

Accredited Standards Committee\*

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

**Doc. No.:** T10/06-041r1

**Date:** January 30, 2006

**Reply to:** John Lohmeyer

To: T10 Membership  
From: Ralph Weber / John Lohmeyer  
Subject: Minutes of T10 Plenary Meeting #71 -- January 12, 2006  
Phoenix, AZ

**Agenda**

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- 15. Adjournment

## Results of Meeting

### 1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday January 12, 2006. He thanked Bob Sheffield of Intel Corp. for hosting the meeting.

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

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

### 2. Approval of Agenda

No additions/changes were made to the draft agenda:

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

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

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

### 3. Attendance and Membership

The membership requirements were reviewed. INCITS rules permit one vote per organization. An individual from a new organization must attend two out of three consecutive plenary meetings. He/she may apply for voting membership the second meeting via a letter to the Chair of T10. The individual may begin voting at the beginning of his/her second meeting.

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

John briefly discussed the mailing fees. Complete pricing information is contained in the 2006 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 11 people from 6 organizations informing them that their membership was in jeopardy due to non-attendance (see 05-442r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

- Amphenol Interconnect
- Brocade Comm. Systems, Inc.
- Cisco Systems, Inc.
- General Dynamics
- Iomega Corp.
- Toshiba

All organizations in attendance jeopardy were present except:

- Cisco Systems, Inc.
- Toshiba

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

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

The T10 membership during the meeting was 45 organizations, down from the 47 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 -- 2005/04/29

Ballot:	04-326r0	05-125r0	05-134r0
Report:	04-327r0	05-126r0	05-135r0
Acronym:	SPC-3	SAS-1.1	FCP-3

Organization			
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Agilent Technologies	DNV	Yes	Yes
Crossroads Systems, Inc. (*)	Yes	DNV	DNV
QLogic Corp.	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 (and has voluntarily changed to Advisory status)

#### **4. Approval of Minutes - November 2005 - Austin, TX (T10/05-420r0)**

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 January 19, 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 native-format and/or Portable Document Format (PDF) electronic originals with proper identification must be submitted.

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

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

John noted that non-members can also use the above document number process, but their requests will require approval by an administrator.

Minutes 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 Logic maintains a web site on behalf of T10 on a server donated by the SCSI Trade Association at:

<http://www.t10.org/>

There is also a mirror site at:

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

The T10 document register is available at:

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

## 6. Call for Patents

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

For additional information on ANSI procedures and the ANSI patent policy, please see the INCITS web page at <http://www.incits.org/call.htm>. The contact for INCITS patent issues is Lynn Barra (lbarra at itic dot org) or (202) 626-5739. Gene Milligan prepared a useful "Handy dandy Technical Committee's Patents Guide", which is available at <ftp://ftp.t10.org/t10/document.99/99-291r0.pdf>.

John Lohmeyer presented a summary of the ANSI patent policy prepared by Gary Robinson. The summary is also included on the Rules and Procedures (plus Patent Information) page on the T10 web site.

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

John Lohmeyer said that he had received a letter from Nero AG (T10/06-009r0) stating that they have applied for a patent on Timely Safe Recording (TSR) regarding the draft MMC-5 standard.

John Lohmeyer said that he had received a letter from Molex Inc. (T10/06-063r0) stating that they will license their patents on the miniSAS connector regarding the draft SAS-1.1 standard.

Rob Elliott noted that SAS-1.1 currently does not have the patent statement noting that patents have been identified. John Lohmeyer stated that he would find the appropriate way to deal with this issue.

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

- 615 John Lohmeyer will forward 05-382r0 to INCITS as a new project proposal for SBC-3. *Complete.*
- 616 Gary Robinson will prepare an NWIP for FCP-3. *Complete.*
- 617 Gary Robinson will forward 04-411r0 to the SC25 TAG as an NWIP contribution for SPC-3 as project 1.25.13.11.33, 14776-453, to mark YES on each of the 6 questions, define Gary S Robinson as Project Editor in question 4, and normal standard development track is proposed in question 7. *Complete.*
- 618 Gary Robinson will inform the SC25 TAG that T10 has reviewed the FDIS, 1.25.13.11.31 SBC-2 14776-322, and recommends that the JTC1 TAG vote to approve said FDIS. *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/natrust.htm>.

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

- \* Any company's prices or pricing policies;
- \* Specific R&D, sales and marketing plans;
- \* Any company's confidential product, product development or production strategies;
- \* Whether certain suppliers or customers will be served;
- \* Prices paid to input sources; or
- \* Complaints about individual firms or other actions that might tend to hinder a competitor in any market.

### **8.2 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 a new SES-2 revision will be posted in time for the mailing incorporating the proposals approved by this meeting.

### **8.4 Fibre Channel Protocol - 3 (FCP-3) Project 1560-D [Peterson]**

John Lohmeyer reported that due to a SNAFU at the INCITS Secretariat, the public review on FCP-3 ends 27 February 2006.

Dave Peterson reported that the FCP-4 study group met on January 10, 2006 (minutes in 06-067). The study group has prepared a project proposal (06-032), which will be addressed at the March T10 meeting.

### **8.5 Serial Attached SCSI - 1.1 (SAS-1.1) Project 1601-D [Elliott]**

John Lohmeyer reported that due to a SNAFU at the INCITS Secretariat, the public review on SAS-1.1 ends 27 February 2006.

### **8.6 SCSI Stream Commands - 3 (SSC-3) Project 1611-D [Peterson]**

Dave Peterson presented a report summarizing the activities of the SSC-3 working group (minutes in 06-066).

Conference calls have been scheduled on January 25, February 8, and February 20 from noon until 2 pm Pacific Time to discuss key management.

### **8.7 MultiMedia Command Set - 5 (MMC-5) Project 1675-D [McFerrin]**

Bill McFerrin reported that the working group completed a review of MMC-5 draft (minutes in 06-071). A topic of interest to the group was the use of world-wide names by MMC devices. Based on consultations with the CAP working group a recommendation is in development for MMC-5.

The group expects to start a Letter Ballot on MMC-5 around the time of the March plenary.

Bill noted that an MMC-6 project proposal will be available for consideration at the March meeting.

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

George Penokie reported that a new revision of SAM-4 will be generated incorporating all approved proposals, but may not be in time for the mailing.

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

Bob Sheffield reviewed the recent SAT activities (minutes in 06-021 and 06-039). SAT r08 will be prepared in time for the next mailing to incorporate all approved proposals. The working group recommended that T10 conduct a forwarding letter ballot on SAT r08.

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

Ralph Weber reported that the SNIA TWG is nearing resolution on the Exception Management and Snapshots topics. The chances of uploading a new revision before March were estimated to be slim.

**8.11 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 06-062) with an electronic report available in 06-073r0.

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

Ralph Weber reported that SPC-4 r03 will be posted before the mailing and will incorporate all proposals approved by the November meeting and this meeting. He apologized for not preparing a revision over the holidays.

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

Rob Elliott noted that any changes to the SDI will be handled in the CAP working group and that no changes are currently proposed.

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

Paul Suhler reported on the activities of the ADI working group (minutes in 06-031) with an electronic report available in 06-072r0. A new revision of ADC-2 will be posted in time for the mailing. A call for final technical proposals has been posted and technical input will close after the March meeting.

**8.15 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 06-031) with an electronic report available in 06-073r0.

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

Rob Elliott reported that several SAS-2 protocol proposals have been recommended (minutes in 06-038). The SAS-2 physical working group (minutes in 06-068) made no recommendations. A SAS-2 revision will be posted containing all approved proposals in time for the mailing.

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

George Penokie reported SBC-3 r03 has been posed on the web site. A new revision will be prepared containing the proposals approved at this meeting, probably not in time for the mailing.

**9. Old Business**

There was no old business.

## 10. New Business

### 10.1 Project proposal for SCSI / ATA Translation - 2 (SAT-2) (05-444r1) [Overby]

John Lohmeyer led a review of the SAT-2 project proposal (05-444r1). Two volunteer editors have been identified.

John Lohmeyer moved that T10 approve 05-444r1 as a new project proposal for SCSI / ATA Translation - 2 (SAT-2). Curtis Stevens seconded the motion. The motion passed a two-thirds vote of 38:0:2:5=45.

John Lohmeyer took an action item to forward 05-444r1 to INCITS for further processing as a new project proposal for SAT-2.

### 10.2 Actions on SAS Protocol Working Group Recommendations

The recommendations from the SAS protocol working group (minutes in 06-038) were presented to the committee.

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

- 06-055r0 (More counters) [Elliott]
- 05-309r3 (Add device name to IDENTIFY address frame) [Elliott]
- 06-028r1 (Redundant Primitive Sequence Handling) [Gorshe]
- 06-054r1 (Expander Issues) [Elliott]

Rob Elliott moved that 05-309r3, 06-028r1, and 06-054r1 be approved for inclusion in SAS-2. Ron Roberts seconded the motion. The motion passed on a vote of 30:0:6:9=45.

Rob Elliott moved that 06-055r0 be approved for inclusion in SAS-2. Kevin Marks seconded the motion. The motion passed on a vote of 19:5:14:7=45.

### 10.3 Actions on SAS PHY Working Group Recommendations

There were no recommendations made by the SAS physical working group (minutes in 06-068).

### 10.4 Actions on SAT Working Group Recommendations

The recommendations from the SAT working group (minutes in 06-021 and -039) were presented to the committee.

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

- 05-245r4 (SEND DIAGNOSTIC Command and Self Test Results) [Bellamy]
- 06-001r1 (I\_T Nexus Loss) [Sheffield]
- 06-022r0 (Rewrite TEST UNIT READY) [Sheffield]
- 06-020r1 (Clarify error handling for PIO data-in commands) [Elliott/Weber]

Bob Sheffield moved that 05-245r4, 06-001r1, 06-022r0, and 06-020r1 be approved for inclusion in SAT. Ron Roberts seconded the motion. The motion passed on a vote of 31:0:7:7=45.

Bob Sheffield took an action item to prepare SAT r08. Based on the unanimous recommendation of the SAT working group, John Lohmeyer took an action item to conduct a letter ballot on forwarding SAT r08 to INCITS for first public review.



### 10.5 Actions on CAP Working Group Recommendations

The recommendations from the CAP working group (minutes in 06-040) were presented to the committee.

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

- 06-003r1 (LUN representation format) [Elliott]
- 06-025r1 (More initiator port to I\_T nexus changes) [Elliott]

Rob Elliott moved that 06-003r1 and 06-025r1 be approved for inclusion in SAM-4. Bob Nixon seconded the motion. The motion passed on a vote of 32:0:5:8=45.

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

- 06-018r0 (Update SPC-4 version field) [Weber]
- 05-157r9 (Security Commands proposal) [Houlder]
- 05-252r2 (Create well known LUN for security commands) [Houlder]

Gerry Houlder moved that 06-018r0, 05-157r9, and 05-252r2 be approved for inclusion in SPC-4. Roger Cummings seconded the motion. The motion passed on a vote of 32:0:7:6=45.

George Penokie reviewed the following proposals recommended for SPC-4 and SBC-3:

- 05-383r3 (Deferred microcode downloads) [Penokie]
- 05-340r3 (Background scan additions) [Elliott]

George Penokie moved that 05-383r3 be approved for SPC-4 and SBC-3. Bill Martin seconded the motion. The motion passed on a vote of 32:0:7:6=45.

Rob Elliott moved that 05-340r3 be approved for SPC-4 and SBC-3. Gerry Houlder seconded the motion. The motion passed on a vote of 23:2:12:8=45.

George Penokie reviewed 05-368r2 (Allow more commands through Write Exclusive reservations) [Elliott] a proposal recommended for inclusion in SPC-4, SBC-3, and SMC-3. George Penokie reviewed 06-036r1 (More Additional Element Status descriptors) [Elliott] a proposal recommended for inclusion in SES-2. George Penokie reviewed 06-002r2 (IEEE OUI/company\_id tutorial for SCSI) [Elliott] a proposal recommended for forwarding to IEEE.

Rob Elliott moved that 05-368r2 be approved for inclusion in SPC-4, SBC-3, and SMC-3; that 06-036r1 be approved for inclusion in SES-2; and that that 06-002r2 be approved for forwarding to IEEE. Ron Roberts seconded the motion. The motion passed on a vote of 34:0:4:7=45.

John Lohmeyer took an action item to forward 06-002r2 to the IEEE for posting as an OUI tutorial for SCSI.

George Penokie reviewed 05-085r9 (Style Guide) [Penokie] a proposal recommended for posting as the T10 Style Guide.

Bob Sheffield moved that 05-085r9 be approved for posting as the T10 Style Guide. Bob Nixon seconded the motion. The motion passed on a vote of 32:2:5:6=45.

### 10.6 Actions on Other Working Group Recommendations

No recommendations were brought to the committee from other working groups.

## 10.7 Project Proposal for Fibre Channel Protocol for SCSI - 4 (FCP-4) (06-032r1) [Peterson]

The FCP-4 study group prepared a project proposal for an FCP-4 project. However, the request to add this project proposal to the T10 agenda was not received two weeks prior to the T10 meeting, so T10 is not allowed to take action at this meeting. This is the only action for which the INCITS rules automatically invoke the two-week rule. This agenda item will be placed under old business for the March T10 meeting.

## 11. ISO/IEC

### 11.1 ISO/IEC Report [Robinson]

Gary Robinson presented the ISO/IEC report (06-035r2).

Rob Elliott moved that the IR be instructed to start the process of removing SSM-2 from the SC25 program of work. Gerry Houlder seconded the motion. The motion passed 26:0:12:7=45.

Gary Robinson took an action item to start the process of removing SSM-2 from the SC25 program of work.

### 11.2 ISO/IEC Business [Robinson]

#### 11.2.1 NWIP for FCP-3 (06-045) [Robinson]

Gary Robinson moved that T10 recommends that the SC25 TAG contribute an NWIP (06-045r0) to SC25 for FCP-3 as project 1.25.13.11.33, 14776-223, 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. Curtis Stevens seconded the motion. The motion passed on roll call vote of 33:0:8:4=45, the details of which were as follows:

<b>Organization</b>	<b>Voter</b>	<b>Vote</b>
Adaptec, Inc.	William Lynn	Abstain
AvagoTechnologies		(not present)
AMCC	Paul von Stamwitz	Yes
Amphenol Interconnect	Michael Wingard	Abstain
Broadcom Corp.	Ron Roberts	Yes
Brocade	Steven Wilson	Yes
Dallas Semiconductor	Steve Robalino	Abstain
Dell, Inc.	Kevin Marks	Yes
EMC Corp.	Gary S. Robinson	Yes
Emulex	Robert H. Nixon	Yes
ENDL	Ralph O. Weber	Yes
FCI	Douglas Wagner	Abstain
Foxconn Electronics	Elwood Parsons	Abstain
Fujitsu	Mike Fitzpatrick	Yes
General Dynamics	Nathan Hastad	Yes
Hewlett Packard Co.	Rob Elliott	Yes
Hitachi Cable Manchester	Mike Guzman	Abstain
Hitachi Global Storage Tech.	Dan Colegrove	Yes
IBM Corp.	George O. Penokie	Yes
Intel Corp.	Robert Sheffield	Yes
Iomega Corp.	Robert Payne	Abstain
Lexar Media, Inc.	John Geldman	Abstain
LSI Logic Corp.	John Lohmeyer	Yes
M-Systems		(not present)
Maxtor Corp.	Mark Evans	Yes
Microsoft Corp.	Emily Hill	Yes

Molex Inc.	Jay Neer	Yes
Nvidia Corp.		(not present)
Oracle	James Williams	Yes
Panasonic Technologies, Inc	Terence J. Nelson	Yes
Philips Electronics	William P. McFerrin	Yes
Pivot3, Inc.		(not present)
PMC-Sierra	Tim Symons	Yes
QLogic Corp.	Craig W. Carlson	Yes
Quantum Corp.	Paul Entzel	Yes
Seagate Technology	Gerald Houlder	Yes
Sierra Logic, Inc.	William Martin	Yes
Sun Microsystems, Inc.	Vit Novak	Yes
Symantec	Roger Cummings	Yes
Texas Instruments	Robert Kando	Yes
TycoElectronics	Ashlie Fan	Yes
Vitesse Semiconductor	David Allen	Yes
Western Digital	Curtis Stevens	Yes
Xiotech Corp.	Jeff Williams	Yes
Xyratex	Rich Ramos	Yes

This two-thirds roll call vote passed (33:0:8:4=45).

Gary Robinson took an action item to forward 06-045r0 to the SC25 TAG as an NWIP contribution for SPC-3 as project 1.25.13.11.33, 14776-223, to mark YES on each of the 6 questions, define Gary S Robinson as Project Editor in question 4, and normal standard development track is proposed in question 7.

## 12. Liaison Reports

### 12.1 T11 Liaison Report [Snively]

Although he could not attend, Bob Snively provided an electronic liaison report in T10/06-033 that was presented by Craig Carlson.

### 12.2 T13 Liaison Report [Colegrove]

Dan Colegrove provided an oral report to the committee on the activities of T13. The ATA-8 Architecture is in Letter Ballot comment resolution. Coordination with T10 regarding the TCG commands is in progress. A project to better describe how to emulate parallel interfaces for serial drives was approved as HBA-2. For details regarding T13 activities see [www.t13.org](http://www.t13.org).

### 12.3 SFF Industry Group [Allan]

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

### 12.4 IEEE 1394 [Johansson]

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

### 12.5 SCSI Trade Association (STA) [Czekalski]

Marty Czekalski presented an electronic report (06-069) on the activities of the SCSI Trade Association.

### 12.6 IETF SCSI over IP [Black/Robinson]

David Black reported that the SCSI MIB is in IETF Last Call. The Implementors' Guide is in progress. One topic being covered is the restriction that only the requested amount of data can be transferred by a REPORT LUNS command. Apparently, many iSCSI developers are not reading all the relevant standards carefully.

### 12.7 SNIA [open]

Roger Cummings noted that he is no longer acting as the SNIA liaison. Steve Wilson reported to the committee and provided an electronic report in 06-074r0.

### 12.8 Trusted Computing Group [Fitzpatrick]

Mike Fitzpatrick report that the storage working group has published a white paper on usage models. The storage working group has doubled their efforts to develop their core, locking, and credentials specifications.

## 13. Review of Action Items

- 619 Bob Sheffield will prepare SAT r08.
- 620 John Lohmeyer will conduct a letter ballot on forwarding SAT r08 to INCITS for first public review.
- 621 John Lohmeyer will forward 05-444r1 to INCITS for further processing as a new project proposal for SAT-2.
- 622 John Lohmeyer will forward 06-002r2 to the IEEE for posting as an OUI tutorial for SCSI.
- 623 Gary Robinson will forward 06-045r0 to the SC25 TAG as an NWIP contribution for SPC-3 as project 1.25.13.11.33, 14776-223, to mark YES on each of the 6 questions, define Gary S Robinson as Project Editor in question 4, and normal standard development track is proposed in question 7.
- 624 Gary Robinson will start the process of removing SSM-2 from the SC25 program of work.

## 14. Meeting Schedule

The next plenary meeting of T10 will be Thursday March 9, 2006 in Hilton Head Island, SC at the Hilton Ocean Front Resort (Reservations: 1-800-Hiltons) hosted by the SCSI Trade Association. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

March 2006 Meeting Map  
(2006/01/12 Version)

Monday 3/06	9	10	11	12	1	2	3	4	5	6	7	8	
	+=====+												
	ADI-2 WG / SMC-3 WG											(10)	
	+=====+												
	SAS Prot WG											(40)	
	+=====+												
Tuesday 3/07	9	10	11	12	1	2	3	4	5	6	7	8	
	+=====+												
	SAS Physical WG											(45)	
	+=====+												
	SAT WG											(40)	
	+=====+												
	STA Marcom *											(35)	
	+=====+												
	FCP-4 SG/ SSC-3 WG											(25)	
	+=====+												
	MMC WG											(25)	
	+=====+												
Wednesday 3/08	9	10	11	12	1	2	3	4	5	6	7	8	
	+=====+												
	CAP WG											(40)	
	+=====+												
	MMC WG											(25)	
	+=====+												
	SFF											(30)	
	+-----+												
	STA Plenary * / TCC*											(20)	
	+-----+												
Thursday 3/09	9	10	11	12	1	2	3	4	5	6	7	8	
	+=====+												
	T10 Plenary   SAT WG											(50/20)	
	+=====+												
Friday 3/10	9	10	11	12	1	2	3	4	5	6	7	8	
	No meetings planned for Friday.												

NOTES: The Thursday Key Mgmt SG was merged into the SSC-3 WG.  
The Thursday Lock SG was merged into the CAP WG.

/ 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:

Meeting	Date	Location / Contact
SAS PHY Calls	Biweekly beginning January 26	TBA via T10 reflector / Cox
SAS Prot Calls		TBA via T10 reflector / Elliott
SAS Supervisor Calls	Thursdays 9-11 PST	TBA via T10 reflector / Johnson
SSC-3 Key Mgmt Call	Wed Jan 25 noon - 2p PST	TBS via T10 reflector / Peterson
SSC-3 Key Mgmt Call	Wed Feb 8 noon - 2p PST	TBS via T10 reflector / Peterson
SAS Supervisor WG	Feb 16	Tentative Denver / Johnson
SSC-3 Key Mgmt Call	Wed Feb 20 noon - 2p PST	TBS via T10 reflector / Peterson
SAT WG	Feb 28	Tentative Denver DIA / Overby

## 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)

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

Activity	Contact	Telephone/Email
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MMC-4, MMC-5	Bill McFerrin	(325) 423-1560 billmc@tstar.net
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SPC-3, SAM-3, SPC-4, OSD-2	Ralph Weber	(214) 912-1373 roweber@acm.org
SSC-3, FCP-3	Dave Peterson	(763) 268-6139 david.peterson@mcdata.com
Other Activities	John Lohmeyer	(719) 533-7560 lohmeier@t10.org

The long-term T10 meeting week schedule is:

Date	Location	Host/Comments
Mar 6-10, 2006	Hilton Head, SC	SCSI Trade Association
May 8-12, 2006	Seattle, WA	Nvidia Corp.
Jul 10-14, 2006	Colorado Springs, CO	LSI Logic
Sep 11-15, 2006	Nashua, NH	Hitachi Cable Manchester
Nov 6-10, 2006	Las Vegas, NV	Hitachi GST
Approved dates for 2007:		
Jan 15-19, 2007	Orlando, FL	Symantec
Mar 12-16, 2007		
May 7-11, 2007		
Jul 9-13, 2007	Colorado Springs, CO	LSI Logic
Sep 17-21, 2007	TBD	PMC-Sierra
Nov 5-9, 2007		
Proposed dates for 2008:		
Jan 14-18, 2008		
Mar 10-14, 2008		
May 5-9, 2008		
Jul 14-18, 2008		
Sep 8-12, 2008		
Nov 3-7, 2008		

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

#### **14.1 Authorization of Working Group Meetings**

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

Kevin Marks moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved through the end of February 2006. Bill Martin 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 11:05 a.m. on Thursday January 12, 2006.



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

Name	S	Organization
Mr. William Lynn	P	Adaptec, Inc.
Mr. Paul von Stamwitz	P	AMCC
Mr. Michael Wingard	P	Amphenol Interconnect
Mr. Ron Roberts	A	Broadcom Corp.
Mr. Steven Wilson	A	Brocade Comm. Systems, Inc.
Mr. Steve Robalino	A	Dallas Semiconductor
Mr. Kevin Marks	P	Dell, Inc.
Mr. David Black	A	EMC Corp.
Mr. Gary S. Robinson	P	EMC Corp.
Mr. Robert H. Nixon	P	Emulex
Mr. Ralph O. Weber	P	ENDL Texas
Mr. Douglas Wagner	P	FCI
Mr. Elwood Parsons	P	Foxconn Electronics
Mr. Mike Fitzpatrick	P	Fujitsu
Mr. Nathan Hastad	P	General Dynamics
Mr. Michael Banther	V	Hewlett Packard Co.
Mr. Rob Elliott	P	Hewlett Packard Co.
Mr. Mike Guzman	A	Hitachi Cable Manchester
Mr. Dan Colegrove	P	Hitachi Global Storage Tech.
Mr. James Rockrohr	V	IBM
Mr. George O. Penokie	P	IBM Corp.
Mr. Robert Sheffield	P	Intel Corp.
Mr. Robert Payne	P	Iomega Corp.
Mr. John Geldman	P	Lexar Media, Inc.
Mr. John Lohmeyer	P	LSI Logic Corp.
Mr. David Geddes	AV	Marvell Semiconductor, Inc.
Mr. Martin Czekalski	A	Maxtor Corp.
Mr. Mark Evans	P	Maxtor Corp.
Mr. David Peterson	AV	McDATA
Ms. Emily Hill	P	Microsoft Corp.
Mr. Jay Neer	P	Molex Inc.
Mr. James Williams	P	Oracle
Dr. Terence J. Nelson	P	Panasonic Technologies, Inc
Mr. William P. McFerrin	P	Philips Electronics/CD Edge
Mr. Tim Symons	P	PMC-Sierra
Mr. Craig W. Carlson	A	QLogic Corp.
Mr. Paul Entzel	P	Quantum Corp.
Dr. Paul Suhler	A	Quantum Corp.
Mr. Alvin Cox	V	Seagate Technology
Mr. Gerald Houlder	P	Seagate Technology
Mr. William Martin	P	Sierra Logic, Inc.
Mr. Vit Novak	P	Sun Microsystems, Inc.
Mr. Roger Cummings	P	Symantec
Mr. Robert Kando	A	Texas Instruments
Ms. Ashlie Fan	P	TycoElectronics
Mr. Dan Gorenc	A	TycoElectronics
Mr. Ron Mathews	AV	UNISYS Corporation
Mr. David Allen	A	Vitesse Semiconductor
Mr. Curtis Stevens	P	Western Digital
Mr. Jeff Williams	P	Xiotech Corp.
Mr. Rich Ramos	P	Xyratex

51 People Present

Status Key: P - Principal

A,A# - Alternate  
AV - Advisory Member  
L - Liaison  
V - Visitor

**Enclosure(2) -- T10 Attendance Database**

Generated on 2006/01/16 at 10:07:31

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