

Accredited Standards Committee\*

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

**Doc. No.:** T10/08-211r0

**Date:** May 12, 2008

**Reply to:** John Lohmeyer

To: T10 Membership  
From: Ralph Weber / John Lohmeyer  
Subject: Minutes of T10 Plenary Meeting #85 -- May 8, 2008  
San Jose, CA

## Agenda

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**INCITS Secretariat, Information Technology Industry Council (ITI)**

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10. Old Business
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12. Liaison Reports
  - 12.1 T11 Liaison Report [Snively]
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  - 14.1 Authorization of Working Group Meetings
15. Adjournment

## **Results of Meeting**

### **1. Opening Remarks**

John Lohmeyer, the T10 Chair, called the meeting to order at 1:30 p.m., Thursday May 8, 2008. He thanked Mark Overby and Christine Evans of Nvidia for hosting the meeting.

John extended a special welcome to Karen Higginbottom, INCITS Executive Board Chair.

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 mem-

bership 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).

John briefly discussed the mailing fees. Complete pricing information is contained in the 2008 membership form (available at [http://www.t10.org/ftp/t10/mem\\_form.txt](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.

The Chair said he had sent emails to 6 people from 4 organizations informing them that the organization's membership was in jeopardy due to non-attendance (see 08-176r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

- Amphenol Interconnect
- General Dynamics
- lomega Corp.
- STMicroelectronics, Inc.

All organizations in attendance jeopardy were present.

Had representatives of these organizations not been present, their representatives changed to Advisory (non-voting) status.

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

The T10 membership during the meeting was 37 organizations, unchanged from the 37 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 -- 2008/05/01

Organization	Ballot: Report: Acronym:	07-513r0 07-514r0 SAM4 NWIP	08-092r0 08-093r0 SAS-2	08-096r0 08-097r0 SSC-3
Dell, Inc.		Yes	DNV	Yes
Intel Corp.		DNV	No	Yes
NeoScale Systems Inc.	(*)	DNV	--	DNV

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 - March 2008 - Raleigh, NC (T10/08-133r0)**

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 May 15, 2008. 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](mailto: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 Corp. 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.

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

John Lohmeyer noted that LSI Corp. recently submitted a patent statement (T10/08-189r0) regarding ISO-IEC standards.

John Lohmeyer reported that Pioneer Corp. had submitted a patent statement (T10/08-242r0) regarding the MMC standards.

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**

- 694 John Lohmeyer will forward the SCSI Architecture Model - 5 (SAM-5) project proposal (08-124r1) to INCITS for further processing. *Complete.*
- 695 John Lohmeyer will notify INCITS that T10 recommends that INCITS reaffirm the EPI technical report (INCITS TR-23-1998). *Complete.*
- 696 John Lohmeyer will forward T10/08-143r0 to INCITS for processing as a waiver to INCITS RD-1 clause 3.2. *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.

Rob asked the committee to consider withdrawing the BCC project during the July Plenary.

Rob Elliott took an action item to notify the T10 Reflector of plans to withdraw the BCC project in July.

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

Rob Elliott reported that 08-049r4 contains the proposed resolutions to the SES-2 letter ballot comments and SES-2 revision 19d incorporates the resolutions.

Rob Elliott moved that 08-049r4 be approved as resolving the letter ballot comments on SES-2 and that SES-2 revision 20, which incorporates the comment resolutions, be forwarded to INCITS for further processing toward first public review. Bob Nixon seconded the motion. The motion passed on a vote of 32:0:0:5=37.

Based on the successful resolution of the letter ballot comments, the following people requested that their original No votes on the SES-2 letter ballot be changed to Yes:

Rob Elliott, Hewlett Packard Co. and  
Kevin Butt, IBM Corp.  
Roger Cummings, Symantec (by email)

John Lohmeyer took an action item to forward SES-2 revision 20 to INCITS for further processing toward 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 08-222). Dave also provided an electronic report in 08-233r0. Dave reported that the working group reviewed a project proposal for SSC-4 (08-136). Due to a snafu, it was not placed on the T10 agenda in time for consideration at this meeting and will be considered at the July meeting.

### **8.5 SCSI Architecture Model - 4 (SAM-4) Project 1683-D [Penokie]**

George Penokie reported that 07-478r7 contains the proposed resolutions to the SAM-4 letter ballot comments and SAM-4 r13i incorporates the resolutions.

George Penokie moved that 07-478r7 be approved as resolving the letter ballot comments on SAM-4 and that SAM-4 revision 14, which incorporates the comment resolutions, be forwarded to INCITS for further processing toward first public review. Bill Martin seconded the motion. The motion passed on a vote of 31:0:0:6=37.

Based on the successful resolution of the letter ballot comments, the following people requested that their original No votes on the SAM-4 letter ballot be changed to Yes:

Rob Elliott, Hewlett Packard Co. and  
Mark Evans, Western Digital Corp.

John Lohmeyer took an action item to forward SAM-4 revision 14 to INCITS for further processing toward first public review.

### **8.6 Object-Based Storage Devices - 2 (OSD-2) Project 1729-D [Weber]**

Ralph Weber reported that work on OSD-2 has been deferred to the July meeting week.

### **8.7 SCSI Media Changer Command Set - 3 (SMC-3) Project 1730-D [Ballard]**

Curtis Ballard reported on the activities of the SMC-3 working group (minutes in 08-190 and 08-217), and provided an electronic report in 08-238r0.

### **8.8 SCSI Primary Commands - 4 (SPC-4) Project 1731-D [Weber]**

Ralph Weber reported that SPC-4 r14 was included in the last mailing. SPC-4 r15 will be prepared during May but not in time for the mailing, and will include all proposals approved at this meeting.

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

John Lohmeyer reported that ADC-2 has passed the INCITS for management review and the INCITS approval letter ballot closes today. It should go to ANSI next week.

**8.10 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 08-223). Paul provided an electronic report in 08-225.

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

John Lohmeyer reported that the SAS-2 letter ballot passed 27:7:2:1=37 and noted that the detailed results of the ballot are documented in 08-093. Approximately 1900 comments were received.

Rob Elliott reported that about 50% of the comments have resolutions. He noted a schedule of conference calls for the SAS Phy working group to resolve comments. A letter ballot editing session will begin after the plenary ends.

**8.12 SCSI Block Commands - 3 (SBC-3) Project 1799-D [Evans]**

Mark Evans reported that SBC-3 r15 will be prepared to incorporate the proposals approved this week. The new revision should be posted within the next few weeks, but probably not in time for the mailing.

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

Mark Overby reported that a SAT-2 working group meeting was held April 25th in Henderson, NV (minutes in 08-204r0) and May 6th (minutes in 08-209).

A SAT-2 working group meeting is planned for June 23 in Denver, CO.

SAT-2 r05 will be prepared to incorporate the proposals approved at this meeting, but probably not in time for the mailing. A letter ballot is planned following the July meeting.

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

Dave Peterson discussed the activities of the FCP-4 working group (minutes in 08-229). Dave provided an electronic report in 08-234r0.

The target letter ballot date is September 2008, and the target public review date is January 2009.

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

Bill McFerrin reported that the minutes for the MMC-6 working group can be found in 08-236. He noted that work on optical storage is winding down somewhat. He reported that noise control is becoming an issue in the optical storage industry and a proposal will be developed.

The target for forwarding MMC-6 is November 2008.

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

Paul Suhler reported on the activities of the ADI working group (minutes in 08-223). Paul provided an electronic report in 08-225.

**8.17 USB Queuing Transport (UAS) Project 2095-D [Stevens]**

Curtis Stevens reported that the content for the first UAS revision was approved by the CAP working group (minutes in 08-210). He noted that the first approved working draft of UAS which will be posted as UAS r01. He

noted that differed from the r00 revision nomenclature agreed to by the CAP working group due to details of the T10 web site operating procedures.

### 8.18 SCSI Architecture Model - 5 (SAM-5) Project 2104-D [Penokie]

George Penokie reported that SAM-5 r00 will be posed based on SAM-4 r20 later this week.

## 9. ISO/IEC

### 9.1 ISO/IEC Report [Robinson]

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

Gary Robinson took an action item to generate a NWIP for SAM-4.

### 9.2 ISO/IEC Business [Robinson]

#### 9.2.1 FCD ISO/IEC 14776-326, Reduced Block Commands (RBC)

Gary Robinson moved that T10 recommends that the SC25 TAG vote to approve 25N \_\_\_\_, FCD ISO/IEC 14776-326 Information technology Small Computer System Interface Part 326: Reduced Block Commands (RBC) (RBC-2). Mark Overby seconded the motion.

The roll-call motion passed: 31:0:0:6=37 as documented below.

Organization	Voter	Vote
AMCC		(not present)
Amphenol Interconnect	Gregory McSorley	Yes
Brocade	David Peterson	Yes
Dell, Inc.		(not present)
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		(not present)
Fujitsu	Mike Fitzpatrick	Yes
General Dynamics	Nathan Hastad	Yes
Hewlett Packard Co.	Rob Elliott	Yes
Hitachi Global Storage Tech.	Dan Colegrove	Yes
IBM Corp.	Kevin Butt	Yes
Intel Corp.	Mark Seidel	Yes
Iomega Corp.	Robert Payne	Yes
Kawasaki Microelectronics Am	Joel Silverman	Yes
KnowledgeTek, Inc.	Dennis Moore	Yes
Lexar Media, Inc.	John Geldman	Yes
LSI Corp.	George Penokie	Yes
Marvell Semiconductor, Inc.	David Geddes	Yes
Maxim Integrated Products	Gregory Tabor	Yes
Microsoft Corp.	Robert Griswold	Yes
Molex Inc.		(not present)
NetApp	Frederick Knight	Yes
Nvidia Corp.	Mark Overby	Yes
PMC-Sierra	Tim Symons	Yes
Quantum Corp.	Paul Suhler	Yes



Samsung	Michael Rogers	Yes
SanDisk Corporation	Yoni Shternhell	Yes
Seagate Technology	Gerald Houlder	Yes
STMicroelectronics, Inc.	Stephen Finch	Yes
Sun Microsystems, Inc.	Erich Oetting	Yes
Symantec		(not present)
TycoElectronics	Dan Gorenc	Yes
Western Digital	Mark Evans	Yes

This two-thirds international roll call vote passed (31:0:0:6=37).

John Lohmeyer took an action item to transmit FCD recommendation on RBC to INCITS for further processing.

### 9.2.2 FCD ISO/IEC 14776-921, SCSI / ATA Translation Layer (SAT)

Gary Robinson moved that T10 recommends that the SC25 TAG vote to approve 25N \_\_\_\_, FCD ISO/IEC 14776-921 Information technology Small Computer System Interface Part 921: SCSI / ATA Translation Layer (SATL) (SAT). Mark Overby seconded the motion.

The roll-call motion passed: 31:0:0:6=37 as documented in 9.2.1.

John Lohmeyer took an action item to transmit FCD recommendation on SAT to INCITS for further processing.

### 9.2.3 FDIS 1.25.13.18-2 ATAPI-7-2

Gary Robinson moved that T10 has reviewed the FDIS, 1.25.13.18-2 ATAPI-7-2 24739-2, and recommends that the JTC1 TAG vote to approve said FDIS. Mark Overby seconded the motion.

The roll-call motion passed: 31:0:0:6=37 as documented in 9.2.1.

John Lohmeyer took an action item to transmit FDIS recommendation on ATAPI-7-2 to INCITS for further processing.

### 9.2.4 FDIS 1.25.13.18-3 ATAPI-7-3

Gary Robinson moved that T10 has reviewed the FDIS, 1.25.13.18-3 ATAPI-7-3 24739-3, and recommends that the JTC1 TAG vote to approve said FDIS. Mark Overby seconded the motion.

The roll-call motion passed: 31:0:0:6=37 as documented in 9.2.1.

John Lohmeyer took an action item to transmit FDIS recommendation on ATAPI-7-3 to INCITS for further processing.

## 10. Old Business

### 10.1 Project Proposals for next generation SAS

#### 10.1.1 Project Proposal for Serial Attached SCSI - 2.1 (SAS-2.1) (08-110) [Elliott]

Discussion of this topic was deferred to the next meeting.

#### 10.1.2 Project Proposal: Alternate Serial Attached SCSI 2.1 (08-117) [Butt]

Discussion of this topic was deferred to the next meeting.

#### 10.1.3 Project Proposal: Serial Attached Protocol (SAP) (08-118) [Butt]

Discussion of this topic was deferred to the next meeting.

## 11. New Business

### 11.1 INCITS Disapproval of T10's Waiver Request (in080452) [Garner]

John Lohmeyer reported that the INCITS Executive Board voted 10:0:2:5=17 to deny the T10 waiver request, reportedly based principally on a preference not to grant waivers of any kind.

Subsequent to that, the officers of T10, T11, T13 met with representatives of the INCITS Executive Board, and work was begun toward addressing the issues.

Karen Higginbottom reported that INCITS is working to develop a stronger operating structure for the INCITS TCs. A major challenge has been addressing the needs of the wide variety of TCs in INCITS. Some of the necessary procedural differences have not been addressed yet, but work is in progress.

John noted that the earliest opportunity to receive notice of additional efforts would be in late July because the next INCITS Executive Board meeting is the week of July 14th.

### 11.2 Actions on SAS Protocol Working Group Recommendations

The SAS Protocol working group made no recommendations to the committee this month.

### 11.3 Actions on SAS PHY Working Group Recommendations

The SAS PHY working group made no recommendations to the committee this month.

### 11.4 Actions on SAT Working Group Recommendations

Mark Overby reviewed 08-230r0 (Translation of zero-length security commands (2)) [Overby] recommended for inclusion in SAT-2. Mark Overby and Fred Knight reviewed 07-485r6 (Additional power management methods) [Knight] recommended for inclusion in SAT-2 and SPC-4.

Fred Knight moved that 08-230r0 be approved for inclusion in SAT-2; and that 07-485r6 be approved for inclusion in SAT-2 and SPC-4. Mark Overby seconded the motion. In the absence of objections, the motion passed unanimously.

### 11.5 Actions on CAP Working Group Recommendations

Mark Evans reviewed the following proposals recommended for inclusion in SPC-4:

- 08-145r3 (Capability-based Command Security (CbCS)) [the rewrite] [Weber]
- 08-177r0 (Bogus Sense Key in SA Creation Parameter Data Error Handling) [Weber]
- 08-178r0 (IKEv2-SCSI Message ID field size correction) [Weber]
- 08-180r0 (SCSI device name cleanup in SPC-4) [Weber]
- 08-194r1 (Common definition for CODE SET) [Ballard]
- 08-199r1 (Even more log page cleanup) [Evans]
- 08-214r1 (Allowing ESP-SCSI descriptors in variable length CDBs) [Weber]
- 08-231r1 (SPEC\_I\_PT clarification) [Knight]

Mark Evans reviewed 08-156r2 (Non-volatile cache becoming volatile) [Penokie] a proposal recommended for inclusion in SPC-4 and SBC-3.

Curtis Stevens review 08-221r1, the document whose content was recommended to become the first approved revision of the UAS working draft.

Curtis Stevens moved that 08-145r3, 08-177r0, 08-178r0, 08-180r0, 08-194r1, 08-199r1, 08-214r1, and 08-231r1 be approved for inclusion in SPC-4; and that 08-156r2 be approved for inclusion in SPC-4 and SBC-3; and that

08-221r0 be approved as the content for the first revision of UAS. Mark Overby seconded the motion. In the absence of objections, the motion passed unanimously.

## **11.6 Actions on Other Working Group Recommendations**

Dave Peterson reviewed 08-127r2 (FC-4 Features object and device type support) [Peterson] a proposal recommended for inclusion in FCP-4.

Kevin Butt moved that 08-127r2 be approved for inclusion in FCP-4. Dave Peterson seconded the motion. In the absence of objections, the motion passed unanimously.

## **11.7 Contract Editing proposal on ISO/IEC SAS-1.1 (08-197) [Weber]**

John Lohmeyer reported that editing assistance is needed to complete ISO/IEC SAS-1.1, due in part to the ISO usage of FrameMaker 7, a product to which SAS-1.1 editor Rob Elliott does not have access.

John Lohmeyer moved that T10 approve 08-197r0 SAS-1.1 ISO editing proposal, and authorize payment upon completion of services. Bill Martin seconded the motion. The motion passed 29:0:0:8=37.

John Lohmeyer took an action item to report to INCITS that \$5,000 of the T10 editing fund has been approved for payment for editing services on ENDL Texas.

## **11.8 Project proposal for SSC-4 (08-136) [Peterson]**

John Lohmeyer noted that due to a snafu, this item was not added to the T10 agenda until one week ago, and therefore cannot be forwarded at this meeting. It will be consider at the July meeting.

## **12. Liaison Reports**

### **12.1 T11 Liaison Report [Snively]**

Bob Snively presented the T11 electronic liaison report (08-213).

### **12.2 T13 Liaison Report [Colegrove]**

Dan Colegrove provided an electronic report in 08-087r2 and made an oral report to the committee on the activities of T13. For additional details regarding T13 activities see [www.t13.org](http://www.t13.org).

### **12.3 SCSI Trade Association (STA) [Czekalski]**

In the absence of Marty Czekalski, John Lohmeyer presented an electronic report (08-235) on the activities of the SCSI Trade Association.

### **12.4 IEEE P1619 [Ball]**

In the absence of Matt Ball, Landon Noll presented the electronic IEEE 1619 liaison report that Matt had prepared (08-173r1).

## **13. Review of Action Items**

- 697 Rob Elliott will notify the T10 Reflector of plans to withdrawn the BCC project in July.
- 698 John Lohmeyer will forward SES-2 revision 20 to INCITS for further processing toward first public review.
- 699 John Lohmeyer will forward SAM-4 revision 14 to INCITS for further processing toward first public review.
- 700 Gary Robinson will generate a NWIP for SAM-4.
- 701 John Lohmeyer will transmit FCD recommendation on RBC to INCITS for further processing.

- 702 John Lohmeyer will transmit FCD recommendation on SAT to INCITS for further processing.
- 703 John Lohmeyer will transmit FDIS recommendation on ATAPI-7-2 to INCITS for further processing.
- 704 John Lohmeyer will transmit FDIS recommendation on ATAPI-7-3 to INCITS for further processing.
- 705 John Lohmeyer will report to INCITS that \$5,000 of the T10 editing fund has been approved for payment for editing services on ENDL Texas.

#### **14. Meeting Schedule**

The next plenary meeting of T10 will be Thursday July 17, 2008 in Anchorage, AK at the Sheraton Anchorage Hotel (Reservations: 907-276-8700) hosted by Emulex. The meeting will begin at 1:30 p.m. on Thursday.

The meeting list for the next plenary week is:

July 2008 Meeting Map  
(2008/05/08 Version)

Monday 7/14	9	10	11	12	1	2	3	4	5	6	7	8		
	+=====+													
		SMC-3 WG				/	ADI-2 WG						(15)	
	+=====+													
		SAS Protocol WG											(40)	
	+=====+													
Tuesday 7/15	9	10	11	12	1	2	3	4	5	6	7	8		
	+=====+													
		SAS Physical WG											(45)	
	+=====+													
		SAT WG				STA Marcom		/	BOD				(20)	
	+=====+													
		FCP-4			/	SSC-3 WG							(25)	
	+=====+													
		MMC WG											(15)	
	+=====+													
Wednesday 7/16	9	10	11	12	1	2	3	4	5	6	7	8		
	+=====+													
		CAP WG											(45)	
	+=====+													
		Mt Fuji											(15)	
	+=====+													
		STA Plen*				TCC*			SFF				(25)	
	+=====+													
Thursday 7/17	9	10	11	12	1	2	3	4	5	6	7	8		
	+=====+													
		CAP WG				////			T10 Plenary/LB cmnt				(45/50/10)	
	+=====+													
Friday 7/18	8	9	10	11	12	1	2	3	4	5	6	7	8	
	No meetings are 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.

## 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-2 LB Resolution Call	Wed May 21 10:00a-12:00n CDT	TBA via T10 Reflector / Elliott&Penokie
SAS PHY Call	Thu May 22 10:00a-12:00n CDT	TBA via T10 Reflector / Cox
SAS-2 LB Resolution Call	Wed May 28 10:00a-12:00n CDT	TBA via T10 Reflector / Elliott&Penokie
I/F Power Management	Wed May 28 2:00p-4:00p CDT	TBA via T10 Reflector / Houlder
SMC-3 Call	Wed May 28 8:00a-10:00a PDT	TBA via T10 Reflector / IBM
SAS PHY Call	Thu May 29 10:00a-12:00n CDT	TBA via T10 Reflector / Cox
ADI Call	Wed Jun 4 8:00a-10:00a PDT	TBA via T10 Reflector / Quantum
SAS PHY Call	Thu Jun 5 10:00a-12:00n CDT	TBA via T10 Reflector / Cox
SAS-2 LB Resolution Call	Wed Jun 11 10:00a-12:00n CDT	TBA via T10 Reflector / Elliott&Penokie
SAS PHY Call	Thu Jun 12 10:00a-12:00n CDT	TBA via T10 Reflector / Cox
SAS-2 LB Resolution Call	Wed Jun 18 10:00a-12:00n CDT	TBA via T10 Reflector / Elliott&Penokie
ADI Call	Wed Jun 18 8:00a-10:00a PDT	TBA via T10 Reflector / Quantum
SAS PHY Call	Thu Jun 19 10:00a-12:00n CDT	TBA via T10 Reflector / Cox
SAT-2 WG	Mon Jun 23 11:00a-6:00p MDT	Denver, CO / Lohmeyer
SAS PHY Call	Thu Jun 26 10:00a-12:00n CDT	TBA via T10 Reflector / Cox
SAS PHY Call	Thu Jul 3 10:00a-12:00n CDT	TBA via T10 Reflector / Cox
SAS-2 LB Resolution Call	Wed Jul 9 10:00a-12:00n CDT	TBA via T10 Reflector / Elliott&Penokie
SAS PHY Call	Thu Jul 10 10:00a-12:00n CDT	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
May 5-9, 2008	San Jose, CA	Nvidia
Jul 14-18, 2008	Anchorage, AK	Emulex
Sep 8-12, 2008	Colorado Springs, CO	LSI Corp.
Nov 3-7, 2008	Santa Ana, CA	Western Digital
Jan 12-16, 2009	Orlando, FL	Symantec
Mar 9-13, 2009	<i>Oklahoma City, OK</i>	<i>Fujitsu</i>
May 4-8, 2009	Bellevue, WA	Microsoft Corp.
Jul 13-17, 2009	Colorado Springs, CO	LSI Corp.
Sep 14-18, 2009	Boston, MA	EMC Corp.
Nov 9-13, 2009	Las Vegas, NV	Hitachi GST
Jan 11-15, 2010	Santa Ana, CA	Western Digital
Mar 8-12, 2010	<i>San Jose, CA</i>	<i>Finisar</i>
May 3-7, 2010	<i>Seattle, WA</i>	<i>Microsoft</i>
Jul 12-16, 2010	<i>Colorado Springs, CO</i>	<i>LSI Corp.</i>
Sep 13-17, 2010	<i>San Jose, CA</i>	<i>Nvidia</i>
Nov 8-12, 2010		

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.

#### **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.

Bob Nixon moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved. Paul Suhler 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 3:15 p.m. on Thursday May 8, 2008.

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

Name	S	Organization
Mr. Gregory McSorley	P	Amphenol Interconnect
Mr. David Peterson	P	Brocade
Mr. Robert Snively	A	Brocade
Mr. William McFerrin	V	DataPlay
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. Douglas Wagner	P	FCI
Mr. David Freeman	P	Finisar Corp.
Mr. Mike Fitzpatrick	P	Fujitsu
Mr. Nathan Hastad	P	General Dynamics
Mr. Curtis Ballard	A	Hewlett Packard Co.
Mr. Rob Elliott	P	Hewlett Packard Co.
Ms. Karen Higginbottom	V	Hewlett Packard Co.
Mr. Dan Colegrove	P	Hitachi Global Storage Tech.
Mr. Kevin Butt	P	IBM Corp.
Dr. Mark Seidel	P	Intel Corp.
Mr. Robert Payne	P	Iomega 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. George Penokie	A	LSI Corp.
Mr. David Geddes	P	Marvell Semiconductor, Inc.
Mr. Gregory Tabor	P	Maxim Integrated Products
Mr. Robert Griswold	A	Microsoft Corp.
Mr. Chris Fore	A	NetApp
Mr. Frederick Knight	P	NetApp
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. Yoni Shternhell	A	SanDisk Corporation
Mr. Schelto vanDoorn	V	Schelto
Mr. Alvin Cox	A	Seagate Technology
Mr. Gerald Houlder	P	Seagate Technology
Mr. Stephen Finch	P	STMicroelectronics, Inc.
Mr. Erich Oetting	P	Sun Microsystems, Inc.
Mr. Georg Boasson	V	Tandberg Storage
Mr. Dan Gorenc	A	TycoElectronics
Mr. Andrew Nowak	V	TycoElectronics
Mr. Mark Evans	P	Western Digital
Mr. Curtis Stevens	A	Western Digital
Mr. Alan Westbury	V	Xyratex

47 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 - 05/08/2008

ISO Proj.	Acronym	Part Num.	Last Step Completed	Comments
1.25.13.11.22	SES-2	14776-372	S2: NWIP Approved	STILL !!!!! Waiting for FCD text
1.25.13.11.25.01	RBC-2	14776-326	S3: SC25 started FCD ballot	FCD Ballot, 25N1494, ends 8/18/2008, need T10 motion
1.25.13.____	SAT	14776-921	S3: SC25 started FCD ballot	FCD Ballot, 25N1502, ends 8/12/2008, need T10 motion
1.25.13.11.46	SAS-1.1	14776-151	S4: FDIS sent to SC25	FCD approved, FDIS text sent to SC25
1.25.13.11.38	PIP	14776-121	S5: FDIS ballot complete	Completed FDIS Ballot
1.25.13.11.33	SPC-3	14776-453	S5: FDIS ballot complete	FDIS Approved
1.25.13.18-2	ATAPI-7-2	24739-2	S5: SC25 requests JTC1 to start FDIS ballot	FCD Approved FDIS TEXT sent
1.25.13.18-3	ATAPI-7-3	24739-3	S5: SC25 requests JTC1 to start FDIS ballot	FCD Approved FDIS TEXT sent
1.25.13.18-1	ATAPI-7-1	24739-1	S6: SC25 sends FDIS to JTC1 for publishing	Ready for publication
1.25.13.11.47	FCP-3	14776-223	S6: SC25 sends FDIS to JTC1 for publishing	FDIS Approved
1.25.13.10.14	RL	24740	S6: SC25 sends FDIS to JTC1 for publishing	Approved as IS
1.25.13.11.45	SAM-3	14776-413	S6: SC25 sends FDIS to JTC1 for publishing	Sent for publication
1.25.13.11.19	SAM-2	14776-412	S7: IS Published	Published
1.25.13.11.31	SBC-2	14776-322	S7: IS Published	
1.25.13.11.13	SMC	14776-351	S7: IS Published	Published
1.25.13.____	SPC	14776-311/451	S8: WITHDRAWAL, INCITS as JTC1 TAG votes	INCITS Approved Withdrawal
1.25.13.11.28	SPI-4	14776-114	S8: WITHDRAWAL, INCITS as JTC1 TAG votes	INCITS Approved Withdrawal
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

**T10 ISO Status Report - 05/08/2008**

<b>ISO Proj.</b>	<b>Acronym</b>	<b>Part Num.</b>	<b>Last Step Completed</b>	<b>Comments</b>
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

**Enclosure(3) -- T10 Attendance Database**

Generated on 2008/05/12 at 10:49:24

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