

Accredited Standards Committee*
InterNational Committee for Information Technology Standards (INCITS)

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Reply to: John Lohmeyer

To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: Minutes of T10 Plenary Meeting #82 -- November 8, 2007
Las Vegas, NV

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Results of Meeting

1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 1:30 p.m., Thursday November 8, 2007. He thanked Dan Colegrove of Hitachi Global Storage Technology 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 (see enclosure (1)) 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 (\$1200 per year beginning in 2008).

John briefly discussed the mailing fees. Complete pricing information is contained in the 2007 membership form (available at http://www.t10.org/ftp/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.

Since the last meeting the storage products part of Vitesse Semiconductor was acquired by Maxim Integrated Products. No Vitesse Semiconductor representatives remain on T10, so this organization was terminated.

John noted that he had received an email requesting that the Panasonic membership not be continued into 2008. He will drop the Panasonic membership at the end of this year.

The Chair said that no organizations were in attendance jeopardy.

John called for requests to join the committee. No organizations joined at this meeting.

The T10 membership during the meeting was 41 organizations, unchanged from the 41 member organizations extant at the time the meeting was convened. Enclosure (1) is the list of the people present at the meeting and enclosure (3) 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. Accelerated and personnel letter ballots are not included in letter ballot jeopardy calculations. The current letter ballot jeopardy status is as shown:

T10 Letter Ballot Jeopardy Report -- 2007/11/01

Organization	Ballot: Report: Acronym:	06-446r0 06-447r0 ADC-2	07-352r0 07-353r0 RBC NWIP	07-434r0 07-435r0 SAM-4
Adaptec, Inc.		Yes	Yes	DNV
Iomega Corp.		DNV	Yes	Yes
Nvidia Corp.		DNV	Yes	Yes
Vitesse Semiconductor		DNV	Yes	Yes

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 2007 - Vancouver, BC Canada (T10/07-396r0)

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 Barbara Bennett (bbennett@itic.org) (202) 626-5743. 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. Mountain time on Thursday November 15, 2007. 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.

In the absence of Mark Seidel, John Lohmeyer reminded the committee that a statement of the Intel patent policy can be found in T10/01-041r0.

John noted that he had received a licensing statement from LSI Corp., which he had posted as T10/07-460r0.

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

- 670 John Lohmeyer will tell the INCITS Secretariat that T10 has judged the ADC-2 pre-edit changes summarized in 07-404r1 to be non-substantive by a vote of 28:0:0:14=42. *Complete.*
- 671 George Penokie will generate SAM-4 r13. *Complete.*
- 672 John Lohmeyer will conduct a letter ballot on SAM-4 r13 as soon as it is posted. *Complete.*
- 673 John Lohmeyer will communicate the 2008 standards maintenance recommendations to INCITS. *Complete.*
- 674 Gary Robinson will notify the JTC1 TAG that T10 recommends a vote to Approve FDIS ballot 25 N 1260 Subject: ISO/IEC 24739-1: Information technology - AT Attachment with Packet Interface -- 7 - Part 1 - Register Delivered Command Set, Logical Register Set, (ATA/ATAPI-7 V1) project 1.25.13.18-1. *Complete.*
- 675 Gary Robinson will notify the JTC1 TAG that T10 recommends a vote to Approve FCD ballot ISO/IEC 24739-2: Information technology - AT Attachment with Packet Interface -- 7 - Part 2 - Parallel Transport Protocols and Physical Interconnect project 1.25.13.18-2. *Complete.*
- 676 Gary Robinson will notify the JTC1 TAG that T10 recommends that the JTC1 TAG vote to Approve FDIS ballot Subject: ISO/IEC RL 24740: Information technology - Responsive Link, project 1.25.13.10.14. *Complete.*
- 677 Gary Robinson will notify the JTC1 TAG that T10 recommends that the JTC1/SC25 TAG vote to Approve FCD ballot on Subject: ISO/IEC 14776-223: Information technology - Fibre Channel Protocol-3, FCP-3, project 1.25.13.11.47. *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.

8.1.1 INCITS Antitrust Guidelines

All T10 members should be aware of the INCITS antitrust guidelines available at <http://www.incits.org/inatrust.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;
- 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 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 SES-2 r19 will be prepared, including all proposals approved this week, and probably will be available in time for the mailing. Rob requested that the chair conduct a letter ballot on forwarding SES-2 to first Public Review.

Rob Elliott took an action item to prepare SES-2 r19. John Lohmeyer took an action item to conduct a Letter Ballot on forwarding SES-2 r19 to first Public Review.

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

Dave Peterson reported on the activities of the SSC-3 working group (minutes in 07-495). He supplemented his presentation with an electronic report in 07-506r0. Dave requested that the target date for forwarding this project to INCITS be delayed until July 2008.

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

John Lohmeyer reported that MMC-5 (INCITS 430-2007) was approved by ANSI BSR on 9 Aug 2007 and it was published 12 Oct 2007. He congratulated Bill McFerrin, MMC-5 Project Editor.

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

John Lohmeyer reported that the forwarding letter ballot for SAM-4 r13 passed 39:2:0:1=42. Comments were received from 6 organizations. An ad hoc meeting follows the T10 meeting to continue resolving letter ballot comments.

George Penokie reported that SAM-4 r13a will be posted in time for the mailing incorporating those comments that have been approved to date.

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

John Lohmeyer reported that SAT (INCITS 431-2007) was approved by ANSI BSR on 9 Aug 2007 and it was published 26 Sep 2007. He congratulated Bob Sheffield, SAT Project Editor. John reported that previously announced plans for a SAT amendment have been withdrawn.

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

Ralph Weber reported that OSD-2 r03 incorporating all proposals approved by this and previous meetings will be posted late in December or early January.

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 07-489) and provided an electronic report in 07-501r0. Michael noted that Curtis Ballard will become chair after the January meeting. Michael requested that the target date for forwarding this project to INCITS be delayed until November 2008.

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

Ralph Weber apologized for not preparing an SPC-4 revision since the July meeting and stated that SPC-4 r12 incorporating all approved proposals from the July, September, and November meeting weeks will be posted before the end of the year, but not in time for the mailing.

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

Rob Elliott moved that the SDI project (T10/1740-D) be withdrawn. Mark Overby seconded the motion. The motion passed on a two-thirds vote of 27:0:2:12=41.

John Lohmeyer took an action item to notify INCITS that T10 requests that project T10/1740-D (SDI) be withdrawn.

8.12 Automation/Drive Interface - Commands - 2 (ADC-2) Project 1741-D [Suhler]

John Lohmeyer reported that ADC-2 is in INCITS management review and INCITS letter ballot. It should be approved by INCITS before the January meeting.

8.13 Automation/Drive Interface - Transport Protocol - 2 (ADT-2) Project 1742-D [Suhler]

Paul Suhler reported on the activities of the ADI working group (minutes in 07-477) and provided an electronic report in 07-490. Paul requested that the target date for forwarding the ADT-2 project to INCITS be delayed until September 2008.

Paul noted that the group has yet to decide on which standard will become the home for the ADT Over TCP/IP effort: ADT-2 or ADT-3. He emphatically noted that this decision would delay the above-stated Public Review date should it go into ADT-2.

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

Rob Elliott reported that several proposals have been recommended by the SAS protocol working group (minutes in 07-473). See agenda item 10.1. The SAS-2 physical working group (minutes in 07-502) recommend one SAS-2 proposal. See agenda item 10.2.

SAS-2 revision 13 will be posted containing all approved proposals, probably in time for the mailing.

8.15 SCSI Block Commands - 3 (SBC-3) Project 1799-D [Penokie]

George Penokie reported that SBC-3 r12 will be prepared to incorporate the proposals approved this week. The new revision may be available in time for the mailing.

8.16 SCSI / ATA Translation - 2 (SAT-2) Project 1826-D [Overby]

Mark Overby reported that a SAT-2 working group meeting was held November 6 (minutes in 07-474). A SAT-2 working group meeting is planned for December 10 in Redmond, WA, and SAT-2 plans to meet with T10 in Janu-

ary. Mark has requested that the cutoff date for new technical proposals be slipped to January 2008, and that the group plans to go to T10 letter ballot following the July 2008 meeting.

8.17 Fibre Channel Protocol - 4 (FCP-4) Project 1828-D [Peterson]

Dave Peterson discussed the activities of the FCP-4 working group (minutes in 07-496), and provided an electronic report provided in 07-505r0. Dave requested that the target date for forwarding this project to INCITS be delayed until September 2008.

8.18 MultiMedia Command Set - 6 (MMC-6) Project 1836-D [McFerrin]

In the absence of Bill McFerrin, Ralph Weber reported minutes for the MMC-6 working group can be found in 07-504. Earlier in the week, Bill had requested that the target date for forwarding this project to INCITS be delayed until November 2008.

8.19 Automation/Drive Interface - Commands - 3 (ADC-3) Project 1895-D [Suhler]

Paul Suhler reported on the activities of the ADI working group (minutes in 07-477) and provided an electronic report in 07-490.

9. Old Business

9.1 Project Proposal: USB Queuing Transport (07-400) [Stevens]

John Lohmeyer said that this project proposal did not meet the automatic two-week rule in September, and was deferred until this meeting. The draft project proposal (07-400r1) was reviewed briefly.

Curtis Stevens moved that T10 approve the USB Attached SCSI (UAS) project proposal (07-400r1). Mark Overby seconded the motion. The motion passed on a two-thirds vote of 30:0:0:11=41.

John Lohmeyer took an action item to forward the UAS project proposal (07-400r1) to INCITS for further processing.

10. New Business

10.1 Actions on SAS Protocol Working Group Recommendations

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

- 07-090r3 (Transmit IDENTIFY three times) [Elliott]
- 07-392r2 (Remove AWT reset on receipt of OPEN_REJECT (RETRY)) [Penokie]
- 07-482r1 (PHY CHANGE COUNT increment due to zoning changes) [Besmer]
- 07-424r1 (Initiator Side Transport layer write flowcharts) [Penokie]
- 07-103r3 (Changes to Report Phy Broadcast Counts logging and retrieval method) [Hartshorn]
- 07-480r0 (More phy test patterns - TRAIN, TRAIN_DONE, and idle dwords) [Elliott]

Rob Elliott moved that 07-090r3, 07-392r2, 07-482r1, 07-424r1, 07-103r3, and 07-480r0 be approved for inclusion in SAS-2. Gerry Houlder seconded the motion. The motion passed on a vote of 27:0:1:13=41.

10.2 Actions on SAS PHY Working Group Recommendations

George Penokie reviewed 07-304r3 (Zero-Length Test Load Characterization) [Olawsky] a proposal recommended for inclusion in SAS-2.

Rob Elliott moved that 07-304r3 be approved for inclusion in SAS-2. Alvin Cox seconded the motion. The motion passed on a vote of 27:0:2:12=41.

10.3 Actions on SAT Working Group Recommendations

Mark Overby reviewed the following proposals recommended for inclusion in SAT-2:

- 07-200r3 (WRITE LONG to WRITE UNCORRECTABLE EXT) [Elliott and Wolford]
- 07-402r2 (Add translation for SATA NCQ Priority) [Besmer]

Rob Elliott moved that 07-200r3 and 07-402r2 be approved for inclusion in SAT-2. Mark Overby seconded the motion. The motion passed on a vote of 24:0:4:13=41.

10.4 Actions on CAP Working Group Recommendations

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

- 07-437r4 (Establishing a Security Association using IKEv2) [Black/Ball/Weber]
- 07-430r2 (UML model for CbCS) [Penokie]

Rob Elliott reviewed the following proposals recommended for inclusion in SES-2:

- 07-428r0 (Additional Element Status length field correction) [Elliott]
- 07-099r0 (Clarify no null termination of strings) [Elliott]
- 07-457r0 (Bypass reason code) [Elliott]

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

- 07-301r5 (Security Enhancements) [Weber]
- 07-378r2 (Exceptions Management enhancements) [Weber]

Ralph Weber moved that 07-437r4 and 07-430r2 be approved for inclusion in SPC-4; that 07-428r0, 07-099r0, and 07-457r0 be approved for inclusion in SES-2; and that 07-301r5 and 07-378r2 be approved for inclusion in OSD-2. Rob Elliott seconded the motion. The motion passed on a vote of 23:0:3:15=41.

George Penokie reviewed the following proposals recommended for inclusion in SBC-3:

- 07-472r0 (Reporting nominal form factor) [Elliott]
- 07-481r1 (Mention that DIF equals protection information) [Elliott]
- 07-447r1 (Read-Write Error Recovery clarifications) [Elliott]

Rob Elliott moved that 07-472r0 be approved for inclusion in SBC-3. Mark Overby seconded the motion. The motion passed on a vote of 6:1:20:14=41.

Rob Elliott moved that 07-481r1 be approved for inclusion in SBC-3. Bill Martin seconded the motion. The motion passed on a vote of 9:1:14:17=41.

Rob Elliott moved that 07-447r1 be approved for inclusion in SBC-3. Mark Evans seconded the motion. The motion passed on a vote of 15:0:7:19=41.

10.5 Actions on Other Working Group Recommendations

No recommendations were presented from other working groups.

11. ISO/IEC

11.1 ISO/IEC Report [Robinson]

Gary Robinson presented the ISO/IEC report (see enclosure (2)).

11.2 ISO/IEC Business [Robinson]**11.2.1 FDIS, 1.25.13.11.33 SPC-3 14776-453**

Gary Robinson moved that T10 has reviewed the FDIS, 1.25.13.11.33 SPC-3 14776-453, and recommends that the JTC1 TAG vote to approve said FDIS. Bill Martin seconded the motion.

The motion passed on a roll call vote of 32:0:0:9=41. The details of the roll call vote were as follows:

Organization	Voter	Vote
Adaptec, Inc.		(not present)
AMCC	Paul von Stamwitz	Yes
Amphenol Interconnect	Gregory McSorley	Yes
ATL Technology		(not present)
Brocade	David Peterson	Yes
Dell, Inc.	Kevin Marks	Yes
EMC Corp.	Gary S. Robinson	Yes
Emulex	William Martin	Yes
ENDL	Ralph O. Weber	Yes
FCI		(not present)
Finisar Corp.	David Freeman	Yes
Foxconn Electronics	Elwood Parsons	Yes
Fujitsu	Mike Fitzpatrick	Yes
General Dynamics		(not present)
Hewlett Packard Co.	Rob Elliott	Yes
Hitachi Global Storage Tech.	Dan Colegrove	Yes
IBM Corp.	George O. Penokie	Yes
Intel Corp.		(not present)
Iomega Corp.		(not present)
Kawasaki Microelectronics Am	Joel Silverman	Yes
KnowledgeTek, Inc.	Dennis Moore	Yes
Lexar Media, Inc.	John Geldman	Yes
LSI Corp.	John Lohmeyer	Yes
Marvell Semiconductor, Inc.	Paul Wassenberg	Yes
Maxim Integrated Products	Gregory Tabor	Yes
Microsoft Corp.	Robert Griswold	Yes
Molex Inc.	Jay Neer	Yes
NeoScale Systems Inc.		(not present)
Network Appliance	Subhash Sankuratripati	Yes
Nvidia Corp.	Mark Overby	Yes
Panasonic Technologies, Inc		(not present)
PMC-Sierra	Tim Symons	Yes
Quantum Corp.	Paul Suhler	Yes
Samsung	Michael Rogers	Yes
SanDisk Corporation	Avraham Shimor	Yes
Seagate Technology	Gerald Houlder	Yes
STMicroelectronics, Inc.		(not present)
Sun Microsystems, Inc.	Erich Oetting	Yes
Symantec	Raymond Gilson	Yes
TycoElectronics	Dan Gorenc	Yes
Western Digital	Mark Evans	Yes

This two-thirds international roll call vote passed (32:0:0:9=41).

John Lohmeyer took an action item to notify the INCITS secretariat that T10 has reviewed the FDIS, 1.25.13.11.33 SPC-3 14776-453, and recommends that the JTC1 TAG vote to approve said FDIS.

11.2.2 FCD ISO/IEC 24739-3, ATAPI-7 volume 3

Gary Robinson moved that T10 recommends that the SC25 TAG vote to approve 25N ____, FCD ISO/IEC 24739-3 Information technology Small Computer System Interface Part 3: AT Attachment with Packet Interface - 7 Volume 3 (ATAPI-7-3). Bill Martin seconded the motion.

The motion passed on a roll call vote of 32:0:0:9=41. The details of the roll call vote were the same as in agenda item 11.2.1.

John Lohmeyer took an action item to notify the INCITS secretariat that T10 recommends that the SC25 TAG vote to approve 25N ____, FCD ISO/IEC 24739-3 Information technology Small Computer System Interface Part 3: AT Attachment with Packet Interface - 7 Volume 3 (ATAPI-7-3).

11.2.3 ISO Systematic Review ISO/IEC 14776-115:2004 (SPI-5)

Gary Robinson moved that T10 recommends that the JTC1 TAG vote to confirm 14776-115: Information technology -- Small Computer System Interface (SCSI) -- Part 115:2004 Parallel Interface-5 (SPI-5). Bill Martin seconded the motion.

The motion passed on a roll call vote of 32:0:0:9=41. The details of the roll call vote were the same as in agenda item 11.2.1.

John Lohmeyer took an action item to notify the INCITS secretariat that T10 recommends that the JTC1 TAG vote to confirm 14776-115: Information technology -- Small Computer System Interface (SCSI) -- Part 115:2004 Parallel Interface-5 (SPI-5).

11.2.4 ISO Systematic Review ISO/IEC 18372:2004 RapidIO(TM)

Gary Robinson moved that T10 recommends that the JTC1 TAG vote to revise 18372:2004: Information technology -- RapidIO(TM) interconnect specification. Bill Martin seconded the motion.

The motion passed on a roll call vote of 32:0:0:9=41. The details of the roll call vote were the same as in agenda item 11.2.1.

John Lohmeyer took an action item to notify the INCITS secretariat that T10 recommends that the JTC1 TAG vote to revise 18372:2004: Information technology -- RapidIO(TM) interconnect specification.

11.2.5 ISO Systematic Review ISO/IEC 14776-150:2004 (SAS)

Gary Robinson moved that T10 recommends that the JTC1 TAG vote to confirm 14776-150: Information technology -- Small Computer System Interface (SCSI) -- Part 150: Serial Attached SCSI (SAS). Bill Martin seconded the motion.

The motion passed on a roll call vote of 32:0:0:9=41. The details of the roll call vote were the same as in agenda item 11.2.1.

John Lohmeyer took an action item to notify the INCITS secretariat that T10 recommends that the JTC1 TAG vote to confirm 14776-150: Information technology -- Small Computer System Interface (SCSI) -- Part 150: Serial Attached SCSI (SAS).

11.2.6 NWIP, Project 1.25.13.__.__, SAT 14776-921 (07-500) [Robinson]

Gary Robinson moved that T10 recommends that the SC25 TAG contribute a NWIP to SC25 for SAT, T10/07-500r0, as project 1.25.13.__.__, 14776-921, to mark YES on each of the 6 questions, define Gary S Robinson as

Project Editor in question 4, normal standard development track is proposed in question 7, and when the NWIP ballot is available; to vote Approve. Bill Martin seconded the motion.

The motion passed on a roll call vote of 32:0:0:9=41. The details of the roll call vote were the same as in agenda item 11.2.1.

John Lohmeyer took an action item to notify the INCITS secretariat that T10 recommends that the SC25 TAG contribute a NWIP to SC25 for SAT, T10/07-500r0, as project 1.25.13.____, 14776-921, to mark YES on each of the 6 questions, define Gary S Robinson as Project Editor in question 4, normal standard development track is proposed in question 7, and when the NWIP ballot is available; to vote Approve.

12. Liaison Reports

12.1 T11 Liaison Report [Snively]

Bob Snively presented the T11 electronic liaison report (07-458r0).

12.2 T13 Liaison Report [Colegrove]

Dan Colegrove provided an oral report to the committee on the activities of T13. He noted that the second Letter Ballot on ACS will begin in December. For details regarding T13 activities see www.t13.org.

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]

In the absence of Marty Czekalski, John Lohmeyer presented an electronic report (07-503r0) on the activities of the SCSI Trade Association. Jay Neer asked that the Monday "What's next in SAS?" meeting be placed on the January meeting map.

12.5 IETF SCSI over IP [Black]

David Black reported that the IPS working group has finished its program of work and have been closed by the IETF. If additional work is needed in this area, please direct them to the IESG.

David asked that this liaison topic be removed from future agendas.

12.6 SNIA [open]

No report was made.

12.7 Trusted Computing Group [Fitzpatrick]

In the absence of Mike Fitzpatrick, no report was made.

12.8 MIPI Alliance [Shimor]

In the absence of Avraham Shimor, no report was made.

12.9 IEEE P1619 [Ball]

Subhash Sankuratipati presented an electronic report (07-497r0) prepared by Matt Ball.

13. Review of Action Items

- 678 John Lohmeyer will notify the INCITS secretariat that T10 has reviewed the FDIS, 1.25.13.11.33 SPC-3 14776-453, and recommends that the JTC1 TAG vote to approve said FDIS.
- 679 John Lohmeyer will notify the INCITS secretariat that T10 recommends that the SC25 TAG vote to approve 25N ____, FCD ISO/IEC 24739-3 Information technology Small Computer System Interface Part 3: AT Attachment with Packet Interface - 7 Volume 3 (ATAPI-7-3).
- 680 John Lohmeyer will notify the INCITS secretariat that T10 recommends that the JTC1 TAG vote to confirm 14776-115: Information technology -- Small Computer System Interface (SCSI) -- Part 115:2004 Parallel Interface-5 (SPI-5).
- 681 John Lohmeyer will notify the INCITS secretariat that T10 recommends that the JTC1 TAG vote to revise 18372:2004: Information technology -- RapidIO(TM) interconnect specification.
- 682 John Lohmeyer will notify the INCITS secretariat that T10 recommends that the JTC1 TAG vote to confirm 14776-150: Information technology -- Small Computer System Interface (SCSI) -- Part 150: Serial Attached SCSI (SAS).
- 683 John Lohmeyer will notify the INCITS secretariat that T10 recommends that the SC25 TAG contribute a NWIP to SC25 for SAT, T10/07-500r0, as project 1.25.13.____, 14776-921, to mark YES on each of the 6 questions, define Gary S Robinson as Project Editor in question 4, normal standard development track is proposed in question 7, and when the NWIP ballot is available; to vote Approve.
- 684 John Lohmeyer will notify INCITS that T10 requests that project T10/1740-D (SDI) be withdrawn.
- 685 John Lohmeyer will forward the UAS project proposal (07-400r1) to INCITS for further processing.
- 686 Rob Elliott will prepare SES-2 r19.
- 687 John Lohmeyer will conduct a Letter Ballot on forwarding SES-2 r19 to first Public Review.

14. Meeting Schedule

The next plenary meeting of T10 will be Thursday January 17, 2007 in Santa Ana, CA at the Embassy Suites Hotel (Reservations: 714-241-3800) hosted by Western Digital Corp. The meeting will begin at 1:30 p.m. on Thursday.

The meeting list for the next plenary week is:

January 2008 Meeting Map
(2007/11/08 Version)

	9	10	11	12	1	2	3	4	5	6	7	8	
Monday 1/14	+-----+												
	ADI-2 WG / SMC-3 WG												(15)
	+-----+												
	SAS Protocol WG												(40)
	+-----+												
	IEEE P1619												(25)
	+-----+												
	STA Event: "What's next for SAS" --> STA Event												(All)
	+-----+												
Tuesday 1/15	+-----+												
	SAS Physical WG												(45)
	+-----+												
	SAT WG STA Marcom *												(20)
	+-----+												
	TCG KMSS * TCG SIIF *												(20)
	+-----+												
	FCP-4 / SSC-3 WG												(25)
	+-----+												
	Mt Fuji												(25)
	+-----+												
Wednesday 1/16	+-----+												
	CAP WG												(45)
	+-----+												
	SFF												(25)
	+-----+												
	MMC WG / Mt Fuji												(25)
	+-----+												
	STA Plenary * / TCC*												(20)
	+-----+												
Thursday 1/17	+-----+												
	CAP WG ///// T10 Plenary/ LB cmt												(45/50/10)
	+-----+												
Friday 1/18	+-----+												
	T11 FC-BB-5 WG												(60)
	+-----+												

/ 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.

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
 FCP-4: Fibre Channel Protocol - 4
 IEEE P1619: IEEE Security in Storage Working Group
 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
 PH or PHY: Physical (Connectors, Cables, Transceivers, etc.)
 Prot: Protocol
 Plenary: Full Committee Meeting
 Res: Resolution
 SAS: Serial Attached SCSI
 SAT-2: SCSI / ATA Translation - 2
 SBC-3: SCSI Block Commands - 3
 SCSI: Small Computer System 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)
 T10: SCSI Storage Interfaces Technical Committee
 T11: Fibre Channel Interfaces Technical Committee
 T13: ATA Storage Interface
 TCG: Trusted Computing Group
 TCG SIIF: Trusted Computing Group Storage Interface Interactions Forum
 WG: Working Group (same as Ad Hoc Group)

Meeting	Date(s)	Location / Host
SAS Protocol Calls	TBA	TBA via T10 Reflector / Elliott
SAS PHY Calls	Weekly Thu 10:00a CT	TBA via T10 Reflector / Cox
ADI Call	Wed Nov 14 8:00a-10:00a PST	TBA via T10 Reflector / HP
SAS PHY Call	Thu Nov 15 10:00a-12:00n CST	TBA via T10 Reflector / Cox
ADI Call	Wed Nov 28 8:00a-10:00a PST	TBA via T10 Reflector / HP
SSC-3 Call	Thu Nov 29 10:00a-12:00n CST	TBA via T10 Reflector / Peterson
SAT-2 WG	Mon Dec 10 10:30a-5:00p PST	Redmond, WA / Overby
ADI Call	Wed Dec 12 8:00a-10:00a PST	TBA via T10 Reflector / IBM
SAS PHY Call	Thu Dec 13 10:00a-12:00n CST	TBA via T10 Reflector / Cox
SAS PHY Call	Thu Dec 20 10:00a-12:00n CST	TBA via T10 Reflector / Cox
SAS PHY Call (tentative)	Thu Jan 3 10:00a-12:00n CST	TBA via T10 Reflector / Cox
SAS PHY Call	Thu Jan 10 10:00a-12:00n CST	TBA via T10 Reflector / Cox

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

Activity	Contact	Telephone/Email
ADT-2, ADC-2, ADC-3	Paul Stone	(949) 725-1874 paul dot stone at quantum dot com
SES-2, SAS-1.1, SAS-2, BCC, SDI	Rob Elliott	(281) 518-5037 Elliott at hp dot com
MMC-5, MMC-6	Bill McFerrin	(325) 423-1560 billmc37 at ctesc dot net
SBP-3	Peter Johansson	(510) 527-3926 PJohansson at ACM dot org
SAM-4, SBC-3	George Penokie	(507) 253-5208 gop at us dot ibm dot com
SAT-2	Mark Overby	(425) 417-9412 moverby at nvidia dot com
SMC-2	Erich Oetting	(303) 673-2178 Erich_Oetting at Stortek dot com
SMC-3	Noud Snelder	+31408446108 Noud dot snelder at bdt dot de
SPC-3, SAM-3, SPC-4, OSD-2	Ralph Weber	(214) 912-1373 roweber at acm dot org
SSC-3, FCP-3, FCP-4	Dave Peterson	(763) 268-6139 david dot peterson at brocade dot com
Other Activities	John Lohmeyer	(719) 533-7560 lohmeier at t10 dot org

The long-term T10 meeting week schedule is:

Dates	Location	Host / Comments
Nov 5-9, 2007	Las Vegas, NV	Hitachi GST
Jan 14-18, 2008	Santa Ana, CA	Western Digital
Mar 10-14, 2008	Raleigh, NC	Network Appliance
May 5-9, 2008	Santa Clara, CA	Nvidia
Jul 14-18, 2008	Anchorage, AK	Emulex
Sep 8-12, 2008	Colorado Springs, CO	LSI Corp.
Nov 3-7, 2008		
Jan 12-16, 2009	Lake Mary, FL	Symantec
Mar 9-13, 2009		
May 4-8, 2009	Seattle, WA	Microsoft Corp.
Jul 13-17, 2009	Colorado Springs, CO	LSI Corp.
Sep 7-11, 2009	Boston, MA	EMC Corp.
Nov 9-13, 2009	Las Vegas, NV	Hitachi GST
<i>Jan 11-15, 2010</i>		
<i>Mar 8-12, 2010</i>		
<i>May 3-7, 2010</i>		
<i>Jul 12-16, 2010</i>		
<i>Sep 13-17, 2010</i>		
<i>Nov 8-12, 2010</i>		

NOTE: Dates, locations, and hosts shown above in *red italic font* have not been approved by T10 yet and are subject to change.

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

John Lohmeyer moved and Bill Martin seconded that T10 approve the 2009 meeting locations and hosts. In the absence of any objections, the motion passed unanimously.

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.

Jay Neer 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 2007. Bob Nixon 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 3:47 p.m. on Thursday November 8, 2007.

Enclosure(1) -- Meeting Attendees

Name	S	Organization
Mr. Paul von Stamwitz	P	AMCC
Mr. Gregory McSorley	P	Amphenol Interconnect
Mr. David Peterson	P	Brocade
Mr. Robert Snively	A	Brocade
Mr. Kevin Marks	P	Dell, Inc.
Mr. David Black	A	EMC Corp.
Mr. Gary S. Robinson	P	EMC Corp.
Mr. William Martin	P	Emulex
Mr. Robert H. Nixon	A	Emulex
Mr. Ralph O. Weber	P	ENDL Texas
Mr. David Freeman	P	Finisar Corp.
Mr. Elwood Parsons	P	Foxconn Electronics
Mr. Mike Fitzpatrick	P	Fujitsu
Mr. Michael Banther	A	Hewlett Packard Co.
Mr. Rob Elliott	P	Hewlett Packard Co.
Mr. Dan Colegrove	P	Hitachi Global Storage Tech.
Mr. Kevin Butt	P	IBM Corp.
Mr. George O. Penokie	A	IBM Corp.
Mr. Joel Silverman	P	Kawasaki Microelectronics Am
Mr. Dennis Moore	P	KnowledgeTek, Inc.
Mr. John Geldman	P	Lexar Media, Inc.
Mr. John Lohmeyer	P	LSI Corp.
Mr. Paul Wassenberg	A	Marvell Semiconductor, Inc.
Mr. Gregory Tabor	P	Maxim Integrated Products
Mr. David Burg	V	Microsoft Corp.
Mr. Robert Griswold	A	Microsoft Corp.
Mr. Jay Neer	P	Molex Inc.
Mr. Subhash Sankuratripati	A	Network Appliance
Mr. Mark Overby	P	Nvidia Corp.
Mr. Tim Symons	P	PMC-Sierra
Mr. Craig W. Carlson	AV	QLogic Corp.
Dr. Paul Suhler	P	Quantum Corp.
Mr. Michael Rogers	A	Samsung
Mr. Dhaval Parikh	V	SanDisk Corporation
Mr. Avraham Shimor	P	SanDisk Corporation
Mr. Alvin Cox	A	Seagate Technology
Mr. Gerald Houlder	P	Seagate Technology
Mr. David Deming	AV	Solution Technology
Mr. Erich Oetting	P	Sun Microsystems, Inc.
Mr. Raymond Gilson	A	Symantec Corporation
Mr. Michael Fogg	V	Tyco Electronics
Mr. Dan Gorenc	A	TycoElectronics
Mr. Scott Shuey	A	TycoElectronics
Mr. Mark Evans	P	Western Digital
Mr. Curtis Stevens	A	Western Digital

45 People Present

Status Key: P - Principal
 A - Alternate
 AV - Advisory Member
 E - Emeritus
 L - Liaison
 V - Visitor

Enclosure(2) -- ISO Status

T10 ISO Status Report - 11/08/2007

ISO Proj.	Acronym	Part Num.	Last Step Completed	Comments
1.25.13.10.14	RL	24740	S5: FDIS Motion sent to INCITS	In FDIS ballot, ends 2008-1-5, T10 has approved
1.25.13.11.13	SMC	14776-351	S7: IS Published	Published
1.25.13.11.19	SAM-2	14776-412	S7: IS Published	Published
1.25.13.11.22	SES-2	14776-372	S2: NWIP Approved	Waiting for FCD text
1.25.13.11.28	SPI-4	14776-114	S8: WITHDRAWAL, INCITS as JTC1 TAG votes	INCITS Approved Withdrawal
1.25.13.11.31	SBC-2	14776-322	S7: IS Published	
1.25.13.11.33	SPC-3	14776-453	S5: SC25 requests JTC1 to start FDIS ballot	In FDIS Ballot, need T10 motion
1.25.13.11.37	SSM-2	14776-132	S8: WITHDRAWAL, SC25 Resolution	Voted to remove from SC25 Program of Work., Resolution BL-WG4-11
1.25.13.11.38	PIP	14776-121	S5: INCITS votes on FDIS in JTC1	FDIS Ballot in process 25N1352, closes 2007-12-02
1.25.13.11.39	SBP-3	14776-233	S8: WITHDRAWAL, SC25 Resolution	Voted to remove from SC25 Program of Work, Resolution BL-WG4-13
1.25.13.11.45	SAM-3	14776-413	S6: SC25 sends FDIS to JTC1 for publishing	Sent for publication
1.25.13.11.46	SAS-1.1	14776-151	S2: NWIP Approved	CD was approved, text needed for FCD

T10 ISO Status Report - 11/08/2007

ISO Proj.	Acronym	Part Num.	Last Step Completed	Comments
1.25.13.11.47	FCP-3	14776-223	S3: FCD Motion sent to INCITS	FCD Ballot in process 25n1367, T10 voted to approve
1.25.13.18-1	ATAPI-7-1	24739-1	S5: INCITS votes on FDIS in JTC1	FDIS in ballot This is volume 1 of 3.
1.25.13.18-2	ATAPI-7-2	24739-2	S3: FCD Motion sent to INCITS	FCD text sent to SC25, ready for FCD ballot, T10 voted to approve
1.25.13.18-3	ATAPI-7-3	24739-3	S3: SC25 started FCD ballot	FCD Ballot out 25n1412, closing 2008-02-25, need t10 motion
1.25.13.__. __ -	RBC-2	14776-326	S1: SC25 TAG sent NWIP to SC25	Integrate US RBC amendment into base document
1.25.13.__. __ -	SAT	14776-921	S1: NWIP Generated	NWIP T10/07-500r0, needs motion in T10
1.25.13.__. __ -	SPC	14776-311/451	S8: WITHDRAWAL, INCITS as JTC1 TAG votes	INCITS Approved Withdrawal

Enclosure(3) -- T10 Attendance Database

Generated on 2007/11/14 at 10:36:05

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