To: T10 Membership  
From: Ralph Weber / John Lohmeyer  
Subject: Minutes of T10 Plenary Meeting #69 -- September 15, 2005  
Vancouver, BC Canada

Agenda

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5. Document Distribution
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7. Review of Old Action Items
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   8.10 SCSI Architecture Model - 4 (SAM-4) Project 1683-D [Penokie]
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   8.12 Object-Based Storage Devices - 2 (OSD-2) Project 1729-D [Weber]
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15. Adjournment

Results of Meeting

1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:05 a.m., Thursday September 15, 2005. He thanked Rachelle Trent and Kelly Pollock of PMC-Sierra for hosting the meeting.

John said that INCITS subgroup membership forms and the T10 document subscription forms are available on the meeting web site. He said that people should use these forms to ensure the INCITS Secretariat has the latest membership information. These forms should be mailed directly to the INCITS Secretariat.

As is customary, the people attending introduced themselves. Attendance was taken electronically via the meeting web site.

2. Approval of Agenda

No additions/changes were made to the draft agenda.

John Lohmeyer moved and Ralph Weber seconded that the agenda be approved. In the absence of any objections, the motion passed unanimously.

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

   10.6 SBC-3

3. Attendance and Membership

The membership requirements were reviewed. INCITS 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 T10. The individual may begin voting at the beginning of his/her second meeting.

To maintain membership, organizations must pay the INCITS Service Fee ($800).

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 emails to 14 people from 7 organizations informing them that their membership was in jeopardy due to non-attendance (see 05-291r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

Cisco Systems, Inc.
General Dynamics
Hitachi Cable Manchester
McDATA
QLogic Corp.
Storage Technology Corp.
Symantec

John noted that Storage Technology Corp. had been acquired by Sun Microsystems.

All other organizations in attendance jeopardy were present except:

McDATA

The representatives from organizations not present were changed to Advisory (non-voting) status.

Rich Ramos of Xyratex requested and was granted membership at this meeting.

The T10 membership during the meeting was 45 organizations, unchanged from the 45 member organizations extant at the time the meeting was convened. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current T10 membership list.

John Lohmeyer reminded members that failure to vote on two out of the last three letter ballots also would result in membership jeopardy. The current letter ballot jeopardy status is as shown:

<table>
<thead>
<tr>
<th>Ballot:</th>
<th>04-326r0</th>
<th>05-125r0</th>
<th>05-134r0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report:</td>
<td>04-327r0</td>
<td>05-126r0</td>
<td>05-135r0</td>
</tr>
<tr>
<td>Acronym:</td>
<td>SPC-3</td>
<td>SAS-1.1</td>
<td>FCP-3</td>
</tr>
</tbody>
</table>

### Organization

<table>
<thead>
<tr>
<th>Agilent Technologies</th>
<th>DNV</th>
<th>Yes</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crossroads Systems, Inc.</td>
<td>(*)</td>
<td>Yes</td>
<td>DNV</td>
</tr>
<tr>
<td>QLogic Corp.</td>
<td>DNV</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Key:**

- **Yes**: Organization voted Yes
- **No**: Organization voted No
- **Abs**: Organization voted Abstain
- **DNV**: Organization failed to return letter ballot
- **--**: Organization was not a voting member for the letter ballot
- **(*)**: Organization is in letter ballot jeopardy (and has voluntarily changed to Advisory status)

4. **Approval of Minutes - July 2005 - Colorado Springs, CO (T10/05-275r0)**

Roger Cummings reported that the July minutes incorrectly stated the date on which meeting was called to order. The date was May 5 and it should have been July 14.

John Lohmeyer moved and Ralph Weber seconded that the minutes be approved with the exception noted above. In the absence of any objections, the motion passed unanimously.

5. **Document Distribution**

Members who have any problems with their mailing subscription should deal directly with Parthenia Purnell (ppurnell@itic.org) (202) 626-5741. A subscription form is included on the meeting disk.

John Lohmeyer requested that all documents for the next mailing be uploaded to the T10 web site by 10:30 a.m. on Thursday September 22, 2005. 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.

People can obtain T10 document numbers and revised T10 document numbers by filling out a web form at http://www.t10.org/members/. The assigned T10 document number will be sent to the requestor by e-mail. The requestor may then reply to this email, including the document to be posted as an attachment. The document will be automatically posted on the T10 web site.

T10 members can complete this entire process using their personal T10 password. John explained that members who do not know their password should surf to the above URL and click on the “forgot password” link to have their password sent to them via e-mail.

John noted that non-members can also use the above document number process, but their requests will require approval by an administrator.
Minutes of T10 Plenary Meeting #69 -- September 15, 2005

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 e-mail to majordomo@t10.org with the line 'subscribe t10' in the message body.

The INCITS Secretariat maintains a World Wide Web page at:

http://www.incits.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 T10 document register is available at:

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

6. Call for Patents

John Lohmeyer explained that this is a regular agenda item to identify any potential patent issues with developing standards and technical reports.

For additional information on ANSI procedures and the ANSI patent policy, please see the INCITS web page at http://www.incits.org/call.htm. The contact for INCITS patent issues is Lynn Barra (lbarra at itic dot org) or (202) 626-5739. 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 Lohmeyer presented a summary of the ANSI patent policy prepared by Gary Robinson. The summary is also included on the Rules and Procedures (plus Patent Information) page on the T10 web site.

Bob Sheffield reminded the committee that a statement of the Intel patent policy can be found in T10/01-041r0.

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

There were no other responses to the call for patents other than those mentioned above.

7. Review of Old Action Items

603 Gary Robinson will notify INCITS that T10 recommends T10/04-1216r0 as a JTC1/SC25 NWIP for 14776-151: IT - Small Computer System Interface (SCSI) - 1.1. -Part 151: Serial Attached SCSI (SAS-1.1), answering the 6 questions 'Yes' and naming Gary S. Robinson as the project editor. Complete

607 Gary Robinson will notify the JTC1/SC25 TAG that T10 has reviewed FCD, SBC-2, 14776-322, project 1.25.13.11.31 and recommends a vote to approve it. Complete

608 Gary Robinson will notify INCITS that T10 recommends the following list of delegates to the JTC1/SC25 and WG4 meeting September 2005 in Edinburgh, UK: Robert Snively (head of delegation), Roger Cummings, and Claudio DeSanti. Complete

Gary Robinson will notify INCITS that T10 has reviewed the 14776-341:2000 Information Technology -- Small Computer System Interface-3 (SCSI-3) -- Part 341: SCSI Controller Commands (SCC) and recommends that the JTC1 TAG vote to withdraw it. Complete


8. Project Status Reports

8.1 Project Status Summary and INCITS Liaison [Lohmeyer]

John Lohmeyer said that the current T10 project status summary was included on the meeting web site and will be included in the mailing as usual.

Gary Robinson reported that INCITS will probably take over the SC25 TAG.

Gary noted that he will be unable to attend the October 11-13 INCITS meetings in Santa Clara, but Bob Snively will represent T10, T11, and T13 at these meetings since he is local. This is fortunate because keeping the TC’s web sites and reflectors open is an important issue for Bob.

8.1.1 INCITS Antitrust Guidelines

All T10 members should be aware of the INCITS antitrust guidelines available at http://www.incits.org/natrust.htm.

John reminded committee members that all persons present at a T10 meeting is responsible for identifying potential violations of the antitrust guidelines and reporting them to the chair. Discussions of the following topics are considered sensitive:

* 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.

8.2 SCSI Primary Commands - 3 (SPC-3) Project 1416-D [Weber]

Ralph Weber reported that no new news had been received since the July meeting. Publication is still anticipated in the next month or so.
8.3 Bridge Controller Commands (BCC) Project 1528-D [Elliott]

Rob Elliott reported that an issue discussed at the CAP meeting (minutes in 05-337) may result in more BCC activity. George Penokie noted there might be other proposals written for BCC.

8.4 MultiMedia Command Set - 4 (MMC-4) Project 1545-D [McFerrin]

John Lohmeyer reported that MMC-4 has been published as INCITS 401-2005. He congratulated Bill McFerrin, the MMC-4 Project Editor.

8.5 SCSI Enclosure Services - 2 (SES-2) Project 1559-D [Elliott]

Rob Elliott reported that no SES-2 proposals were recommended this week. Consequently, no new revision will be generated until at least after the November meeting.

8.6 Fibre Channel Protocol - 3 (FCP-3) Project 1560-D [Peterson]

On behalf of the absent Dave Peterson, Bob Nixon presented a report on the activities of the FCP-3 working group (minutes in 05-343).

Bob Nixon moved that 05-173r5 be approved as containing the resolutions for the FCP-3 letter ballot, that FCP-3 r04 be accepted as incorporating the letter ballot comment resolutions, and that FCP-3 r04 be forwarded to INCITS for further processing towards first public review. Bill Martin seconded the motion. The motion passed 42:0:0:3=45.

Based on the successful resolution of the FCP-3 letter ballot comments George Penokie asked that the IBM No vote on the letter ballot be changed to Yes. Based on the successful resolution of the FCP-3 letter ballot comments Gerry Houlder asked that the Seagate No vote on the letter ballot be changed to Yes.

John Lohmeyer took an action item to forward FCP-3 r04 to INCITS for further processing towards first public review.

8.7 Serial Attached SCSI - 1.1 (SAS-1.1) Project 1601-D [Elliott]

Rob Elliott reported that in addition to the SAS-1.1 issues resolved by the SAS Protocol working group two new issues have been discovered.

Minutes of the SAS protocol working group are in 05-335 and the SAS PHY working group are in 05-354.

The SAS Protocol-Specific log page incorrectly shows the log page code value as 8 bits, when it should be 6 bits. In addition, a problem in the ACK/NAK Balance Point in transport layer frame retries required a wording correction in one paragraph.

The committee agreed to make the necessary changes and Rob agreed to include them in 05-169r5.

Rob Elliott moved that 05-169r5 be approved as containing the resolutions for the SAS-1.1 letter ballot, that SAS-1.1 r10 accepted as incorporating the letter ballot comment resolutions, and that SAS-1.1 r10 be forwarded to INCITS for further processing towards first public review. Mark Evans seconded the motion. The motion passed 42:0:0:3=45.

Based on the successful resolution of the SAS-1.1 letter ballot comments Kevin Marks asked that the Dell No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments Bob Nixon asked that the Emulex No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments Rob Elliott asked that the Hewlett Packard No vote on the letter ballot be
changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments George Penokie asked that the IBM No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments Bob Sheffield asked that the Intel No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments John Lohmeyer asked that the LSI Logic No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments Mark Evans asked that the Maxtor No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments Jay Neer asked that the Molex No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments Gerry Houlder asked that the Seagate No vote on the letter ballot be changed to Yes. Based on the successful resolution of the SAS-1.1 letter ballot comments Ashlie Fan asked that the Tyco No vote on the letter ballot be changed to Yes.

Rob Elliott took an action item to prepare 05-169r5 and SAS-1.1 r10. John Lohmeyer took an action item to forward SAS-1.1 r10 to INCITS for further processing towards first public review.

8.8 SCSI Stream Commands - 3 (SSC-3) Project 1611-D [Peterson]

On behalf of the absent Dave Peterson, Paul Entzel presented a report summarizing the activities of the SSC-3 working group (minutes in 05-356).

8.9 MultiMedia Command Set - 5 (MMC-5) Project 1675-D [McFerrin]

Bill McFerrin reported that the MMC-5 group spent the bulk of its time reviewing the document as it stands. Clause 4 is almost stabilized.

8.10 SCSI Architecture Model - 4 (SAM-4) Project 1683-D [Penokie]

George Penokie reported that a new revision of SAM-4 will be generated incorporating all approved proposals and that the revision should be ready in time for the mailing.

8.11 SCSI / ATA Translation (SAT) Project 1711-D [Sheffield]

Bob Sheffield reviewed the recent SAT activities (minutes in 05-323 and 05-336). SAT r06 will be prepared to incorporate all approved proposals in time for the next mailing. The target for Letter Ballot is after the January meeting week.

8.12 Object-Based Storage Devices - 2 (OSD-2) Project 1729-D [Weber]

Ralph Weber reported that four proposals for enhancing OSD-2 have been posted and discussed by the CAP Working Group (minutes in 05-337). A new OSD-2 revision will be posted when the SNIA OSD TWG decides it is ready, which will not be in time for the mailing.

8.13 SCSI Media Changer Command Set - 3 (SMC-3) Project 1730-D [Banther]

Michael Banther reported on the activities of the SMC-3 working group (minutes in 05-353). No new revision of SMC-3 is anticipated at this time.

8.14 SCSI Primary Commands - 4 (SPC-4) Project 1731-D [Weber]

Ralph Weber reported that SPC-4 r02 will be posted to incorporate all approved proposals in time for the mailing.

8.15 Serial Attached SCSI Driver Interface (SDI) Project 1740-D [Elliott]

Rob Elliott noted that any changes to the SDI will be handled in the CAP working group and that no changes are currently proposed. Now that SAS-1.1 is forwarded more SDI work may be begun.
8.16 Automation/Drive Interface - Commands - 2 (ADC-2) Project 1741-D [Suhler]

Paul Suhler reported on the activities of the ADI working group (minutes in 05-329).


Paul Suhler reported on the activities of the ADI working group (minutes in 05-329).

8.18 Serial Attached SCSI - 2 (SAS-2) Project 1760-D [Elliott]

Rob Elliott reported that several SAS-2 proposals have been recommended. A SAS-2 revision will be posted containing all approved proposals, maybe in time for the mailing.

The SAS Phy group has begun work on 6 Gbs features. SAS modeling data is being collected for SAS-2 Phy development work. He asked interested people to contact himself or Alvin Cox.

9. Old Business

There was no old business.

10. New Business

10.1 Actions on SAS Protocol Working Group Recommendations

The recommendations from the SAS protocol working group (minutes in 05-335) were presented to the committee.

George Penokie reviewed the following proposals recommended for inclusion in SAS-2:

- 05-307r0 (Modifications to 05-167r5, New NOTIFY to indicate imminent power failure) [Evans]
- 05-305r0 (Maximum SMP response time) [Elliott]

Rob Elliott moved that 05-307r0 and 05-305r0 be approved for inclusion in SAS-2. Mark Evans seconded the motion. The motion passed on a vote of 36:0:2:7=45.

10.2 Actions on SAS PHY Working Group Recommendations

There were no recommendations made by the SAS physical working group (minutes in 05-354).

10.3 Actions on SAT Working Group Recommendations

The recommendations from the SAT working group (minutes in 05-336) were presented to the committee.

Bob Sheffield reviewed the following proposals recommended for inclusion in SAT:

- 05-142r4 (LOG SENSE command and SMART) [Bellamy]
- 05-247r3 (Add 16-byte CDBs and PIO modes) [Sheffield]
- 05-108r3 (SAT Task Management) [Johnson]
- 05-226r3 (START STOP UNIT command mapping) [Evans]

Mark Overby moved that 05-142r4, 05-247r3, 05-108r3, and 05-226r3 be approved for inclusion in SAT. Bob Sheffield seconded the motion. The motion passed on a vote of 35:0:6:4=45.
10.4 Actions on CAP Working Group Recommendations

The recommendations from the CAP working group (minutes in 05-337) were presented to the committee.

George Penokie reviewed 05-301r0 (iSCSI allows portal group tag of zero) [Elliott] a proposal recommended for SAM-4.

George Penokie reviewed the following proposals recommended for SPC-4:

- 05-296r0 (Persistent Reservations PREEMPT AND ABORT Clarification) [Weber]
- 05-331r1 (Allow Mode Sense Through Read Only Persistent Reservation) [Penokie]

George Penokie reviewed 05-313r0 (Change to background medium scan) [Houlder] a proposal recommended for SBC-3.


Ralph Weber moved that 05-301r0 be approved for SAM-4; that 05-296r0, 05-331r1, and 05-337r0 be approved for SPC-4; that 05-313r0 be approved for SBC-3; and that 05-299r1 be approved for SPC-4, SBC-3, and SAS-2. Mark Evans seconded the motion. The motion passed on a vote of 42:0:0:3=45.

10.5 Actions on Other Working Group Recommendations

The only other working group action presented for committee consideration was the forwarding recommendation for FCP-3 (see item 8.6).

10.6 SBC-3

George Penokie noted that proposed SBC-3 documents have been posted as 05-344r0 for r0 contents and 05-354r0 for r1 contents. He suggested that a SBC-3 project proposal be prepared in time for consideration at the next meeting.

11. ISO/IEC

11.1 ISO/IEC Report [Robinson]

Gary Robinson presented the ISO/IEC report (05-332).

11.2 ISO/IEC Business [Robinson]

No new ISO business was brought before the committee.

12. Liaison Reports

12.1 T11 Liaison Report [Snively]

On behalf of the absent Bob Snively, Claudio DeSanti presented the T11 liaison report contained in T10/05-333.
12.2 T13 Liaison Report [Colegrove]

Dan Colegrove provided an oral report to the committee on the activities of T13. New proposals have been closed for the ATA/ATAPI-8 family of standards. For details regarding T13 activities see www.t13.org.

12.3 SFF Industry Group [Allan]

In the absence of Dal Allan, no report was available.

12.4 IEEE 1394 [Johansson]

In the absence of Peter Johansson, no report was available.

12.5 SCSI Trade Association (STA) [Czekalski]

On behalf the absent Marty Czekalski, Harry Mason presented an electronic report on the activities of the SCSI Trade Association available in 05-362r0.

12.6 IETF SCSI over IP [Black/Robinson]

David Black reported that an iSCSI Implementer’s Guide document is in progress and it will be open for inputs for at least a year. Input ideas should be sent to the IPS reflector (ips@ietf.org). The iSER document is technically complete but several crank-turning steps remain before it is a finished RFC.

12.7 SNIA [Cummings]

Roger Cummings made an oral report to the group and provided an electronic copy in 05-347r0.

12.8 Trusted Computing Group [Fitzpatrick]

Mike Fitzpatrick reported verbally on the activities of the TCG. The storage working group meeting schedule has changed. The trusted commands are being reviewed and enhanced in the CAP working group (minutes in 05-337).

13. Review of Action Items

612 John Lohmeyer will forward FCP-3 r04 to INCITS for further processing towards first public review.
613 Rob Elliott will prepare 05-169r5 and SAS-1.1 r10.
614 John Lohmeyer will forward SAS-1.1 r10 to INCITS for further processing towards first public review.

14. Meeting Schedule

The next plenary meeting of T10 will be Thursday November 10, 2005 in Austin, TX at the Diskill Hotel (512-474-5911) hosted by Dell, Inc. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:
November 2005 Meeting Map
(2005/09/15 Version)

Monday 11/07
9 10 11 12 1 2 3 4 5 6 7 8
+=================================
| ADI-2 WG          | SMC-3 WG          | (10)
+=================================
| SAS Prot WG       |
+=================================
| Mt Fuji *         |
+-------------------
| STA 6GB           | (60)
+-------------------

Tuesday 11/08
9 10 11 12 1 2 3 4 5 6 7 8
+=================================
| SAS Physical WG   | (45)
+=================================
| SCSI/ATA Trans WG| (30)
+=================================
| STA Marcom *      | (35)
+-------------------
| FCP-4 SG/ SSC-3 WG| (15)
+-------------------
| MMC WG            | (25)
+-------------------
| T11 ad hoc ???    | (15)

Wednesday 11/09
9 10 11 12 1 2 3 4 5 6 7 8
+=================================
| CAP WG             | (40)
+=================================
| MMC WG             | (25)
+=================================
| SFF                | (30)
+-------------------
| STA Plenary * / TCC*| (20)
+-------------------
| T11 ad hoc ???    | (15)

Thursday 11/10
9 10 11 12 1 2 3 4 5 6 7 8
+=================================
| T10 Plenary        | T10 Editors Meeting| (50/10)
+=================================

Friday 11/11
9 10 11 12 1 2 3 4 5 6 7 8
No meetings planned for Friday.

/ means the next meeting starts when the previous meeting concludes.
Meetings marked with == are T10-authorized meetings.
Meetings marked with -- are other groups and may change without notice.
Meetings marked with (*) are closed meetings of other groups.
Other T10-authorized meetings:

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Date</th>
<th>Location / Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS PHY Calls</td>
<td>TBA</td>
<td>TBA via T10 reflector / Cox</td>
</tr>
<tr>
<td>SAS Prot Calls</td>
<td>TBA</td>
<td>TBA via T10 reflector / Elliott</td>
</tr>
<tr>
<td>SAT Call</td>
<td>Oct 7 10 am PDT</td>
<td>TBA via T10 reflector / Sheffield</td>
</tr>
<tr>
<td>Trusted Call</td>
<td>Oct 12 2:00pm CDT</td>
<td>TBA via T10 reflector / Houlder</td>
</tr>
<tr>
<td>SAT WG</td>
<td>Mon Oct 17 9am-5pm</td>
<td>Las Vegas, NV, CO (T13) / Sheffield</td>
</tr>
<tr>
<td>MMC WG</td>
<td>Tue-Fri Nov 1-4</td>
<td>Llano, TX / McFerrin</td>
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<tr>
<td>Style Call</td>
<td>Oct 13</td>
<td>TBA via T10 reflector / Penokie</td>
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<tr>
<td>Style Call</td>
<td>Oct 27</td>
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</tbody>
</table>

Map Abbreviation Key:
- ADI: Automation Drive Interface (tape library interface)
- Amnd: Amendment
- CAP: Commands, Architecture, and Protocols
- 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
- 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)
- PH or PHY: Physical (Connectors, Cables, Transceivers, etc.)
- PIP: (SCSI) Passive Interconnect Performance
- Plenary: Full Committee Meeting
- Res: Resolution
- SAS: Serial Attached SCSI
- SBC-2: SCSI Block Commands - 2
- SBP-3: Serial Bus Protocol - 3
- SCI: Small Computer System Interface
- SDI: Serial Attached SCSI Driver Interface
- SES: SCSI Enclosure Services
- SFF: SFF Industry Group (not an INCITS activity)
- SG: Study Group
- SMC-2: SCSI Medium Changer - 2 Commands
- SPC-3: SCSI Primary Commands - 2 (3rd generation)
- SPI-4: Fourth Generation SCSI Parallel Interface
- SPI-5: Fifth Generation SCSI Parallel Interface
- SRP: SCSI RDMA Protocol (was SVP)
- SRP-2: SCSI RDMA Protocol (2nd generation)
- SSC-2: SCSI Stream Commands - 2 (includes Tape)
- SSM-2: SCSI Signal Modeling (2nd generation)
- SSWG: Specific-Subject Working Groups
- STA: SCSI Trade Association (Closed meeting -- not an INCITS activity)
- STA Marcom: STA Marketing Communications (Closed meeting -- not an INCITS activity)
- STA Tech: STA Technical Meeting (T10 members invited)
- STP: Serial ATA Tunneled Protocol
- T10: SCSI Storage 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:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Contact</th>
<th>Telephone/Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADT, ADT-2</td>
<td>Paul Entzel</td>
<td>(720) 406-5782 <a href="mailto:paul.entzel@quantum.com">paul.entzel@quantum.com</a></td>
</tr>
<tr>
<td>ADC, ADC-2</td>
<td>Rod Wideman</td>
<td>(720) 249-5796 <a href="mailto:rod.wideman@adic.com">rod.wideman@adic.com</a></td>
</tr>
<tr>
<td>SBC-2, SES-2, SAS-1.1, SAS-2, BCC, SDI</td>
<td>Rob Elliott</td>
<td>(281) 518-5037 <a href="mailto:Elliott@hp.com">Elliott@hp.com</a></td>
</tr>
<tr>
<td>MMC-4, MMC-5</td>
<td>Bill McFerrin</td>
<td>(325) 423-1560 <a href="mailto:billmc@tstar.net">billmc@tstar.net</a></td>
</tr>
<tr>
<td>SBP-3</td>
<td>Peter Johansson</td>
<td>(510) 527-3926 <a href="mailto:PJohansson@ACM.org">PJohansson@ACM.org</a></td>
</tr>
<tr>
<td>SAM-4</td>
<td>George Penokie</td>
<td>(507) 253-5208 <a href="mailto:gop@us.ibm.com">gop@us.ibm.com</a></td>
</tr>
<tr>
<td>SAT</td>
<td>Bob Sheffield</td>
<td>(480) 554-8597 <a href="mailto:robert.l.sheffield@intel.com">robert.l.sheffield@intel.com</a></td>
</tr>
<tr>
<td>SMC-2</td>
<td>Erich Oetting</td>
<td>(303) 673-2178 <a href="mailto:Erich_Oetting@Stortek.com">Erich_Oetting@Stortek.com</a></td>
</tr>
<tr>
<td>SMC-3</td>
<td>Noud Snelder</td>
<td>+31408446108 <a href="mailto:Noud.snelder@bdt.de">Noud.snelder@bdt.de</a></td>
</tr>
<tr>
<td>SPC-3, SAM-3, SPC-4, OSD-2</td>
<td>Ralph Weber</td>
<td>(214) 912-1373 <a href="mailto:roweber@acm.org">roweber@acm.org</a></td>
</tr>
<tr>
<td>SSC-3, FCP-3</td>
<td>Dave Peterson</td>
<td>(763) 268-6139 <a href="mailto:david.peterson@mcdata.com">david.peterson@mcdata.com</a></td>
</tr>
<tr>
<td>Other Activities</td>
<td>John Lohmeyer</td>
<td>(719) 533-7560 <a href="mailto:lohmeyer@t10.org">lohmeyer@t10.org</a></td>
</tr>
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</table>

The long-term T10 meeting week schedule is:

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Host/Comments</th>
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</thead>
<tbody>
<tr>
<td>Nov 7-11, 2005</td>
<td>Austin, TX</td>
<td>Dell Computer</td>
</tr>
<tr>
<td>Jan 9-13, 2006</td>
<td>Phoenix, AZ</td>
<td>Intel Corp.</td>
</tr>
<tr>
<td>Mar 6-10, 2006</td>
<td>Hilton Head, SC</td>
<td>SCSI Trade Association</td>
</tr>
<tr>
<td>May 8-12, 2006</td>
<td>Seattle, WA</td>
<td>Nvidia Corp.</td>
</tr>
<tr>
<td>Jul 10-14, 2006</td>
<td>Colorado Springs, CO</td>
<td>LSI Logic</td>
</tr>
<tr>
<td>Sep 11-15, 2006</td>
<td>Nashua, NH</td>
<td>Hitachi Cable Manchester</td>
</tr>
<tr>
<td>Nov 6-10, 2006</td>
<td>Las Vegas, NV</td>
<td>Hitachi GST</td>
</tr>
<tr>
<td>Approved dates for 2007:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan 15-19, 2007</td>
<td>Orlando, FL</td>
<td>Symantec</td>
</tr>
<tr>
<td>Mar 12-16, 2007</td>
<td>Orlando, FL</td>
<td>Symantec</td>
</tr>
<tr>
<td>May 7-11, 2007</td>
<td>Orlando, FL</td>
<td>Symantec</td>
</tr>
<tr>
<td>Jul 9-13, 2007</td>
<td>Colorado Springs, CO</td>
<td>LSI Logic</td>
</tr>
<tr>
<td>Sep 17-21, 2007</td>
<td>(to avoid conflicts with the Jewish High Holy Days)</td>
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</tr>
<tr>
<td>Nov 5-9, 2007</td>
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<tr>
<td>Proposed dates for 2008:</td>
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<tr>
<td>Jan 14-18, 2008</td>
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<tr>
<td>Mar 10-14, 2008</td>
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<td>Sep 8-12, 2008</td>
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<tr>
<td>Nov 3-7, 2008</td>
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</table>

John Lohmeyer asked people interested hosting one of the above meetings to contact him.
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.

Kevin Marks moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved through the end of October 2005. Erich Oetting seconded the motion. In the absence of any objections, the motion passed unanimously.

15. Adjournment

John Lohmeyer moved and Ralph Weber seconded that the meeting be adjourned. In the absence of any objections, the motion passed unanimously. The meeting was adjourned at 10:55 a.m. on Thursday September 15, 2005.
Enclosure(1) -- Meeting Attendees

<table>
<thead>
<tr>
<th>Name</th>
<th>S</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. William Lynn</td>
<td>P</td>
<td>Adaptec, Inc.</td>
</tr>
<tr>
<td>Ms. Pat Thaler</td>
<td>P</td>
<td>Agilent Technologies</td>
</tr>
<tr>
<td>Mr. Ron Roberts</td>
<td>A</td>
<td>Broadcom Corp.</td>
</tr>
<tr>
<td>Mr. Steven Wilson</td>
<td>A</td>
<td>Brocade Comm. Systems, Inc.</td>
</tr>
<tr>
<td>Dr. Claudio DeSanti</td>
<td>P</td>
<td>Cisco Systems, Inc.</td>
</tr>
<tr>
<td>Mr. Doug Cole</td>
<td>A</td>
<td>Dallas Semiconductor</td>
</tr>
<tr>
<td>Mr. Kevin Marks</td>
<td>P</td>
<td>Dell, Inc.</td>
</tr>
<tr>
<td>Mr. David Black</td>
<td>A</td>
<td>EMC Corp.</td>
</tr>
<tr>
<td>Mr. Gary S. Robinson</td>
<td>P</td>
<td>EMC Corp.</td>
</tr>
<tr>
<td>Mr. Robert H. Nixon</td>
<td>P</td>
<td>Emulex</td>
</tr>
<tr>
<td>Mr. Ralph O. Weber</td>
<td>P</td>
<td>ENDL Texas</td>
</tr>
<tr>
<td>Mr. Douglas Wagner</td>
<td>P</td>
<td>FCI</td>
</tr>
<tr>
<td>Mr. Elwood Parsons</td>
<td>P</td>
<td>Foxconn Electronics</td>
</tr>
<tr>
<td>Mr. Mike Fitzpatrick</td>
<td>P</td>
<td>Fujitsu</td>
</tr>
<tr>
<td>Mr. Nathan Hastad</td>
<td>P</td>
<td>General Dynamics</td>
</tr>
<tr>
<td>Mr. Michael Banther</td>
<td>V</td>
<td>Hewlett Packard Co.</td>
</tr>
<tr>
<td>Mr. Rob Elliott</td>
<td>P</td>
<td>Hewlett Packard Co.</td>
</tr>
<tr>
<td>Mr. Mike Guzman</td>
<td>A</td>
<td>Hitachi Cable Manchester</td>
</tr>
<tr>
<td>Mr. Dan Colegrove</td>
<td>P</td>
<td>Hitachi Global Storage Tech.</td>
</tr>
<tr>
<td>Mr. George O. Penokie</td>
<td>P</td>
<td>IBM / Tivoli Systems</td>
</tr>
<tr>
<td>Mr. Robert Sheffield</td>
<td>P</td>
<td>Intel Corp.</td>
</tr>
<tr>
<td>Mr. Fernando Gomez</td>
<td>V</td>
<td>LeCroy Corporation</td>
</tr>
<tr>
<td>Mr. Mike Micheletti</td>
<td>V</td>
<td>LeCroy Corporation</td>
</tr>
<tr>
<td>Mr. Martin Furuhjelm</td>
<td>A</td>
<td>Lexar Media, Inc.</td>
</tr>
<tr>
<td>Mr. John Lohmeyer</td>
<td>P</td>
<td>LSI Logic Corp.</td>
</tr>
<tr>
<td>Mr. Harry Mason</td>
<td>V</td>
<td>LSI Logic Corp.</td>
</tr>
<tr>
<td>Mr. Avraham Shimor</td>
<td>P</td>
<td>M-Systems</td>
</tr>
<tr>
<td>Mr. Mark Evans</td>
<td>P</td>
<td>Maxtor Corp.</td>
</tr>
<tr>
<td>Mr. David Walp</td>
<td>V</td>
<td>Microsoft Corp.</td>
</tr>
<tr>
<td>Mr. Jay Neer</td>
<td>P</td>
<td>Molex Inc.</td>
</tr>
<tr>
<td>Mr. Mark Overby</td>
<td>P</td>
<td>Multivista Corp.</td>
</tr>
<tr>
<td>Mr. James Williams</td>
<td>AV</td>
<td>Oracle</td>
</tr>
<tr>
<td>Dr. Terence J. Nelson</td>
<td>P</td>
<td>Panasonic Technologies, Inc</td>
</tr>
<tr>
<td>Mr. William P. McFerrin</td>
<td>P</td>
<td>Philips Electronics/CD Edge</td>
</tr>
<tr>
<td>Mr. Tim Symons</td>
<td>P</td>
<td>PMC-Sierra</td>
</tr>
<tr>
<td>Mr. Craig W. Carlson</td>
<td>A</td>
<td>QLogic Corp.</td>
</tr>
<tr>
<td>Mr. Paul Entzel</td>
<td>P</td>
<td>Quantum Corp.</td>
</tr>
<tr>
<td>Dr. Paul Suhler</td>
<td>A</td>
<td>Quantum Corp.</td>
</tr>
<tr>
<td>Mr. Alvin Cox</td>
<td>V</td>
<td>Seagate Technology</td>
</tr>
<tr>
<td>Mr. Gerald Houlder</td>
<td>P</td>
<td>Seagate Technology</td>
</tr>
<tr>
<td>Mr. William Martin</td>
<td>P</td>
<td>Sierra Logic, Inc.</td>
</tr>
<tr>
<td>Mr. Vit Novak</td>
<td>P</td>
<td>Sun Microsystems, Inc.</td>
</tr>
<tr>
<td>Mr. Erich Oetting</td>
<td>A#</td>
<td>Sun Microsystems, Inc.</td>
</tr>
<tr>
<td>Mr. Roger Cummings</td>
<td>P</td>
<td>Symantec</td>
</tr>
<tr>
<td>Mr. Robert Kando</td>
<td>A</td>
<td>Texas Instruments</td>
</tr>
<tr>
<td>Mr. Yutaka Arakawa</td>
<td>P</td>
<td>Toshiba</td>
</tr>
<tr>
<td>Ms. Ashlie Fan</td>
<td>P</td>
<td>TycoElectronics</td>
</tr>
<tr>
<td>Mr. Dan Gorenc</td>
<td>A</td>
<td>TycoElectronics</td>
</tr>
<tr>
<td>Mr. David Allen</td>
<td>A</td>
<td>Vitesse Semiconductor</td>
</tr>
<tr>
<td>Mr. Curtis Stevens</td>
<td>P</td>
<td>Western Digital</td>
</tr>
<tr>
<td>Mr. Jeff Williams</td>
<td>P</td>
<td>Xiotech Corp.</td>
</tr>
<tr>
<td>Mr. Rich Ramos</td>
<td>V</td>
<td>Xyratex</td>
</tr>
</tbody>
</table>

52 People Present
Status Key:  P  -  Principal
            A,A# -  Alternate
            AV  -  Advisory Member
            L   -  Liaison
            V   -  Visitor
Enclosure(2) -- T10 Attendance Database
Generated on 2005/09/19 at 16:05:20

Mr. William Lynn (P)                  Phone: (303) 589-4655
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Broadcom Corp.                      Fax: 

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Painesville, OH 44077

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Painesville, OH 44077

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1 Microsoft Way                   Email: emhill at microsoft dot com
Redmond, WA 98052
<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Address 1</th>
<th>Address 2</th>
<th>Telephone 1</th>
<th>Telephone 2</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. William Martin</td>
<td>(P)</td>
<td>1280 Disc Drive</td>
<td>M.S. SHK231</td>
<td>(916) 772-3658</td>
<td>-</td>
<td><a href="mailto:jim@seagate.com">jim@seagate.com</a></td>
</tr>
<tr>
<td></td>
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<td>Shakopee, MN 55379</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. Narayan Ayalasomayajula</td>
<td>(A)</td>
<td>9083 Foothills Blvd., #300</td>
<td>Sierra Logic, Inc.</td>
<td>(916) 772-1234 x116</td>
<td>(916) 771-1811</td>
<td><a href="mailto:narayan@sierralogic.com">narayan@sierralogic.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Roseville, CA 95747</td>
<td></td>
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</tr>
<tr>
<td>Mr. Vit Novak</td>
<td>(P)</td>
<td>7777 Gateway Blvd.</td>
<td>Sun Microsystems, Inc.</td>
<td>(510) 936-3284</td>
<td>(510) 936-2527</td>
<td><a href="mailto:vit@sun.com">vit@sun.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Newark, CA 94560</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Mr. Charles Binford</td>
<td>(A)</td>
<td>3450 N. Rock Rd., Suite 301</td>
<td>Sun Microsystems, Inc.</td>
<td>(316) 315-0382 x222</td>
<td>(509) 756-4425</td>
<td><a href="mailto:Charles@sun.com">Charles@sun.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wichita, KS 67226</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. Erich Oetting</td>
<td>(A#)</td>
<td>2270 South 88th St.</td>
<td>Sun Microsystems, Inc.</td>
<td>(303) 673-2178</td>
<td></td>
<td><a href="mailto:erich@stortek.com">erich@stortek.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Louisville, CO 80028-4272</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mr. Roger Cummings</td>
<td>(P)</td>
<td>Post Stop HRO3-3</td>
<td>Symantec</td>
<td>(407) 357-7257</td>
<td></td>
<td><a href="mailto:roger@symantec.com">roger@symantec.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1001 Heathrow Park Lane</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mr. Greg Wheeless</td>
<td>(A)</td>
<td>Post Stop HRO3-2</td>
<td>Symantec</td>
<td>(407) 357-7133</td>
<td>(407) 357-7590</td>
<td><a href="mailto:greg@symantec.com">greg@symantec.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1001 Heathrow Park Lane</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mr. Halvard Eriksen</td>
<td>(AV)</td>
<td>Tandberg Data ASA</td>
<td>Tandberg Data ASA</td>
<td>+47-22189090</td>
<td></td>
<td><a href="mailto:halvard@tandberg.com">halvard@tandberg.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PO Box 134 Kjelsas</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mr. Anders Emil Olsen</td>
<td>(AV)</td>
<td>Tandberg Data ASA</td>
<td>Tandberg Data ASA</td>
<td>+47-22189090</td>
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<td><a href="mailto:anders@tandberg.com">anders@tandberg.com</a></td>
</tr>
<tr>
<td></td>
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