To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: Minutes of T10 Plenary Meeting #76 -- November 9, 2006
Las Vegas, NV

Agenda

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4. Approval of Minutes - September 2006 - Nashua, NH (T10/06-417r0)
5. Document Distribution
6. Call for Patents
7. Review of Old Action Items
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   8.1.1 INCITS Antitrust Guidelines
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   8.3 SCSI Enclosure Services - 2 (SES-2) Project 1559-D [Elliott]
   8.4 SCSI Stream Commands - 3 (SSC-3) Project 1611-D [Peterson]
   8.5 MultiMedia Command Set - 5 (MMC-5) Project 1675-D [McFerrin]
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   8.12 Automation/Drive Interface - Commands - 2 (ADC-2) Project 1741-D [Suhler]
   8.14 Serial Attached SCSI - 2 (SAS-2) Project 1760-D [Elliott]
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   10.4 Actions on CAP Working Group Recommendations
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   12.1 T11 Liaison Report [Snively]
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Results of Meeting

1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday November 9, 2006. He thanked Dan Colegrove of Hitachi GST 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.

No items were added or modified in the agenda during the course of the meeting.

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. People who continue to attend T10 meetings are expected to join T10 and to pay INCITS Service Fees.

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

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 3 people from 2 organizations informing them that their membership was in jeopardy due to non-attendance (see 06-440r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

Amphenol Interconnect
Pivot3, Inc.

All organizations in attendance jeopardy were present.

Had any organizations not been present their representatives would have been changed to Advisory (non-voting) status.

Since the last T10 meeting, Emulex purchased Sierra Logic. Both were T10 members so the Sierra Logic membership was dropped. Bill Martin is the now the Principal member for Emulex and Bob Nixon is the Alternate.

John Lohmeyer called for requests to join the committee. The following organizations joined at this meeting:

Kawasaki Microelectronics Am

The T10 membership during the meeting was 46 organizations, up 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:

T10 Letter Ballot Jeopardy Report -- 2006/11/03

<table>
<thead>
<tr>
<th>Ballot:</th>
<th>06-080r0</th>
<th>06-184r0</th>
<th>06-446r0</th>
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<tr>
<td>Report:</td>
<td>06-081r0</td>
<td>06-185r0</td>
<td>06-447r0</td>
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<tr>
<td>Acronym:</td>
<td>SAT</td>
<td>MMC-5</td>
<td>ADC-2</td>
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<tr>
<td>Organization</td>
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<tr>
<td>Iomega Corp.</td>
<td>Yes</td>
<td>Yes</td>
<td>DNV</td>
</tr>
<tr>
<td>Nvidia Corp.</td>
<td>No</td>
<td>Yes</td>
<td>DNV</td>
</tr>
<tr>
<td>Vitesse Semiconductor</td>
<td>Abs</td>
<td>Abs</td>
<td>DNV</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

4. Approval of Minutes - September 2006 - Nashua, NH (T10/06-417r0)

John Lohmeyer moved and Ralph Weber seconded that the minutes be approved as written. 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 November 16, 2006. 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 Portable Document Format (PDF) and/or native-format electronic originals with proper identification must be submitted.

People can obtain T10 document numbers for new and revised T10 documents 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 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.

On behalf of Bob Sheffield who could not attend, John Lohmeyer 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

643 Gary Robinson will contact the SBP-3 editor regarding the ISO status of SBP-3 and prepare a motion for T10 action in September. Overcome by events.

644 John Lohmeyer will forward SAT r09 to INCITS for further processing towards first public review. Complete.

645 Paul Entzel will prepare ADC-2 r07. Complete.

646 John Lohmeyer will conduct a letter ballot on forwarding ADC-2 r07 to first public review. Complete.

647 John Lohmeyer will notify INCITS that T10 recommends the withdrawal of SMD-E, SPC, SPI-4, and SSM and the reaffirmation of SSA-S3P, SSA-PH2, SSA-TL2, SDV, and SRP. Complete.

648 John Lohmeyer will conduct a five-year maintenance review of MMC and MMC-3 during the November T10 meeting week. To be completed under agenda item 9.1.


650 Gary Robinson will recommend that the JTC1/SC25 TAG vote to approve ISO/IEC FCD 14776-121, Project 1.25.13.11.38, Information technology, SCSI Passive Interconnect Performance. 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 on the activities of the recent INCITS meeting. There will be changes in the membership rules and fees starting in 2008. Stabilized standards policies have been approved by ANSI. Improvements in the Patent Policy are also in the works.

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 are 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;
8.2 Bridge Controller Commands (BCC) Project 1528-D [Elliott]

Rob Elliott reported that there has been no activity on BCC.

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

Rob Elliott reported that no proposals have been approved for SES-2 and no new working draft revision needs to be prepared.

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

In the absence of Dave Peterson, no report was made. Kevin Marks noted that the working group minutes can be found in 06-494.

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

Bill McFerrin reported that the ANSI Editor had requested corrections in MMC-5 and the working group (minutes in 06-507) had agreed to make several substantive changes too.

Bill McFerrin moved that MMC-5 r04 which contains substantive changes from the first Public Review version of MMC-5 be forwarded to INCITS for further processing towards second Public Review. Mark Overby seconded the motion.

The motion passed on a roll-call vote of 36:0:0:10=46 (meeting the two-thirds rule). The details of the roll-call vote were as follows:

<table>
<thead>
<tr>
<th>Organization</th>
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<td>Paul von Stamwitz</td>
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<td>Amphenol Interconnect</td>
<td>Michael Wingard</td>
<td>Yes</td>
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<td>Brocade</td>
<td>Robert Snively</td>
<td>Yes</td>
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<td>Dallas Semiconductor</td>
<td>Steve Robalino</td>
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<td>Dell, Inc.</td>
<td>Kevin Marks</td>
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<td>EMC Corp.</td>
<td>Mickey Felton</td>
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<td>Emulex</td>
<td>William Martin</td>
<td>Yes</td>
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<td>Ralph O. Weber</td>
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<td>FCI</td>
<td>Douglas Wagner</td>
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<td>Fujitsu</td>
<td>Mike Fitzpatrick</td>
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<td>Hewlett Packard Co.</td>
<td>Rob Elliott</td>
<td>Yes</td>
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<td>Dennis Moore</td>
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</table>
Lexar Media, Inc.            John Geldman                  Yes
LSI Logic Corp.              John Lohmeyer                 Yes
M-Systems                    Avraham Shimor                Yes
Marvell Semiconductor, Inc.  Paul Wassenberg               Yes
McDATA                                                     (not present)
Microsoft Corp.              David Walp                    Yes
Molex Inc.                   Jay Neer                      Yes
Network Appliance            Frederick Knight              Yes
Nvidia Corp.                 Mark Overby                   Yes
Oracle                                                     (not present)
Panasonic Technologies, Inc  Takaharu Ai                   Yes
Philips Electronics          William P. McFerrin           Yes
Pivot3, Inc.                 Thomas Grieff                 Yes
PMC-Sierra                                                 (not present)
Quantum Corp.                Paul Entzel                   Yes
Seagate Technology           Gerald Houlder                Yes
STMicroelectronics, Inc.     Stephen Finch                 Yes
Sun Microsystems, Inc.       (not present)
Symantec                     Roger Cummings                Yes
Texas Instruments            (not present)
TycoElectronics              Ashlie Fan                    Yes
Vitesse Semiconductor        Jim Scott                     Yes
Western Digital              Curtis Stevens                Yes
Xiotech Corp.                (not present)
Xyratex                      Rich Ramos                   Yes

This two-thirds roll call vote passed (36:0:0:10=46).

John Lohmeyer took an action item to forward MMC-5 r04 to INCITS for processing towards second Public Review noting that it contains substantive changes.

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

George Penokie reported that two small proposals had been accepted for SAM-4 and a new revision will be uploaded before the January meeting but not in time for the mailing.

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

John Lohmeyer reported that the SAT first Public Review ends 20 November 2006.

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

Ralph Weber reported that the next OSD-2 revision will not be prepared until after the January meeting.

8.9 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 06-498) and provided an electronic report in 06-505.

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

Ralph Weber reported that SPC-4 r08 will be posted prior to the January meeting by not in time for the mailing. SPC-4 r08 will incorporate all approved proposals.
8.11 Serial Attached SCSI Driver Interface (SDI) Project 1740-D [Elliott]
Rob Elliott noted that there has been no activity on this project.

8.12 Automation/Drive Interface - Commands - 2 (ADC-2) Project 1741-D [Suhler]
Paul Suhler reported on the activities of the ADI working group (minutes in 06-490) and provided an electronic report in 06-500.

Paul Suhler reported on the activities of the ADI working group (minutes in 06-490) and provided an electronic report in 06-500.

8.14 Serial Attached SCSI - 2 (SAS-2) Project 1760-D [Elliott]
Rob Elliott reported that several SAS-2 protocol proposals have been recommended (minutes in 06-485). The SAS-2 physical working group (minutes in 06-501) approved two recommendations.

A SAS-2 revision 07 will be posted containing all approved proposals in time for the mailing.

Rob asked that the target date for Letter Ballot on SAS-2 be changed to May or July of 2007.

8.15 SCSI Block Commands - 3 (SBC-3) Project 1799-D [Penokie]
George Penokie reported that a one trivial proposal has been approved for SBC-3 but he had no intentions of posting a new revision to include it. The committee raised no objections to delaying creation of the next SBC-3 revision.

8.16 SCSI / ATA Translation - 2 (SAT-2) Project 1826-D [Overby]
Mark Overby reported that work has begun on SAT-2 (minutes in 06-486).

8.17 Fibre Channel Protocol - 4 (FCP-4) Project 1828-D [Peterson]
In the absence of David Peterson, Ralph Weber reported that the FCP-4 working group minutes are available in 06-506 and an electronic report can be found in 06-509r0.

8.18 MultiMedia Command Set - 6 (MMC-6) Project 1836-D [McFerrin]
Bill McFerrin reported that MMC-6 r00 will be posted in time for the mailing. The MMC WG minutes are in 06-507. Bill noted that he will not be editing MMC-6 after r00 and no one has volunteered to replace him.

9. Old Business

9.1 Five-Year Maintenance Review of INCITS/T10 Standards (06-403) [Purnell]
Bill McFerrin reported that the MMC WG (minutes in 06-507) recommended that MMC be withdrawn and MMC-3 be reaffirmed.

Bill McFerrin moved that INCITS be informed that T10 recommends withdrawing MMC and reaffirming MMC-3. Dave Walp seconded the motion.
Mark Overby and Curtis Stevens questioned the loss of ATAPI-related material if MMC is withdrawn. Bill reported that MMC had less description of ATAPI usage than any other MMC-x standard.

The motion passed on a roll-call vote of 36:0:10=46 (meeting the two-thirds rule). The details of the roll-call vote were as follows:

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<td>John Geldman</td>
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<td>LSI Logic Corp.</td>
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<td>M-Systems</td>
<td>Avraham Shimor</td>
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</table>
This two-thirds roll call vote passed (36:0:0:10=46).

John Lohmeyer took an action item to inform INCITS that T10 recommends withdrawing MMC and reaffirming MMC-3.

9.2 Potential Liaison with MIPI Alliance (06-380 and 06-379) [Rich/Shimor]

In September, Avraham Shimor provided a letter requesting establishment of a liaison between T10 and MIPI Alliance regarding references to OSD by MIPI standards which are under development (06-380r0).

Avraham Shimor moved that T10 establish a liaison with MIPI. Bob Snively seconded the motion. In the absence of objections, the motion passed unanimously.

John Lohmeyer took an action item to establish a liaison report agenda item for MIPI with Avraham Shimor as the liaison.

10. New Business

10.1 Actions on SAS Protocol Working Group Recommendations

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

- 05-381r7 (Multiplexing) [Elliott]
- 06-473r0 (REPORT EXPANDER ROUTE TABLE descriptor layout change) [Elliott]
- 06-474r1 (Broadcast (Zone Activate) only by ZONED BROADCAST) [Elliott]

Rob Elliott moved that 05-381r7, 06-473r0, and 06-474r1 be approved for inclusion in SAS-2. Kevin Marks seconded the motion. The motion passed on a vote of 26:0:8:12=46.

10.2 Actions on SAS PHY Working Group Recommendations

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

- 06-464r0 (COMWAKE detection requirements) [Cox]
- 06-463r3 (OOB transmission requirements) [Cox]

Alvin Cox moved that 06-464r0 and 06-463r3 be approved for inclusion in SAS-2. Steve Finch seconded the motion. The motion passed on a vote of 26:0:7:13=46.

10.3 Actions on SAT Working Group Recommendations

No recommendations were made by the SAT-2 working group.

10.4 Actions on CAP Working Group Recommendations

George Penokie and Ralph Weber reviewed the following proposals recommended for inclusion in SPC-4:
06-388r3 (Security Goals and Threat Model) [Black]
06-465r1 (Alternative Proposal for Management Transport) [Cummings]
05-284r4 (Self Describing Command Timeouts) [Butt]
05-232r2 (Log Command Corrections) [Penokie]
06-454r0 (Clarifying Identifying Information Types Requirements) [Weber]
06-455r1 (Lost SET IDENTIFYING INFORMATION Parameter List Length requirement) [Weber]
06-484r1 (Encryption MAM Attribute) [Banther]

Ralph Weber moved that 06-388r3, 06-465r1, 05-284r4, 05-232r2, 06-454r0, 06-455r1, and 06-484r1 be approved for inclusion in SPC-4. Bill Martin seconded the motion. The motion passed on a vote of 26:0:2:18=46.

George Penokie reviewed the following proposals recommended for inclusion in SAM-4 and SPC-4:

06-411r2 (Clear REPORTED LUNS DATA HAS CHANGED on any command) [Elliott]
06-282r4 (SPC-4 WRITE BUFFER clarifications) [Elliott]

Rob Elliott moved that 06-411r2 be approved for inclusion in SAM-4 and SPC-4. Kevin Marks seconded the motion. The motion passed on a vote of 10:4:17:15=46.

Rob Elliott moved that 06-282r4 be approved for inclusion in SAM-4 and SPC-4. Kevin Marks seconded the motion. The motion passed on a vote of 14:0:17:15=46.

George Penokie reviewed 06-479r1 (Mandate CAPACITY DATA HAS CHANGED unit attention) [Elliott] a proposal recommended for inclusion in SBC-3.

Rob Elliott moved that 06-479r1 be approved for inclusion in SBC-3. Kevin Marks seconded the motion. The motion passed on a vote of 13:4:15:14=46.

Ralph Weber reviewed the following proposals recommended for inclusion in OSD-2:

06-257r0 (Remove PREVENT ALLOW MEDIUM REMOVAL from OSD-2) [Weber]
05-311r0 (REMOVE PARTITION Security Controlled by Root Attributes) [Weber]
05-314r1 (No Capability can have a Vendor Specific integrity check value algorithm) [Weber]
05-316r1 (Multi-Object LIST and LIST COLLECTION command enhancements) [Weber]
05-328r1 (Four New Multi-Object Commands) [Weber]

Ralph Weber moved that 06-257r0, 05-311r0, 05-314r1, 05-316r1, and 05-328r1 be approved for inclusion in OSD-2. Kevin Marks seconded the motion. The motion passed on a vote of 17:0:13:16=46.

10.5 Actions on Other Working Group Recommendations

No recommendations were made by other working groups.
12. Liaison Reports

12.1 T11 Liaison Report [Snively]
Bob Snively presented an electronic liaison report (06-458).

12.2 T13 Liaison Report [Colegrove]
Dan Colegrove provided an oral report to the committee on the activities of T13. For details regarding T13 activities see www.t13.org. Issues of compatibility with SAT-2 are being discussed with the T10 SAT working group. Changes are planned for the T13 web site and reflector services.

12.3 SFF Industry Group [Allan]
In the absence of Dal Allan, no SFF Industry Group liaison report was available.

12.4 SCSI Trade Association (STA) [Czekalski]
Marty Czekalski presented an electronic report (06-508) on the activities of the SCSI Trade Association.

12.5 IETF SCSI over IP [Black]
In the absence of David Black, no report was available.

12.6 SNIA [open]
Gary Robinson reported that the SMI-S is in FDIS ballot in ISO.

12.7 Trusted Computing Group [Cummings/Fitzpatrick]
Mike Fitzpatrick provided reported on upcoming TGC meetings and actives.

12.8 IEEE P1667 [Shimor]
Avraham Shimor reported that the approval ballot for IEEE P1667 passed and the draft standard is awaiting further processing in the IEEE.

13. Review of Action Items

648 John Lohmeyer will conduct a five-year maintenance review of MMC and MMC-3 during the November T10 meeting week. Complete.
651 Bob Nixon will coordinate bi-directional read/write issues between FCP and OSD-2.
652 John Lohmeyer will forward MMC-5 r04 to INCITS for processing towards second Public Review noting that it contains substantive changes.
653 John Lohmeyer will establish a liaison report agenda item for MIPI with Avraham Shimor as the liaison.
654 John Lohmeyer will inform INCITS that T10 recommends withdrawing MMC and reaffirming MMC-3.

14. Meeting Schedule

The next plenary meeting of T10 will be Thursday January 18, 2007 in Orlando, FL at the Orlando Marriott Lake Mary Hotel (1-407-995-1100) hosted by Symantec. The meeting will begin at 9:00 a.m. on Thursday.
The meeting list for the next plenary week is:

**January 2007 Meeting Map**

**Monday 1/15**

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**Tuesday 1/16**

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/ 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:

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<th>Meeting</th>
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<tr>
<td>SAS Protocol</td>
<td>TBA</td>
<td>TBA via T10 reflector / Elliott</td>
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<td>Call(s)</td>
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<tr>
<td>SAS PHY Calls</td>
<td>Weekly Thu 10a CST</td>
<td>TBA via T10 reflector / Cox</td>
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<tr>
<td>SMC-3 Call</td>
<td>Nov 27 8-10a PST</td>
<td>TBA via T10 reflector / Banther</td>
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<tr>
<td>SMC-3 Call</td>
<td>Dec 11 TBD time</td>
<td>TBA via T10 reflector / Peterson</td>
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<tr>
<td>SAT-2 WG</td>
<td>Mon Feb 19</td>
<td>Irvine, CA (with T13) / Stevens</td>
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Map Abbreviation Key:
- ad hoc: a.k.a., working group
- ADI: Automation Drive Interface (tape library interface)
- Amnd: Amendment
- CAP: Commands, Architecture, and Protocols
- 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
- Lock SG: Study Group to examine need for Locking removable storage devices
- MMC: Multimedia Commands (CD-ROM, DVD, etc.)
- OSD: Object-based Storage Device
- PH or PHY: Physical (Connectors, Cables, Transceivers, etc.)
- Prot: Protocol
- Plenary: Full Committee Meeting
- Res: Resolution
- SAS: Serial Attached SCSI
- SAT: SCSI / ATA Translation
- SBC-2: SCSI Block Commands - 2
- SCSI: 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-3: SCSI Medium Changer - 3 Commands
- SPC-4: SCSI Primary Commands - 4 (4th generation)
- SSC-3: SCSI Stream Commands - 2 (includes Tape)
- STA: SCSI Trade Association (Closed meeting -- not an INCITS activity)
- STA Marcom: STA Marketing Communications (Closed meeting -- not an INCITS activity)
- 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)

John Lohmeyer moved that the changes to host and locations in 2007 and 2008 be approved. Curtis Stevens seconded the motion. In the absence of any objections, the motion passed unanimously.
For more information about T10 activities, please contact the following people:

<table>
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<tr>
<th>Activity</th>
<th>Contact</th>
<th>Telephone/Email</th>
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<tbody>
<tr>
<td>ADT, ADC, ADT-2, ADC-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>
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<tr>
<td>SBC-2,SSES-2,SAS-1.1,SAS-2,</td>
<td>Rob Elliott</td>
<td>(281) 518-5037 <a href="mailto:Elliott@hp.com">Elliott@hp.com</a></td>
</tr>
<tr>
<td>BCC,SDI</td>
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<tr>
<td>MMC-4, MMC-5, MMC-6</td>
<td>Bill McFerrin</td>
<td>(325) 423-1560 <a href="mailto:billmc@tstar.net">billmc@tstar.net</a></td>
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<tr>
<td>SBC-3, SES-2, SES-3, SAS-1.1, SAS-2, BCC, SDI, MMC-4, MMC-5, MMC-6</td>
<td>Peter Johansson</td>
<td>(510) 527-3926 <a href="mailto:PJohansson@ACM.org">PJohansson@ACM.org</a></td>
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<tr>
<td>SAM-4, SBC-3</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>SAT-2</td>
<td>Mark Overby</td>
<td>(425) 417-9412 <a href="mailto:moverby@nvidia.com">moverby@nvidia.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>
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<tr>
<td>SMC-3</td>
<td>Noud Snelder</td>
<td>+31408446108 <a href="mailto:Noud.snelder@bdt.de">Noud.snelder@bdt.de</a></td>
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<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, FCP-4</td>
<td>Dave Peterson</td>
<td>(763) 268-6139 <a href="mailto:david.peterson@mcdata.com">david.peterson@mcdata.com</a></td>
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<tr>
<td>Other Activities</td>
<td>John Lohmeyer</td>
<td>(719) 533-7560 <a href="mailto:lohmeyer@t10.org">lohmeyer@t10.org</a></td>
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The long-term T10 meeting week schedule is:

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<th>Date</th>
<th>Location</th>
<th>Host/Comments</th>
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</thead>
<tbody>
<tr>
<td>Approved dates and locations (except March and November) for 2007:</td>
<td></td>
<td></td>
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<tr>
<td>Jan 15-19, 2007</td>
<td>Orlando, FL</td>
<td>Symantec</td>
</tr>
<tr>
<td>Mar 12-16, 2007</td>
<td>Memphis, TN</td>
<td>SCSI Trade Association</td>
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<tr>
<td>May 7-11, 2007</td>
<td>Seattle, WA</td>
<td>Microsoft Corp.</td>
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<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>Vancouver, BC Canada</td>
<td>PMC-Sierra</td>
</tr>
<tr>
<td>Nov 5-9, 2007</td>
<td>Las Vegas, NV</td>
<td>Hitachi GST</td>
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Proposed dates for 2008:

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<tr>
<th>Date</th>
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<tr>
<td>Jan 14-18, 2008</td>
<td>San Francisco, CA</td>
<td>Nvidia</td>
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<tr>
<td>Mar 10-14, 2008</td>
<td>San Francisco, CA</td>
<td>Nvidia</td>
</tr>
<tr>
<td>May 5-9, 2008</td>
<td>San Francisco, CA</td>
<td>Nvidia</td>
</tr>
<tr>
<td>Jul 14-18, 2008</td>
<td>Colorado Springs, CO</td>
<td>LSI Logic</td>
</tr>
<tr>
<td>Sep 8-12, 2008</td>
<td>Colorado Springs, CO</td>
<td>LSI Logic</td>
</tr>
<tr>
<td>Nov 3-7, 2008</td>
<td>San Francisco, CA</td>
<td>Nvidia</td>
</tr>
</tbody>
</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. Working groups should strive to achieve consensus prior to bringing issues to T10.

Bill Martin moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved through the end of December 2006. Gerry Houlder 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 10:58 a.m. on Thursday November 9, 2006.
Enclosure(1) -- Meeting Attendees

<table>
<thead>
<tr>
<th>Name</th>
<th>S</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Chris Fore</td>
<td>P</td>
<td>Adaptec, Inc.</td>
</tr>
<tr>
<td>Mr. Paul von Stamwitz</td>
<td>P</td>
<td>AMCC</td>
</tr>
<tr>
<td>Mr. Michael Wingard</td>
<td>P</td>
<td>Amphenol Interconnect</td>
</tr>
<tr>
<td>Mr. Robert Snively</td>
<td>P</td>
<td>Brocade Comm. Systems, Inc.</td>
</tr>
<tr>
<td>Mr. Steve Robalino</td>
<td>A</td>
<td>Dallas Semiconductor</td>
</tr>
<tr>
<td>Mr. Gideon Avida</td>
<td>P</td>
<td>Decru</td>
</tr>
<tr>
<td>Mr. Kevin Marks</td>
<td>P</td>
<td>Dell, Inc.</td>
</tr>
<tr>
<td>Mr. Mickey Felton</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. William Martin</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. Michael Banther</td>
<td>A</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. 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 Corp.</td>
</tr>
<tr>
<td>Dr. Mark Seidel</td>
<td>A</td>
<td>Intel Corp.</td>
</tr>
<tr>
<td>Mr. Joel Silverman</td>
<td>P</td>
<td>Kawasaki Microelectronics Am</td>
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<tr>
<td>Mr. Dennis Moore</td>
<td>P</td>
<td>KnowledgeTek, Inc.</td>
</tr>
<tr>
<td>Mr. John Geldman</td>
<td>P</td>
<td>Lexar Media, Inc.</td>
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<tr>
<td>Mr. John Lohmeyer</td>
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<td>LSI Logic Corp.</td>
</tr>
<tr>
<td>Mr. Graeme Weston-Lewis</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. Paul Wassenberg</td>
<td>A</td>
<td>Marvell Semiconductor, Inc.</td>
</tr>
<tr>
<td>Mr. David Walp</td>
<td>A#</td>
<td>Microsoft Corp</td>
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<tr>
<td>Mr. Greg Rice</td>
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<td>Mindspeed Technologies</td>
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<tr>
<td>Mr. Jay Neer</td>
<td>P</td>
<td>Molex Inc.</td>
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<tr>
<td>Mr. Frederick Knight</td>
<td>A</td>
<td>Network Appliance</td>
</tr>
<tr>
<td>Mr. Mark Overby</td>
<td>P</td>
<td>Nvidia Corp.</td>
</tr>
<tr>
<td>Mr. Takaharu Ai</td>
<td>A</td>
<td>Panasonic AVC Networks Co.</td>
</tr>
<tr>
<td>Mr. William P. McFerrin</td>
<td>P</td>
<td>Philips Electronics/CD Edge</td>
</tr>
<tr>
<td>Mr. Thomas Grieff</td>
<td>A</td>
<td>Pivot3, Inc.</td>
</tr>
<tr>
<td>Mr. Paul Entzel</td>
<td>P</td>
<td>Quantum Corp.</td>
</tr>
<tr>
<td>Mr. Michael Rogers</td>
<td>AV</td>
<td>Samsung</td>
</tr>
<tr>
<td>Mr. Alvin Cox</td>
<td>A</td>
<td>Seagate Technology</td>
</tr>
<tr>
<td>Mr. Gerald Houlder</td>
<td>P</td>
<td>Seagate Technology</td>
</tr>
<tr>
<td>Mr. Stephen Finch</td>
<td>P</td>
<td>STMicroelectronics, Inc.</td>
</tr>
<tr>
<td>Mr. Scott Painter</td>
<td>A#</td>
<td>Sun Microsystems, Inc.</td>
</tr>
<tr>
<td>Mr. Roger Cummings</td>
<td>P</td>
<td>Symantec</td>
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<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. Jim Scott</td>
<td>P</td>
<td>Vitesse Semiconductor</td>
</tr>
<tr>
<td>Mr. Curtis Stevens</td>
<td>P</td>
<td>Western Digital</td>
</tr>
<tr>
<td>Mr. Rich Ramos</td>
<td>P</td>
<td>Xyratex</td>
</tr>
</tbody>
</table>

46 People Present

Status Key:  P   -  Principal       L   -  Liaison
A,A# - Alternate  V - Visitor
AV - Advisory Member
Enclosure(2) -- T10 Attendance Database
Generated on 2006/11/16 at 09:41:59

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