Accredited Standards Committee*
**National Committee for Information Technology Standards (NCITS)**

To:         T10 Membership
From:       Ralph Weber / John Lohmeyer
Subject:    Minutes of T10 Plenary Meeting #41 -- January 18, 2001
            Lake Buena Vista, FL

# Agenda

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9.  Old Business
10. New Business
    10.1  Actions on January Parallel SCSI Working Group Recommendations
        10.1.1  Proposal for Ultra320 SCSI timing skew specification for SPI-4 (00-399r2) [Evans]
        10.1.2  Task Status after PPR (00-403r1) [Galloway]
        10.1.3  QAS Handshake Correction (01-031r0) [Galloway]
        10.1.4  Additional Flow Control Timings (01-032r0) [Galloway]
        10.1.5  SPI-4 Dedication [Lohmeyer]
    10.2  Actions on January CAP Working Group Recommendations
        10.2.1  CDB Structure Rewrite for SPC-2 (00-269r4) [Weber]

# Results of Meeting

## 1.   Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday January 18, 2001.  He thanked Ron Roberts of Adaptec for hosting the meeting.

John Lohmeyer reported that Gene Milligan had passed away shortly after the November meeting and asked that the committee observe a moment of silence in Gene's memory.

John said that NCITS Subgroup Membership forms and the T10 Mailing Subscription form were available from the head table.  He said that people should use the NCITS forms to insure the NCITS Secretariat has the latest membership information.  These forms should be mailed directly to the NCITS Secretariat.

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 T10 were made available to those attending.

## 2.   Approval of Agenda

The draft agenda was approved with the following additions/changes:

10.1.1  Proposal for Ultra320 SCSI timing skew specification for SPI-4 (00-399r2) [Evans]
10.1.2  Task Status after PPR (00-403r1) [Galloway]
10.1.3  QAS Handshake Correction (01-031r0) [Galloway]
10.1.4  Additional Flow Control Timings (01-032r0) [Galloway]
10.1.5  SPI-4 Dedication [Lohmeyer]

10.2.1    CDB Structure Rewrite for SPC-2 (00-269r4) [Weber]
10.2.2    SPC-2 FIRST BURST SIZE definition (01-025r0) [Elliott]
10.2.3    iSCSI protocol additions to SPC-2 901-044r0) [Peterson]
10.2.4    Deassigning MARGIN CONTROL op code in SPC-2 [Weber]
10.2.5    SPC-3 Access Controls LUN conflicts due to transport IDs (01-026r0) [Elliott]
10.4      Retain training information correction 00-414r0 [Galloway]
10.5      Obsolete Printer Command Set in SSC-2 [Peterson]

The following agenda items were added/revised during the course of the meeting:

10.6      Five Year Reviews [Lohmeyer]
12.7      IETF SCSI over IP [Black]


## 3.   Attendance and Membership

The membership requirements were reviewed.  NCITS rules permit one vote per organization.  An individual from a new organization must attend at least one T10 plenary meeting as an Observer.  He/she may apply for voting membership at this meeting, which becomes effective following adjournment of the meeting.  Voting privileges begin upon receipt by the NCITS Secretariat of applicable fees for the membership year.

To maintain membership, organizations must pay the NCITS Service Fee ($800), which includes the ANSI International Program Fee.

John briefly discussed the mailing fees.  Complete pricing information is contained in the 2001 membership form (available at ftp://ftp.t10.org/t10/mem_form.txt).

There are also minimum attendance requirements to maintain voting membership on T10.  If a member organization fails to attend two of the last three T10 meetings, they are warned that failing to attend the next T10 meeting would result in their membership being terminated.

The Chair said he had sent letters to 10 people from 4 organizations informing them that their membership was in jeopardy due to non-attendance (see 00-032r0) and that their membership would be terminated if they did not attend this meeting.  The following organizations were in attendance jeopardy:

Dell Computer
Hewlett Packard Co.
Hitachi Cable Manchester
Maxtor Corp.

All of these organizations were present.

The organizations in attendance jeopardy that failed to attend were terminated (i.e., the principal member was changed to observer status and the first alternate member, if any, was dropped; additional alternates, if any, were changed to observers).

The following organizations requested new (or reinstated) membership:

Intel Corp.

The T10 membership during the meeting was 43 organizations up from 42 organizations following the last meeting. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current T10 membership list.

The following organizations requested new membership following the adjournment of the meeting:

Emulex
Microsoft Corp.
Troika Networks, Inc.

T10 membership following the meeting was 46 members.


## 4.  Approval of Minutes - November '00 Meeting - Seaside, CA (T10/00-375r1)

The minutes were approved as written.


## 5.  Document Distribution

Members who have any problems with their mailing subscription should deal directly with Monica Vago (mvago@itic.org) (202) 626-5741.

John Lohmeyer requested that all documents for the next mailing be in his hands in electronic format by 10:30 a.m. on Thursday January 25, 2001.  Documents received after this time may go into a subsequent mailing.

John reminded the committee of the requirements for document submission.  Since T10 meets its document retention requirements by preparing mailings, documents included in the mailing must be suitable for archiving. This means that native-format and/or Portable Document Format (PDF) electronic originals with proper identification must be submitted.

The electronic copies can be sent directly to John by email (at lohmeyer@t10.org), or they can be transferred by ftp protocol to ftp.t10.org and placed in the /incoming directory. In the latter case, please also send email to John informing him of the file name and location of the file.

Minutes are available on the T10 World Wide Web page (see below), and are distributed to the T10 Reflector.

To be added to the T10 Reflector, send an email to majordomo@t10.org with the line 'subscribe t10' in the message body.

The NCITS Secretariat maintains a World Wide Web page at http://www.ncits.org/.  LSI Logic maintains a web site on behalf of T10 on a server donated by the SCSI Trade Association at:

  http://www.t10.org/

There is also a mirror site at:

  http://www.t11.org/t10/

The current document register is enclosure (3).  The T10 document register is also available at:

  ftp://ftp.t10.org/t10/dr.txt

## 6.  Call for Patents

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

A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge.  This document is also on the WWW at http://www.ncits.org/help/ansi_sdo.html.  Section1.2.11 contains the ANSI patent policy.  Amy Marasco manages patent issues for ANSI and can be contacted at amarasco@ansi.org or 212-642-4954.  Gene Milligan prepared a useful "Handy dandy Technical Committee's Patents Guide", which is available at ftp://ftp.t10.org/t10/document.99/99-291r0.pdf.

John presented a foil containing a summary of the ANSI patent policy that Gary Robinson had sent to John.  The summary is also included on the Rules and Procedures (plus Patent Information) page on the T10 web site.

John asked that anyone who knows of applicable patents contact him.

Cris Simpson read to the committee the contents of 01-041r0, a statement of the Intel patent policy.

Neil Wanamaker noted a letter concerning a patent that applies to FCP-2 has been transmitted to the chair (01-049r0).

John Lohmeyer indicated that a letter will be forthcoming from LSI Logic regarding their patent position on SDV.

## 7.  Review of Old Action Items

399)    Gene Milligan will create the T10 style guide document and MSword templates.  *Overcome by events*
401)    Bob Snively will prepare FCP-2 revision 5 for letter ballot review.  *Complete*
402)    John Lohmeyer will conduct a letter ballot on FCP-2 revision 5.  *Complete*
403)    John Lohmeyer will forward 00-388r0 to NCITS for processing as a project proposal for SBP-3.  *Complete.*
404)    John Lohmeyer will communicate the results of the ISO/IEC motions to Gene Milligan and Barbara Bennett.  *Complete.*

## 8.  Project Status Reports

### 8.1  Project Status Summary and NCITS Liaison [Lohmeyer]

John Lohmeyer said that the current T10 project status summary was included in the T10 Information Packages distributed prior to the meeting and will be included in the mailing as usual.

### 8.2  SCSI Fibre Channel Protocol - 2 (FCP-2) {Project 1144-D} [Snively]

Dave Peterson reported on the activities of Joint T10/T11.3 meetings since the November plenary (01-017 and 01-040).  He noted that all FCP-2 letter ballot comments have been resolved and a new draft of FCP-2 will available sometime after the T10 mailing.  The latest letter ballot comment resolutions document is 01-030r1.  The plan is to approve the letter ballot comments resolution and forward FCP-2 in March.

### 8.3  SCSI Architecture Model - 2 (SAM-2) {Project 1157-D} [Weber]

Ralph Weber reported that SAM-2 revision 15 was distributed in the last mailing.  Since no proposals changing SAM-2 are on the agenda for this meeting, there will be no new revision following this meeting.

**8.4  SCSI Enclosure Services Amendment #1 (SES AM1) {Project 1212-M} [Elliott]**

John Lohmeyer reported that SES AM1 probably has been approved by BSR.  He said he will verify the status and update the project database.

**8.5  SCSI Primary Commands - 2 (SPC-2) Status {Project 1236-D} [Weber]**

Ralph Weber reported that resolution of the SPC-2 letter ballot comments is complete and ready for careful review in 00-267r6, which will be in the next mailing.  A vote to accept the letter ballot resolution and forward SPC-2 will be requested in March.

**8.6  SCSI Parallel Interface - 3 (SPI-3) {Project 1302-D} [Penokie]**

John Lohmeyer reported that SPI-3 was approved by BSR on November 14 and is published.  George Penokie reported that is has received the ANSI copy of SPI-3.  John congratulated George on his efforts as SPI-3 Project Editor. (This item will be removed from future agendas.)

**8.7  MultiMedia Command Set - 3 (MMC-3) {Project 1363-D} [McFerrin]**

Bill McFerrin reported on the activities of the MMC-3 working group (minutes in 01-050).  He noted that forwarding of MMC-3 will be held up until March because of some late breaking changes.  He noted that revisions 5, 6, and 7 will be in the next mailing.

**8.8  Reduced MultiMedia Command Set (RMC) {Project 1364-D} [McFerrin]**

Bill McFerrin reported that RMC development is dormant at this time so that work on MMC-3 can proceed.

**8.9  SCSI Parallel Interface - 4 (SPI-4) {Project 1365-D} [Penokie]**

George Penokie reported on the activities of the SPI-4 working group (minutes in 01-006).  SPI-4 revision 2 will be in this mailing and contains all the proposals accepted at the November meeting.  George indicated that due to few new proposals, there will be no revision of SPI-4 between now and March.

**8.10 SCSI Domain Validation Technical Report (SDV) {Project 1378-DT} [Roberts]**

Ron Roberts reported on the activities of the SDV working group (minutes in 01-005).  The current revision is 3a. Revision 4 will be available as soon as possible and might be ready in time for the next mailing.

**8.11 SCSI on Scheduled Transfer (SST) {Project 1380-D} [Woelz]**

Don Woelz reported that the SST editor meeting in November produced a large amount of editing work.  Revision 6 was recently posted on the web site.

**8.12 SCSI Medium Changer Commands - 2 (SMC-2) {Project 1383-D} [Oetting]**

Erich Oetting reported SMC-2 is dormant awaiting proposals for changes.

**8.13 SCSI Signal Modeling (SSM) {Project 1414-DT} [Aloisi]**

Paul Aloisi reported on the activities of the SSM working group meeting in December (minutes in 01-020).  Paul also provided in an electronic report in 01-052r0.

**8.14 SCSI RDMA Protocol (SRP) {Project 1415-D} [Gardner]**

Ed Gardner reported the SRP working group will meet later today and Friday.  The SRP working group also met in December in Redmond, WA (minutes in 01-009) and in Houston, TX in January (minutes in 00-024).  He noted that the SRP working group is trying to hold an additional meeting in February.  Revision 3 will be available for the mailing.

**8.15 SCSI Primary Commands - 3 (SPC-3) {Project 1416-D} [Weber]**

Ralph Weber reported that progress on SPC-3 has been delayed by about six months as a result of the difficulties encountered in resolving comments from the SPC-2 letter ballot.  If no further schedule slips are encountered, SPC-3 will go to letter ballot in November 2002.  A new schedule for SPC-3 will be presented in March.

**8.16 SCSI Block Commands - 2 (SBC-2) {Project 1417-D} [open]**

John Lohmeyer reported that the technical editor position for SBC-2 is open.  One individual is trying to obtain management approval to become editor.

**8.17 Object-based Storage Devices Commands (OSD) {Project 1355-D} [open]**

John Lohmeyer reported that the technical editor position for OSD is open.  Ed Gardner indicated that he might be interested in becoming editor but not before SRP has been forwarded to public review.

**8.18 SCSI Stream Commands - 2 (SSC-2) {Project 1434-D} [Peterson]**

Dave Peterson reported on the activities of the SSC-2 working group (minutes in 01-012 and 01-036).  SSC-2 revision 1 will be available for the mailing.

**8.19 SCSI Passive Interconnect Performance (PIP) Technical Report (PIP) {Project 1439-DT} [Ham]**

In Bill Ham's absence, Paul Aloisi reported on the activities PIP working group in December (minutes in 01-019).

# 9.   Old Business

No old business was scheduled for committee action.

# 10.  New Business

**10.1 Actions on January Parallel SCSI Working Group Recommendations**

**10.1.1   Proposal for Ultra320 SCSI timing skew specification for SPI-4 (00-399r2) [Evans]**

George Penokie moved that 00-399r2, 00-403r1, 01-031r0, 01-032r0, and the dedication to Gene Milligan be approved for inclusion in SPI-4.  Bill Galloway seconded the motion.  In the absence of any objections, the motion passed unanimously.

**10.1.2   Task Status after PPR (00-403r1) [Galloway]**

Action on this item was covered by the motion in 10.1.1.

### 10.1.3   QAS Handshake Correction (01-031r0) [Galloway]

Action on this item was covered by the motion in 10.1.1.

### 10.1.4   Additional Flow Control Timings (01-032r0) [Galloway]

Action on this item was covered by the motion in 10.1.1.

### 10.1.5   SPI-4 Dedication [Lohmeyer]

Action on this item was covered by the motion in 10.1.1.

## 10.2 Actions on January CAP Working Group Recommendations

### 10.2.1   CDB Structure Rewrite for SPC-2 (00-269r4) [Weber]

Ralph Weber moved that 00-269r4, 01-025r0, 01-044r0, and deassigning the MARGIN CONTROL operation code be approved for incorporation in the SPC-2 letter ballot response.  Bill Galloway seconded the motion.  The motion passed on a two-thirds vote of 33:0:0:10=43.

### 10.2.2  SPC-2 FIRST BURST SIZE definition (01-025r0) [Elliott]

Action on this item was covered by the motion in 10.2.1.

### 10.2.3   iSCSI protocol additions to SPC-2 (01-044r0) [Peterson]

Action on this item was covered by the motion in 10.2.1.

### 10.2.4   Deassigning MARGIN CONTROL op code in SPC-2 [Weber]

Action on this item was covered by the motion in 10.2.1.

### 10.2.5  SPC-3 Access Controls LUN conflicts due to transport IDs (01-026r0) [Elliott]

Rob Elliott described the proposal making the Fibre Channel Transport ID be just the node ID.  Bob Snively raised concerns that the node ID is very poorly defined.

Rob Elliott moved that option 1 described in 01-026r0 be approved for inclusion in SPC-3.  Bill Galloway seconded the motion.

The group discussed the ambiguous use of node ID.

By unanimous consent of the committee, voting on the motion was deferred until 10.4 and 10.5 were completed.

After reviewing and discussing the proposal, Bob Snively stated that he could support option 2 in 01-026r0.

Rob and Bob agreed on the contents of a revised proposal, 01-026r1, changing node ID (or node name) to port ID (or port name).  Bob made a friendly amendment to change 01-026r0 to 01-026r1.  The amended motion passed on a vote 18:1:13:11=43.

## 10.3 Actions on Other Working Group Recommendations

No other working group recommended actions were brought before the committee.

**10.4 Retain training information correction 00-414r0 [Galloway]**

Noting that an administrative snafu omitted the proposal from the working group agenda, Bill Galloway moved that 00-414r0 for inclusion in SPI-4. Rob Elliott seconded the motion. In the absence of any objections, the motion passed unanimously.

**10.5 Obsolete Printer Command Set in SSC-2 [Peterson]**

Noting that the intent to act had been posted on the T10 reflector weeks ago, Dave Peterson moved that the SCSI Printer device model be made obsolete in SSC-2. Bob Snively seconded the motion. The motion passed on a vote of 31:0:2:10=43.

**10.6 Five Year Reviews [Lohmeyer]**

John Lohmeyer reported that the following standards are up for 5-year review:

  o CAM X3.232:1996
  o SSA-TP1 X3.295:1996
  o SSA-S2P X3.294:1996
  o SSA-PH1 X3.293:1996
  o FCP X3.269:1996
  o SAM X3.270:1996

John Scheible reported that IBM desires that all the SSA standards be reaffirmed. John Lohmeyer reported that no newer versions are yet available for SAM, CAM, and FCP.

Bob Snively moved that all six standards be reaffirmed but withdrew the motion when Mark Evans asked to divide the question. The committee agreed that action on the reaffirmation would be taken in March.

John reported that additional information is available in 01-037r0.


# 11. ISO/IEC

**11.1 ISO/IEC Report [Robinson]**

John Lohmeyer announced that NCITS is conducting a call for volunteers for T10 International Representative. In the interim Gary Robinson has agreed to act as IR.

Gary Robinson reported on his plans as acting IR.

**11.2 ISO/IEC Business [Robinson]**

John Lohmeyer reported that no ISO/IEC business need be considered at this meeting.


# 12. Liaison Reports

**12.1 T11 Liaison Report [Wanamaker]**

Neil Wanamaker reported on the activities of the T11 committee and provided the following electronic report for the minutes.

    T11 last met on December 7 in Austin TX

73 attending from 62 organizations
Membership is 69
New membership practices approved
Letter ballots on FC-PI, FC-AV passed with comments
Accepted comment resolution & forwarded FC-PI, FC-GS-3, FC-SB-2
FC-SW-3 project proposal approved
FC-SW-2 letter ballot closes tomorrow
There is a call for volunteers for International Representative
Next meeting February 8 in Huntington Beach, CA

## 12.2 T13 Liaison Report [McLean]

Pete McLean reported to the committee and provided the following electronic report for the minutes:

T13 met last in Irvine, CA,  December 12 through 14, 2000 with 28 people present. Membership is now at 25 voting organizations.

ATA/ATAPI-5, NCITS. 340-200x, is at ANSI for final approval and publication, and now received BSR approval.

Protected Area Run Time Interface Extension, NCITS.346-200x,  closes NCITS public review today.

Letter ballot comments on BIOS Enhanced Disk Drive Services (EDD), T13/1386D,  have been resolved and the document will be forwarded to NCITS.

Letter ballot comments on Address Offset Reserved Area Boot, T13/1407DT, have been resolved and the document will be forwarded to NCITS.

The project proposal for BIOS Enhanced Disk Drive Services - 2 (EDD-2) was approved at the December meeting.

Withdrawal of ATA-2, X3.279-1996, is at NCITS public review ending 8 January 2001.

The next plenary will be held February 20 through 23, 2001 hosted by Dell Computer Corporation in Austin, Texas. No ad hoc meetings are scheduled.

The T13 web site is at www.t13.org; the FTP site, at fission.dt.wdc.com/x3t13. The committee has a temporary reflector at t13@tgi.com. To join the temporary reflector send mail to hlandis@attglobal.net.

In addition to the electronic report, Pete noted that NCITS is conducting a call for volunteers for T13 chair.

## 12.3 SFF Industry Group [Allan]

Dal Allan provided the following report:

SFF Committee Report January 2001

Two proposals for 1.8" form factor drives were received.

 - The proposal from Toshiba is a variation on the current PCMCIA drives (the connector was replaced and uses a native ATA pinout) for use as an internal drive. It operates at 3.3V.

 - The proposal from IBM, Fujitsu and Hitachi is a shrinkage of the 2.5" drive and retains the same connector. The size and placement of mounting holes has changed from 2.5" and it operates at 5V.

Alvin Cox distributed the first revision of SFF-8460 (HSS Backplane Design Guidelines) over the reflector and was complimented on the content during the review by the working group.

Chuck Brill plans to submit the first draft of HSSDC-2 in time for the mailing.

The low speed people are encountering upon downloading specifications are due to problems at the ftp site maintained by Western Digital, which relocated all computer systems to a new facility in the 4Q.

### 12.4 IEEE 1394 [Johansson]

In the absence of Peter Johansson no report was made.

### 12.5 IEEE P1285 Status

Gary Robinson reviewed the history of the P1285 project and reported the IEEE has voted to not extend the P1285 project.  John Lohmeyer stated that this item will be removed from future agendas.  Bob Snively asked all present to inform T10 and T13 should the project be re-started.

### 12.6 SCSI Trade Association (STA) [Jones/Aloisi]

Paul Aloisi reported on the activities of STA and provided an electronic report that can be found in 01-051r0.

### 12.7 IETF SCSI over IP [Black]

David Black reported on the activities of the IETF IP Storage working group, who held meetings co located with T10 this week.  He noted the IETF IP Storage working group will not co locate with T10 in March due to the fact that IETF will be meeting in Minneapolis two weeks after the next T10 meeting.  However, a co located meeting in May is possible and should be in the planning.

## 13. Review of Action Items

405)     Bob Snively with announce the five year review of the standards identified in 01-037r0 on the T10 Reflector.

## 14. Meeting Schedule

The next plenary meeting of T10 will be March 8, 2001 in Dallas, TX at the Crowne Plaza Suites (972-233-7600), hosted by Texas Instruments.  The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

```
                            March '01 Meeting Map
                             (2001/01/19 Version)
Monday 3/5          9   10  11  12  1   2   3   4   5   6   7   8   9
                    +=========+=================================+
                    |  SSC-2 WG / Joint T10/T11.3 WG            |   (20)
                    +=========+=========================+=======+
                    |  SDV WG                           |           (20)
                    +===================================+

Tuesday 3/6    8    9   10  11  12  1   2   3   4   5   6   7   8   9
                    +==========================================+
                    |  Parallel SCSI WG                        |   (35)
                    +===================================+======+
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                | MMC WG                           |         (15)
           +---+=================================+---+
           |T11 ad hocs                              |         (15)
           +-----------------------------------------+

Wednesday 3/7        9   10  11  12  1   2   3   4   5   6   7   8   9
                +=================================================+
                | SCSI Commands, Arch., & Protocol WG         |   (35)
                +================================+===============+
                | MMC WG                         |                 (15)
                +====================+===========+
                | STA Tech           |SFF SSWG/  |                 (15)
                +-------------------+-----------+

Thursday 3/8         9   10  11  12  1   2   3   4   5   6   7   8
                +================+====================+
                | T10 Plenary    | OSD / SRP WG (*)   |           (50)
                +==========+=====+=========+===========+
                          | STA Marcom   |                        (15)
                          +--------------+
 (*) - Meeting begins 1 hour after T10 meeting

Friday 3/9       8   9   10  11  12  1   2   3   4   5
                  +---------------------------+
                  | SCSI Trade Association (STA)|                  (25)
                  +-+---------------------------+
                  | SRP WG                    |                   (15)
                  +---------------------------+
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Meetings marked with == are T10-authorized meetings.
Meetings marked with -- are other groups and may change without notice.


Other T10-authorized meetings:

| Meeting | Date | Location / Contact |
|---------|------|--------------------|
| SBP-3 WG | 1/24-25/01 | Hawaii / Johansson |
| SST WG | 2/7/01 | Huntington Beach, CA / T11 |
| SSC-2 WG | 2/7/01 | Huntington Beach, CA / T11 |
| Joint T10/T11.3 | 2/7/01 | Huntington Beach, CA / T11 |
| Asymmetric | 2/12/01 | Teleconference / Ken Moe |
| SRP WG | 2/20-21/01 | Denver, CO / Cris Simpson {tentative} |
| PIP WG | 2/20-21/01 | Southern CA |
| SSM WG | 2/21-22/01 | Southern CA |
| PIP WG | 4/3-4/01 | Worcester, MA / Madison Cable |
| SSM WG | 4/4-5/01 | Worcester, MA / Madison Cable |
| SST WG | 4/11/01 | Toronto, ONT / T11 |
| PIP WG | 6/12-13/01 | Connecticut / Amphenol |
| SSM WG | 6/13-14/01 | Connecticut / Amphenol |

 Meeting Map Abbreviation Key:

| | |
|---|---|
| Amnd: | Amendment |
| CAP: | Commands, Architecture, and Protocols |
| DVD: | Digital Versatile Device (not an NCITS activity) |
| EPI: | SCSI Enhanced Parallel Interface (Technical Report) |
| Fast-20: | Data Transfer at 20 Mega-transfers/sec. (a.k.a., Ultra) |
| Fast-40: | Data Transfer at 40 Mega-transfers/sec. (a.k.a., Ultra2) |
| Fast-80: | Data Transfer at 80 Mega-transfers/sec. (a.k.a., Ultra3,Ultra160) |
| Fast-160: | Data Transfer at 160 Mega-transfers/sec. (a.k.a., Ultra320) |
| FC: | Fibre Channel |
| FCIP: | Fibre Channel over Internet Protocol |

```
Harbor:      A project on defining a wrapper for physical devices
I/F:         Interface
IETF:        Internet Engineering Task Force (the group that sets
             Internet standards)
iFC:         Internet Fibre Channel
IPS:         Internet Protocol SCSI
iSCSI:       Internet SCSI
LB:          Letter Ballot
MMC:         Multimedia Commands (CD-ROM, DVD, etc.)
OSD:         Object-based Storage Device
Par.:        Parallel (e.g., SPI-n, Domain Validation)
PH:          Physical (Connectors, Cables, Transceivers, etc.)
PIP:         (SCSI) Passive Interconnect Performance
Plenary:     Full Committee Meeting
Res:         Resolution
SBC-2:       SCSI Block Commands - 2
SCSI:        Small Computer System Interface
SDV:         SCSI Domain Validation (Technical Report)
SES:         SCSI Enclosure Services
SFF:         SFF Industry Group (not an NCITS activity)
SG:          Study Group
SMC-2:       SCSI Medium Changer - 2 Commands
SPC-2:       SCSI Primary Commands - 2 (2nd generation)
SPI-4:       Fourth Generation SCSI Parallel Interface
SRP:         SCSI RDMA Protocol (was SVP)
SSC-2:       SCSI Stream Commands - 2 (includes Tape)
SSM:         SCSI Signal Modeling
SST:         SCSI on Scheduled Transfer (ST)
SSWGs:       Specific-Subject Working Groups
STA:         SCSI Trade Association (not an NCITS activity)
STA Marcom:  STA Marketing Communications (not an NCITS activity)
STA Tech:    STA Technical Meeting (T10 members invited)
T10:         Lower Level Interfaces Technical Committee
T11:         Device Level Interfaces Technical Committee
WG:          Working Group (same as Ad Hoc Group)
```

For more information about T10 activities, please contact the following people:

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Other Activities         John Lohmeyer    (719) 533-7560
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```

The long-term T10 meeting week schedule is:

```
Date                  Location                 Host/Comments
------------------    ------------------------ ----------------------------
Mar  5-9, 2001        Dallas, TX               Texas Instruments
Apr 30-May 4, 2001    Manchester, NH           Hitachi Cable
Jul 16-20, 2001       Colorado Springs, CO     LSI Logic
Sep 10-14, 2001       Huntington Beach, CA     QLogic
Nov  5-9, 2001        Monterey, CA             Adaptec
The dates below are approved, the locations and hosts are tentative
Jan 14-18, 2002       Houston, TX              Compaq
Mar 11-15, 2002       Dallas, TX               T.I.
May  6-10, 2002       Ottawa, Ontario, Canada  Quantum
Jul 15-19, 2002       Colorado Springs, CO     LSI Logic
Sep  9-13, 2002       Bay Area                 Adaptec
Nov  4-8, 2002        Huntington Beach, CA     QLogic
```

### 14.1 Authorization of Working Group Meetings

John noted that the working group meetings are required to operate under the same voting procedures as does T10 (that is, one vote per organization) and the results of a working group are not binding on the parent committee. Ad hoc groups should strive to achieve consensus prior to bringing issues to T10.

Erich Oetting moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved.  Mark Evans seconded the motion.  In the absence of any objections, the motion passed unanimously.

## 15.  Adjournment

The meeting was adjourned at 11:50 p.m. on Thursday January 18, 2001.

**Enclosure(1) -- Meeting Attendees**

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        Name            S       Organization       Electronic Mail Address
----------------------  --  ------------------------  ------------------------
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55 People Present


Status Key:  P    -  Principal
             A,A# -  Alternate
             AV   -  Advisory Member
             L    -  Liaison
             V    -  Visitor
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**Enclosure(2) -- T10 Attendance Database**
     Generated on 2001/01/19 at 12:13:53

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T10/01-001R0  Date: 2000/11/28  Author:  John Lohmeyer    Mailing: Missing
Agenda for T10 Meeting #42 (Mar '01)

T10/01-002R0  Date: 2000/11/28  Author:  John Lohmeyer    Mailing: Missing
T10 Project Summary - Jan '01

T10/01-003R0  Date: 2000/11/28  Author:  John Lohmeyer    Mailing: Missing
Jeopardy Letter for Mar '01 meeting

T10/01-004R0  Date: 2000/11/14  Author:  Dan Mazina and   Mailing: 2001_1
                                         Rob Elliott
Logical unit groups

T10/01-005R0  Date: 2001/01/15  Author:  Bill Ham         Mailing: 2001_1
Minutes of SDV WG - January 15, 2001

T10/01-006R0  Date: 2001/01/18  Author:  Weber & Lohmeyer  Mailing: 2001_1
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T10/01-009R0  Date: 2000/11/29  Author:  Rob Elliott      Mailing: 2001_1
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T10/01-010R0  Date: 2000/11/28  Author:  Rob Elliott      Mailing: 2001_1
SRP asynchronous event reporting

T10/01-010R1  Date: 2000/12/03  Author:  Rob Elliott      Mailing: 2001_1
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T10/01-011R0  Date: 2000/12/06  Author:  Dave Peterson    Mailing: 2001_1
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T10/01-012R0  Date: 2000/12/06  Author:  Joe Breher       Mailing: 2001_1
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T10/01-013R0  Date: 2000/12/06  Author:  Umesh Chandra    Mailing: 2001_1
U320 Cable Cross Talk Analysis

T10/01-014R0  Date: 2000/12/12  Author:  Bruce Manildi    Mailing: 2001_1
Backplane Characterization Methodology

T10/01-015R0  Date: 2000/12/08  Author:  Rob Elliott      Mailing: 2001_1
Making Target Reset optional in SAM-2

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                                         Greg Pellegrino
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T10/01-017R0  Date: 2000/12/12  Author:  Bob Nixon        Mailing: 2001_1
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T10/01-021R0  Date: 2000/12/18  Author:  Rob Basham       Mailing: 2001_1
Switching Between Explicit and Implicit Block Address Models

T10/01-022R0  Date: 2000/12/18  Author:  Rob Basham       Mailing: 2001_1
SPACE and LOCATE Commands in the Explicit Block Address Model

T10/01-023R0  Date: 2000/12/20  Author:  Rob Basham       Mailing: 2001_1
Explicit Block Address Model State Diagram

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SPC-2 FIRST BURST SIZE definition

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SPC-3 Access Controls LUN conflicts due to transport IDs

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T10/01-027R0  Date: 2000/12/22  Author:  Robert Griswold   Mailing: 2001_1
Media Serial Number Mode Page Proposal

T10/01-028R0  Date: 2001/01/03  Author:  Greg Pellegrino   Mailing: 2001_1
                                          and Rob Elliott
SRP InfiniBand(tm) annex

T10/01-028R1  Date: 2001/01/16  Author:  Greg Pellegrino   Mailing: 2001_1
                                          and Rob Elliott
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T10/01-029R0  Date: 2001/01/05  Author:  Keith Parker     Mailing: Missing
[SSS] SCSI Socket Services status report 2001-01-17

T10/01-030R0  Date: 2001/01/10  Author:  Bob Snively      Mailing: 2001_1
Ballot comment resolution for comments on FCP-2, revision 05

T10/01-031R0  Date: 2001/01/13  Author:  Bill Galloway     Mailing: 2001_1
QAS Handshake Correction

T10/01-032R0  Date: 2001/01/13  Author:  Bill Galloway     Mailing: 2001_1
Additional Flow Control Timings

T10/01-033R0  Date: 2000/12/07  Author:  Terry Gibbons     Mailing: 2001_1
SDV Technical Report - Testing Methods

T10/01-034R0  Date: 2001/01/12  Author:  George Penokie    Mailing: 2001_1
Internetwork addressing for SRP

T10/01-035R0  Date: 2001/01/12  Author:  Dave Peterson      Mailing: 2001_1
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T10/01-036R0  Date: 2001/01/12  Author:  Dave Peterson      Mailing: Missing
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T10/01-037R0  Date: 2001/01/12  Author:  Kate McMillan      Mailing: 2001_1
2001 Five-Year Maintenance Review of Standards

T10/01-038R0  Date: 2001/01/12  Author:  Cris Simpson       Mailing: 2001_1
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Intel Patent Policy

T10/01-042R0  Date: 2001/01/14  Author:  Wally Bridgewater Mailing: 2001_1
Effects of Precomp compared to no Precomp

T10/01-043R0  Date: 2001/01/15  Author:  Rob Elliott        Mailing: Missing
Minutes of SRP Working Group Meeting - January 18-19, 2001

T10/01-044R0  Date: 2001/01/16  Author:  Dave Peterson      Mailing: 2001_1
iSCSI protocol additions to SPC-2

T10/01-045R0  Date: 2001/01/16  Author:  Bill Petty         Mailing: 2001_1
Actual Precompensation Eye Diagrams

T10/01-046R0  Date: 2001/01/17  Author:  Roger Cummings     Mailing: 2001_1
SAN Management and SCSI Mode Pages

T10/01-047R0  Date: 2001/01/16  Author:  David Black        Mailing: 2001_1
Preliminary iSCSI Conclusions

T10/01-048R0  Date: 2001/01/17  Author:  Julian Satran      Mailing: 2001_1
SCSI ordering after exception on non interlocked transports

T10/01-049R0  Date: 2001/01/13  Author:  Neil Wanamaker     Mailing: 2001_1
Patent statement regarding FCP-2

T10/01-050R0  Date: 2001/01/18  Author:  Bill McFerrin      Mailing: Missing
Minutes of MMC-3 working group meeting

T10/01-051R0  Date: 2001/01/18  Author:  Paul Aloisi        Mailing: 2001_1
STA Report - January 18, 2001

T10/01-052R0  Date: 2001/01/18  Author:  Paul Aloisi        Mailing: 2001_1
SCSI Signal Modeling Report - January 18, 2001

T10/01-053R0  Date: 2001/01/18  Author:  John Lohmeyer      Mailing: Missing
Agenda for T10 Meeting #42 (Mar '01)

T10/01-054R0  Date: 2001/01/18  Author:  John Lohmeyer      Mailing: Missing
T10 Project Summary - Jan '01

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T10/01-055R0  Date: 2001/01/18  Author:  John Lohmeyer     Mailing: Missing
Jeopardy Letter for Mar '01 meeting

T10/01-056R0  Date: 2001/01/19  Author:  Ed Gardner        Mailing: Missing
Connecting to an InfiniBand (tm) Device
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