Serv WG  9:00p -  5:00p
                 FC-LE Edit                         5:00p -  8:00p
                 FC - RT/Navy                       5:00p -  8:00p
Thursday 3/17    SSP (SSA protocol) WG              9:00a - 12:00n (*)
                 X3T10 Plenary Meeting              1:00p -  8:00p (*)
                 Mgt Info Bases (MIBS)              9:00a -  5:00p
                 IPI-3                              8:30a -  2:00p
Friday 3/18      X3T10 Plenary Meeting              8:30a -  2:00p (*)
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(*) - Indicates an X3T10-related meeting. All others are shown for reference only and
may be changed by other groups without notice.

Several other X3T10 events are also planned:

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Event                            Day/Date  Time       Location/contact
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SIP Editing Session              Mon 12/6  9a - 5p    San Diego/Lamers
SBP WG                           TBD                  ?/Marazas
FCP WG                           TBD                  ?/Snively
RAID SG                          Tue 12/7  9a - 5p    San Diego/Penokie
ATA WG                           Dec ?                ?/Finch
ATA WG                           Jan ?                ?/Finch
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For more information about X3T10 activities, please contact the following
people:

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Activity                    Contact         Telephone/Email
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CAM Working Group           Bill Dallas     (603) 881-2508
                                            dallas@wasted.enet.dec.com
ATA Working Group           Steve Finch     (714) 573-6808
                                            5723283@mcimail.com
GPP Working Group           Gary Stephens   (602) 799-2246
                                            gstephen@tucvm2.vnet.ibm.com
RAID Study Group            George Penokie  (507) 253-5208
                                            gop@rchvmp3.vnet.ibm.com
SAM Working Group           Charles Monia   (508) 841-6757
                                            monia@starch.enet.dec.com
SBP Working Group           Jerry Marazas   (407) 982-4423
                                            marazas@bcrvmpc2.vnet.ibm.com
SPI Contact                 Larry Lamers    (408) 432-3889
                                            71540.2756@compuserve.com
SIP Contact                 Larry Lamers    (408) 432-3889
                                            71540.2756@compuserve.com
SCAM Contact                Ed Gardner      (719) 548-2247
                                            gardner@ssag.enet.dec.com
Other Activities            John Lohmeyer   (719) 573-3362
                                            john.lohmeyer@ftcollinsco.ncr.com
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The long-term X3T10 meeting week schedule is:

Date	Location	Host/Comments
Mar 14-18, 1994	Newport Beach, CA	Emulex
May 16-20, 1994	Harrisburg, PA	AMP
Jul 18-22, 1994	Manchester, NH	DEC
Sep 12-16, 1994	Toronto, Canada	Canstar **(Location may change!)**
Nov 7-11, 1994	Southern California	Western Digital

15.1 Authorization of Working Group Meetings

John noted that the working group meetings are required to operate under the same voting procedures as does X3T10 (that is, one vote per organization) and the results of a working group are not binding on the parent committee. This later requirement is why we have traditionally only used non-binding straw polls in working group meetings. Any issue where the voting rules would make a difference is automatically deferred to the plenary group.

Jeff Stai moved and Ed Gardner seconded that X3T10 authorize the X3T10-related meetings and events in the list above. The motion passed unanimously.

16. Adjournment

The meeting was adjourned at 8:00 p.m. on Thursday January 13, 1994.

Meeting Attenders -- Enclosure (1)

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        Name            S      Organization        Electronic Mail Address
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__ People Present

Status Key:  P   -  Principal
             A   -  Alternate
             O   -  Observer
             L   -  Liaison
             S,V -  Visitor
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