

Accredited Standards Committee*

National Committee for Information Technology Standards (NCITS)

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Reply to: John Lohmeyer

To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: Minutes of T10 Plenary Meeting #36 -- March 9, 2000
Dallas, TX

Agenda

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- 10.2 Large addressing issues in SSC [Suhler]
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- 12. Liaison Reports
 - 12.1 T11 Liaison Report [Wanamaker]
 - 12.2 T13 Liaison Report [Milligan]
 - 12.3 SFF Industry Group [Allan]
 - 12.4 IEEE 1394 [Johansson]
 - 12.5 IEEE P1285 Status
 - 12.6 SCSI Trade Association (STA) [Jones/Aloisi]
 - 12.7 Internet Engineering Task Force (IETF) [Robinson]
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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 March 9, 2000. He thanked Paul Aloisi of Texas Instruments for hosting the meeting.

John said that NCITS Subgroup Membership forms and the T10 Mailing Subscription form were available from the head table. He said that people should use the NCITS forms to insure the NCITS Secretariat has the latest membership information. These forms should be mailed directly to the NCITS Secretariat.

As is customary, the people attending introduced themselves and a copy of the attendance list was circulated. Copies of the draft agenda and general information on T10 were made available to those attending.

2. Approval of Agenda

The draft agenda was approved with the following additions/changes:

- 8.16 SCSI Signal Modeling (SSM) {Project 1414-DT} [Aloisi]
- 10.1.1 Proposal for LVD Bus Length (00-170r1) [Evans]
- 10.1.2 Beyond 2TBytes (99-259r4) [Penokie]
- 10.1.3 READ/WRITE BUFFER Behavior During Domain Validation (99-306r2) [Elliott]
- 10.1.4 SPC-2 Echo Buffer Size (00-109r3) [Elliott]
- 10.1.5 Adding Reserved Bytes to EXTENDED COPY Parameter Data (00-165r0) [Weber]
- 10.2 Large addressing issues in SSC [Suhler]
- 10.2.1 Reject Public Review Comment on SSC [Suhler]
- 10.2.2 Support for Large Block Addresses in SSC-2 (00-135r2) [Suhler]
- 10.4 IEEE Usage of T10 Vendor ID List [Lohmeyer]
- 11.2.4 Potential Approval of SBP-2 [Milligan]
- 11.2.5 Approval of Working Group 4 Delegation [Milligan]
- 12.7 Internet Engineering Task Force (IETF) [Robinson]

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

- 10.1.6 Task Set Full Clarification (99-343) [Snively]
- 10.5 Call for Volunteers to Chair T10
- 10.6 T10 Style Guide and Templates

3. Attendance and Membership

The membership requirements were reviewed. NCITS 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 apply for membership and begin voting at anytime following adjournment of the first meeting. Typically, the individual applies for membership and starts casting votes at the second plenary meeting. Working group and other ad hoc meetings do not count toward attendance requirements.

The option that allows a person attending their first meeting to become a voting member immediately following that meeting, provided their NCITS fees have been paid, permits a new member to vote on letter ballots issued between his/her first and second meetings. Unfortunately, this option also means that the new organization is immediately in attendance jeopardy.

To maintain membership, organizations must pay the NCITS Service Fee (\$300). The ANSI International Program Fee (also \$300) is billed at the same time.

John briefly discussed the mailing fees. Complete pricing information is contained in the 2000 membership form (available at ftp://ftp.t10.org/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.

At the January 2000 meeting, Iomega and UNISYS had been in attendance jeopardy. Consideration of a motion to continue their membership in spite of their failure to attend was deferred to this meeting. The action of deferring consideration of the motion meant that their memberships were terminated at the January meeting. The Chair contacted NCITS regarding whether the deferred motion was rendered moot by this action or whether these memberships would be re-activated at the March meeting should the motion now pass. The NCITS Secretariat

subsequently ruled that because of the undue financial hardship involved in attending a meeting outside the U.S., the deferred motion is in order. Should these organizations be present at the March meeting and should the deferred motion pass, then they are to be treated as if their memberships were not terminated in Australia.

John verified that both Iomega and UNISYS are present at this meeting. John stated that the motion from January was now on the floor. Gene Milligan moved to amend the motion to read (in total) "Moved that in view of the special circumstances T10 requests its Chair to suspend the membership of the T10 members in jeopardy and not present at the January meeting and to defer the rollcall of members in jeopardy and not present at the January meeting until the March meeting." Ed Gardner seconded the motion to amend. The motion to amend passed on a vote of 22:2:1:14=39. The amended motion passed on a vote of 25:4:3:7=39.

The Chair said he had sent letters to 20 people from 11 organizations informing them that their membership was in jeopardy due to non-attendance (see 00-003r0) and that their membership would be terminated if they did not attend this meeting. Iomega and UNISYS were added to the list of organizations in jeopardy as a result of the motion just passed. The following organizations were in attendance jeopardy:

Amphenol Interconnect
BREA Technologies, Inc.
CMD Technology
Dell Computer
General Dynamics
Hewlett Packard Co.
Hitachi Cable Manchester, Inc.
Hitachi Storage Products
Honda Connectors
Iomega
Linfinity Micro
Toshiba America Elec. Comp.
UNISYS

All of these organizations were present except:

Hitachi Storage Products

The organizations in attendance jeopardy were terminated due to lack of attendance (i.e., the principal member was changed to observer status and the first alternate member, if any, was dropped; additional alternates, if any, were changed to observers).

No organizations requested new (or reinstated) membership.

The T10 membership during the meeting was 40 organizations up from 39 organizations following the last meeting. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current T10 membership list.

4. Approval of Minutes - January '00 Meeting - Surfers Paradise, Australia (T10/00-122r1)

The minutes were approved as written.

5. Document Distribution

Members who have any problems with their mailing subscription should deal directly with Monica Vago (mvago@itic.org) (202) 626-5741.

John Lohmeyer requested that all documents for the next mailing be in his hands in electronic format by 10:30 a.m. on Thursday March 16, 2000. 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.

The electronic copies can be sent directly to John by email (at lohmeier@t10.org), or they can be transferred by ftp protocol to ftp.t10.org and placed in the /incoming directory. In the latter case, please also send email to John informing him of the file name and location of the file.

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 email to majordomo@t10.org with the line 'subscribe t10' in the message body.

The NCITS Secretariat maintains a World Wide Web page at <http://www.ncits.org/>. LSI Logic maintains a World Wide Web page on behalf of T10 on a server provided by the SCSI Trade Association at:

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

The current document register is enclosure (3). The T10 document register is also available at:

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

6. Call for Patents

This is a regular agenda item to identify any potential patent issues with developing standards and technical reports.

A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge. This document is also on the WWW at http://www.ncits.org/help/ansi_sdo.html. Section 1.2.11 contains the ANSI patent policy. Amy Marasco manages patent issues for ANSI and can be contacted at amarasco@ansi.org or 212-642-4954.

A call for patents was made. There were no responses.

7. Review of Old Action Items

- 338) Larry Lamers will request minutes for the June 1999 CAM-3 review meeting from Bill Dallas. *Complete*
- 362) Ralph Weber will ensure that the policy of requiring a two-thirds vote to approve the scheduling of a plenary meeting outside the 48 contiguous United States gets recorded in a T10 policies document. *Carryover*
- 363) Larry Lamers will provide the SPI-3 editor with a file containing the electronic image used in the SPI dedication (*Unable to Complete*) or John Lohmeyer will contact Dave Deming to obtain the file. *Carryover*

- 364) John Lohmeyer will notify the T10 reflector that March 2000 meeting will consider withdrawing CAM-3. *Complete.*
- 365) John Lohmeyer will add an item to the March 2000 agenda to consider withdrawing CAM-3. *Complete.*
- 366) John Lohmeyer will add an item to the March 2000 agenda to consider withdrawing MMC at ISO/IEC. *Complete.*
- 367) George Penokie will provide SPI-3 revision 13 and 13a to the T10 chair. *Complete.*
- 368) John Lohmeyer will forward SPI-3 revision 13a to NCITS for processing toward first public review. *Complete.*
- 369) John Lohmeyer will add an item to the March 2000 agenda to discuss large addressing issues in SSC. *Complete.*
- 370) Ralph Weber will create an SPC-2 version descriptor for SPI-3 revision 13a. *Carryover and 13b*
- 371) Ralph Weber will assign SPC-2 standard code values to the four projects whose approval was announced at this meeting. *Complete*

8. Project Status Reports

8.1 Project Status Summary and NCITS Liaison [Lohmeyer]

John Lohmeyer said that the current T10 project status summary was included in the T10 Information Packages distributed prior to the meeting and will be included in the mailing as usual. John announced that ANSI had withdrawn SCC, SPI, SPI Amendment #1, SIP, and Fast-20 on January 19, 2000 as T10 had requested.

8.2 SCSI Common Access Method - 3 (CAM-3) Status {Project 990-D} [Dallas]

John Lohmeyer reported that Bill Dallas has been assigned to another project and no longer can work on CAM-3. He noted that no one has responded a request for an editor for CAM-3. Additional action was taken on CAM-3 under item 10.3.

8.3 SCSI-3 Stream Commands (SSC) Status {Project 997-D} [Peterson]

John Lohmeyer reported that the public review for SSC closes on March 26. Additional action on SSC topics was taken under item 10.2.

8.4 SCSI Fibre Channel Protocol - 2 (FCP-2) {Project 1144-D} [Snively]

Bob Snively noted that meetings earlier in the week resolved about a quarter of the technical comments (minutes in 00-182 and 00-156). The total comments received were about 1,300. A meeting Wednesday afternoon 5 April (the next T11 week) will continue reviewing the comments. Further comments review will occur at meetings held on Monday 15 May meeting in the next T10 meeting week. Bob was unwilling to predict when the comments resolution process will be completed.

8.5 SCSI Architecture Model - 2 (SAM-2) {Project 1157-D} [Weber]

Ralph Weber reported that SAM-2 revision 12 remains the current revision. The working group is discussing the model for devices with multiple ports and agreement on a change proposal is possible at the May meetings (minutes in 00-156). Also, the proposal to add a COMMAND CLEARED status will be written as a formal change proposal for review at the May meetings.

8.6 Multimedia Command Set - 2 (MMC-2) Status {Project 1228-D} [McFerrin]

John Lohmeyer reported that the NCITS letter ballot on MMC-2 resulted in two negative votes. The votes arose from a reference to "DVD+RW" that was described as an "obsolete reference" that Hitachi suggested should be changed to "+RW". John Lohmeyer reported on the following recommendation from the MMC Working Group:

By a vote of 5:1:0 the MMC working group recommends that T10 respectfully decline to make any changes in the DVD+RW references in BSR NCITS.333-200x (MMC-2). The nomenclature for disks of the format known as +RW must contain the prefix, "DVD" in order to avoid confusion about the purpose of the format within this standard.

Han Zou explained that the DVD+RW reference is obsolete and expressed concern that the MMC Working Group recommendation fails to address the obsolete nature of the reference. He further noted that the description in the current MMC-2 is for a 3.0 GB DVD+RW, which has become an obsolete concept.

Gary Robinson noted that changing the document both delays processing the standard and perhaps substantially so because the references are not fully established. He further suggested that the ISO processing of MMC-2 would be a more appropriate forum for resolving the references issues.

Bill McFerrin moved that T10 accept the MMC working group recommendation that the nomenclature for discs of the format known as +RW must contain the prefix, "DVD", in order to avoid confusion about the purpose of the format within this standard and that T10 recommend that BSR NCITS.333-200x (MMC-2) not be changed as suggested by the NCITS negatives. Mark Evans seconded the motion.

The group discussed the relationship between ANSI standards and other non-accredited standards.

On a roll call vote, the motion passed on a vote of 23:2:6:9=40. The details of the vote are as follows:

Organization	Voter	Yes	No	Abs	NP
Adaptec, Inc.	Mr. Lawrence J. Lamers	1			
Advansys					1
AMP, Inc.	Mr. Charles Brill	1			
Amphenol Interconnect	Mr. Bill Mable	1			
Ancot Corp.					1
Berg Electronics	Mr. Douglas Wagner	1			
BREA Technologies, Inc.	Mr. Bill Galloway	1			
Circuit Assembly Corp.	Mr. Dennis Lang	1			
CMD Technology	Mr. Edward Haske	1			
Compaq Computer Corp.	Mr. Robert C. Elliott	1			
Crossroads Systems, Inc.	Mr. Neil Wanamaker	1			
Dallas Semiconductor					1
Dell Computer	Mr. William Dawkins			1	
ENDL Texas	Mr. Ralph O. Weber	1			
Fujitsu	Mr. Eugene Lew			1	
General Dynamics	Mr. Nathan Hastad	1			
Hewlett Packard Co.	Mr. Steve Jerman	1			
Hitachi Cable Manchester, Inc	Mr. Zane Daggett			1	
Honda Connectors					1
IBM Corp.	Mr. George O. Penokie			1	
Iomega Corp.	Mr. Tim Bradshaw	1			
KnowledgeTek, Inc.					1
Linfinity Micro	Mr. Louis Grantham	1			
LSI Logic Corp.	Mr. John Lohmeyer			1	IV
Madison Cable Corp.					1
Maxtor Corp.	Mr. Pete McLean	1			
Molex Inc.	Mr. Jay Neer	1			
NSTOR					1
Ophidian Designs	Mr. Edward A. Gardner	1			IV
Panasonic Technologies, Inc	Mr. Han Zou		1		
Philips Electronics	Mr. William P. McFerrin	1			
QLogic Corp.					1

Quantum Corp.	Mr. Mark Evans	1				
Seagate Technology	Mr. Gene Milligan		1		IV	
Storage Technology Corp.	Mr. Erich Oetting	1				
Sun Microsystems Computer Co	Mr. Robert N. Snively	1				
Texas Instruments	Mr. Paul D. Aloisi	1				
Toshiba America Elec. Comp.	Mr. Tasuku Kasebayashi		1			
UNISYS Corporation	Mr. Kenneth J. Hallam	1				
Western Digital Corporation						1
	Totals:	23	2	6	9	= 40

IV - Individual Vote

John Lohmeyer, George Penokie, Gene Milligan, and Zane Daggett stated that they cast votes of abstain based on the fact that they were not materially affected by the outcome of the vote. Bill Dawkins and Tomas Kulesza stated that they cast votes of abstain based on lack of expertise regarding the subject.

John Lohmeyer took an action item to communicate to NCITS the T10 recommendation that BSR NCITS.333-200x not be changed.

8.7 SCSI Primary Commands - 2 (SPC-2) Status {Project 1236-D} [Weber]

Ralph Weber reported that SPC-2 revision 16 containing the changes approved by this meeting will be ready for the next mailing. He announced that he would be requesting a forwarding letter ballot following the May meetings and that he would lobby for placing major proposals such as Access Controls in SPC-3 at the May meetings.

8.8 Reduced Block Commands (RBC) {Project 1240-D} [McLean]

Pete McLean reported that RBC has passed public review with no comments and is ready to go to NCITS letter ballot and NCITS approval is expected in April.

8.9 SCSI Parallel Interface - 3 (SPI-3) {Project 1302-D} [Penokie]

George Penokie reported that SPI-3 revision 13b was prepared to resolve concerns expressed by NCITS.

Gene Milligan moved that T10 approve the changes in SPI-3 revision 13b as not substantive. Neil Wanamaker seconded the motion. Larry Lamers requested that consideration of the motion be deferred based on SPI-3 revision 13b not being available two weeks prior to the meeting.

Dal Allan expressed concerns about the SPI-3 revision 13b changes moving the document away from the ISO style guide. Dal Allan moved that the T10 chair be instructed to initiate an investigation concerning why T10 was requested to prepare SPI-3 in a format that appears to conflict with the ISO/IEC JTC1 Style Guide (e.g., removal of the document title at the foot of each page) and report to the next meeting. Gene Milligan seconded the motion. The motion passed 23:0:2:15=40.

John Lohmeyer took an action item to initiate an investigation concerning why T10 was requested to prepare SPI-3 in a format that appears to conflict with the ISO/IEC JTC1 Style Guide (e.g., removal of the document title at the foot of each page) and report to the next meeting.

Larry Lamers asked that the T10 web site pointer be changed to point to SPI-3 revision 13a until 13b receives T10 approval. John said that the change would take effect the next time he updates the web site.

8.10 MultiMedia Command Set - 3 (MMC-3) {Project 1363-D} [McFerrin]

Bill McFerrin reported that Ron Roberts brought in a new revision of MMC-3 that was reviewed in the working group meeting (minutes in 00-177). Bill announced the possibility of holding an MMC-3 review meeting outside the T10 meeting week, and asked that one such meeting be authorized between April 15 and the May meeting week.

8.11 Reduced MultiMedia Command Set (RMC) {Project 1364-D} [McFerrin]

Bill McFerrin reported that the RMC draft has not been revised since the last meeting. He stated that the project leader has been asked to determine whether continued work is necessary on RMC.

8.12 SCSI Parallel Interface - 4 (SPI-4) {Project 1365-D} [Penokie]

George Penokie reported on the activities of the SPI-4 Working Group meetings (minutes in 00-134 and 00-155). He stated that the first revision of SPI-4 is planned in the middle of May. He stated that the performance goals of SPI-4 appear achievable but details of the driver/receiver technology are still being negotiated.

George announced that the next meeting of the SPI-4 Working Group meeting will be on March 27 and 28 in Milpitas, CA. He asked that everyone be aware that both physical and protocol topics will be discussed at the meeting and stated that protocol topics (e.g., margin control and flow control) will be discussed in the afternoon of the second day. George announced that another SPI-4 Working Group meeting will be on April 26 and 27 in Colorado Springs, CO.

8.13 SCSI Domain Validation Technical Report (SDV) {Project 1378-DT} [Lamers]

Larry Lamers reported that the first revision of the draft technical report is on the T10 web site and requested time in future working group meetings to review it.

8.14 SCSI on Scheduled Transfer (SST) {Project 1380-D} [Woelz]

John Lohmeyer reported that Don Woelz requested authorization for an SST working group meetings held on the Wednesday of the T11 meeting weeks in April and June.

8.15 SCSI Medium Changer Commands - 2 (SMC-2) {Project 1383-D} [Oetting]

Erich Oetting reported that a first revision SMC-2 should be available for the mailing. He agreed to incorporate the SMC-2 material from Annex B of SPC-2 and noted that other SMC corrections will appear in the first SMC-2 revision.

8.16 SCSI Signal Modeling (SSM) {Project 1414-DT} [Aloisi]

Paul Aloisi reported on the activities of the Signal Modeling Working Group (minutes in 00-146r1 and 00-163r0). He noted that the T10 web site will be used to coordinate the activities of the working group.

Dean Wallace was given an action item to lead the SSM working group in preparation of a press release regarding the usage of the T10 web site that John Lohmeyer can forward to NCITS for distribution. John Lohmeyer took an item to forward the SSM press release to NCITS.

At the request of Bill Ham, Zane Daggett was given an action item to prepare a project proposal for the SCSI Passive Interconnect Performance technical report.

8.17 SCSI VI Protocol (SVP) {Project 1415-D} [Gardner]

Ed Gardner reported on the activities of the CAP working group regarding document 00-172r0 (minutes in 00-156). He stated that a first revision of SVP will be available more than two weeks before the next meeting.

8.18 SCSI Primary Commands - 3 (SPC-3) {Project 1416-D} [Weber]

Ralph Weber reported that a first draft of SPC-3 will be available as soon as changes are approved for inclusion in it, which might be as early as following the May meeting.

8.19 SCSI Block Commands - 2 (SBC-2) {Project 1417-D} [Milligan]

Gene Milligan reviewed the proposals known to be approved for SBC-2 and the schedule for SBC-2 (00-187r0) and the activities of the CAP working group (minutes in 00-156). There were no objections to the schedule for SBC-2 proposed in 00-187, which included new proposal cut off in November 2000, stabilization in March 2001, and letter ballot in May 2001.

9. Old Business

9.1 Report on T10 Procedures Study Group Meeting [Lohmeyer]

John reported that the T10 procedures study group did not hold a meeting this week. He then briefly described the activities of the January study group (see description in January plenary minutes, 00-122).

9.2 Project proposal for object-based storage devices command set (OSD) (99-312r0) [Milligan]

Consideration of the following motion was deferred from the January '00 meeting:

“that the OSD project proposal be forwarded to NCITS for processing.”

The motion passed on a vote of 23:1:1:15=40. Bob Snively stated that his no vote based on the belief that project is a solution is search of a problem. Bill Dawkins stated that his abstention was based on lack of expertise regarding the subject.

John Lohmeyer took an action item to forward the OSD project proposal to NCITS within 72 hours. Ralph Weber took an action item to add OSD to the device types and version descriptors in SPC-2.

Gene Milligan reported that the next revision of the draft OSD standard will be available before the May meeting.

9.3 Editing RBC for ISO/IEC (99-284r0) [Roberts]

John Lohmeyer reported that during the January '00 meeting he had incorrectly reported the amount of the bid from Don Tolmie on editing RBC for ISO/IEC. The Tolmie bid is now \$3,500. The committee expressed no interest in the development of an ISO/IEC version of RBC.

John Lohmeyer took an action item to send letters to Ron Roberts and Don Tolmie thanking them for bidding on the conversion RBC to ISO/IEC and informing them that T10 has decided not to pursue the project.

10. New Business

10.1 Actions on Working Group Recommendations

10.1.1 Proposal for LVD Bus Length (00-170r1) [Evans]

Mark Evans moved that 00-170r1 (Proposal for LVD Bus Length) be accepted for inclusion in SPI-4. Gene Milligan seconded the motion. The motion passed on a vote of 21:0:2:17=40.

10.1.2 Beyond 2TBytes (99-259r4) [Penokie]

George Penokie moved that 99-259r4 (Beyond 2TBytes) be accepted for inclusion in SPC-2 and SBC-2. Gene Milligan seconded the motion. The motion passed on a vote of 22:0:0:18=40.

10.1.3 READ/WRITE BUFFER Behavior During Domain Validation (99-306r2) [Elliott]

Rob Elliott moved that 99-306r2 (READ/WRITE BUFFER Behavior During Domain Validation) be accepted for inclusion in SPC-2. Larry Lamers seconded the motion. The motion passed on a vote of 24:0:0:16=40.

10.1.4 SPC-2 Echo Buffer Size (00-109r3) [Elliott]

Rob Elliott moved that 00-109r3 (SPC-2 Echo Buffer Size) be accepted for inclusion in SPC-2. Larry Lamers seconded the motion. The motion passed on a vote of 24:0:0:16=40.

10.1.5 Adding Reserved Bytes to EXTENDED COPY Parameter Data (00-165r0) [Weber]

Ralph Weber moved that 00-165r0 (Adding Reserved Bytes to EXTENDED COPY Parameter Data) in SPC-2. Neil Wanamaker seconded the motion. The motion passed on a vote of 22:0:2:16=40.

10.1.6 Task Set Full Clarification (99-343) [Snively]

Bob Snively explained the contents of 99-343r1 to the committee. Bob Snively moved that 99-343r1 (Task Set Full Clarification) be included in SAM-2. Gene Milligan seconded the motion. The motion passed on a vote of 13:0:4:23=40.

10.2 Large addressing issues in SSC [Suhler]**10.2.1 Reject Public Review Comment on SSC [Suhler]**

Paul Suhler moved that the public review comment on SSC be rejected and that the content of the of the comment be considered for a future version of the SSC standard under proposal T10/00-161. Erich Oetting seconded the motion. On a roll call vote, the motion passed 25:0:3:12=40. The details of the roll call vote are as follows:

Organization	Voter	Yes	No	Abs	NP
Adaptec, Inc.	Mr. Lawrence J. Lamers	1			
Advansys					1
AMP, Inc.	Mr. Charles Brill	1			
Amphenol Interconnect					1
Ancot Corp.					1
Berg Electronics					1
BREA Technologies, Inc.	Mr. Bill Galloway	1			
Circuit Assembly Corp.	Mr. Dennis Lang			1	
CMD Technology	Mr. Edward Haske	1			
Compaq Computer Corp.	Mr. Robert C. Elliott	1			
Crossroads Systems, Inc.	Mr. Neil Wanamaker	1			
Dallas Semiconductor	Mr. Charles Tashbook	1			
Dell Computer	Mr. William Dawkins			1	
ENDL Texas	Mr. Ralph O. Weber	1			
Fujitsu	Mr. Eugene Lew	1			
General Dynamics	Mr. Nathan Hastad	1			
Hewlett Packard Co.	Mr. Steve Jerman	1			
Hitachi Cable Manchester, Inc	Mr. Zane Daggett	1			
Honda Connectors					1
IBM Corp.	Mr. George O. Penokie	1			

Iomega Corp.	Mr. Tim Bradshaw	1				
KnowledgeTek, Inc.					1	
Linfinity Micro	Mr. Louis Grantham	1				
LSI Logic Corp.	Mr. John Lohmeyer	1				
Madison Cable Corp.	Ms. Jie Fan	1				
Maxtor Corp.	Mr. Pete McLean	1				
Molex Inc.					1	
NSTOR					1	
Ophidian Designs					1	
Panasonic Technologies, Inc	Mr. Han Zou		1			
Philips Electronics	Mr. William P. McFerrin	1				
QLogic Corp.					1	
Quantum Corp.	Mr. Mark Evans	1				
Seagate Technology	Mr. Gene Milligan	1				
Storage Technology Corp.	Mr. Erich Oetting	1				
Sun Microsystems Computer Co	Mr. Robert N. Snively	1				
Texas Instruments	Mr. Paul D. Aloisi	1				
Toshiba America Elec. Comp.	Mr. Tasuku Kasebayashi	1				
UNISYS Corporation					1	
Western Digital Corporation					1	
	Totals:	25	0	3	12	= 40

IV - Individual Vote

Han Zou, Bill Dawkins, and Dennis Lang stated that they abstained based on a lack of expertise regarding the subject.

John Lohmeyer took an action item to thank Paul Suhler for his public review comment on SSC and inform Paul of his right to appeal the T10 decision.

10.2.2 Support for Large Block Addresses in SSC-2 (00-135r2) [Suhler]

Gene Milligan moved that 00-135r2 (Support for Large Block Addresses in SSC-2) be accepted for inclusion in SSC-2. Erich Oetting seconded the motion. The motion passed on a vote of 28:0:0:12=40.

10.3 Consideration of withdrawing the CAM-3 project 990-D

John Lohmeyer reported that the CAM-3 project has no editor and no one has volunteered to edit CAM-3 in response to an e-mail request and that no progress has been made on the CAM-3 project for months. Neil Wanamaker moved that T10 recommend to NCITS that project 990-D (CAM-3) be withdrawn. Bob Snively seconded the motion. The motion passed on a vote of 25:0:0:15=40.

John Lohmeyer took an action item to notify NCITS that T10 recommends withdrawing project 990-D (CAM-3).

10.4 IEEE Usage of T10 Vendor ID List [Lohmeyer]

John Lohmeyer reported on a request from an IEEE group to include the T10 vendor ID list in a list maintained by that organization. Discussion of the request revealed that not enough was known about the situation to make an informed response. Bob Snively volunteered to take an action item to discuss the use of the T10 vendor ID list by IEEE p1244 with the IEEE group.

10.5 Call for Volunteers to Chair T10

John Lohmeyer reported that NCITS is seeking volunteers to chair T10 for the next three years (see 00-179). He noted that the call closes May 30, 2000. In response to questions from the floor, John stated that he had not yet found time to discuss re-applying for the position with his management.

10.6 T10 Style Guide and Templates

Gene Milligan reported that the T13 Style Guide, Part three of the ISO/IEC Directives (style guide) ISO/IEC Word template files, and IEC Word template files had been forwarded to the T10 chair. He noted that the goal of this effort was creation of a T10 style guide and templates. John and Gene discussed the particulars of how the files could be made available to committee members for consideration. George Penokie and Mark Evans volunteered review the style materials.

John agreed keep this agenda item on the May meeting agenda, titled "T10 Style Guide and Templates Project Report". Gene agreed to forward the files to those interested in reviewing them.

11. ISO/IEC

11.1 ISO/IEC Report [Milligan]

Gene Milligan presented the ISO/IEC report; the electronic version is in 00-180.

Gene commended George Penokie for setting a world's record for promptness in resolving ISO/IEC letter ballot comments.

John Lohmeyer reported on the activities regarding the Optical Memory Card ISO/IEC standard, which involved two accelerated T10 letter ballots (documented in 00-009, 00-010, 00-011, and 00-012).

11.2 ISO/IEC Business [Milligan]

11.2.1 Forwarding SSC to ISO/IEC [Milligan]

Consideration of the following motion was deferred from the January '00 meeting:

“T10 forward SSC to ISO/IEC for processing.”

Gene Milligan moved to amend the motion to read: “T10 recommends submission of an NWI proposal and simultaneous CD letter ballot for both SSC revision 22 (or latest revision) and SPI-3 revision 13b”. In the absence of any objections, the motion to amend was approved unanimously.

The amended motion passed on a vote of 22:0:0:18=40. Details of the roll call vote were as follows:

Organization	Voter	Yes	No	Abs	NP
Adaptec, Inc.	Mr. Lawrence J. Lamers	1			
Advansys					1
AMP, Inc.					1
Amphenol Interconnect					1
Ancot Corp.					1
Berg Electronics					1
BREA Technologies, Inc.	Mr. Bill Galloway	1			
Circuit Assembly Corp.					1
CMD Technology	Mr. Edward Haske	1			
Compaq Computer Corp.	Dr. William Ham	1			
Crossroads Systems, Inc.	Mr. Neil Wanamaker	1			
Dallas Semiconductor	Mr. Charles Tashbook	1			
Dell Computer	Mr. William Dawkins	1			
ENDL Texas	Mr. Ralph O. Weber	1			IV
Fujitsu	Mr. Eugene Lew	1			

General Dynamics	Mr. Nathan Hastad	1				
Hewlett Packard Co.						1
Hitachi Cable Manchester, Inc						1
Honda Connectors						1
IBM Corp.	Mr. George O. Penokie	1				
Iomega Corp.						1
KnowledgeTek, Inc.						1
Linfinity Micro	Mr. Louis Grantham	1				
LSI Logic Corp.	Mr. John Lohmeyer	1				
Madison Cable Corp.						1
Maxtor Corp.	Mr. Pete McLean	1				
Molex Inc.						1
NSTOR						1
Ophidian Designs						1
Panasonic Technologies, Inc	Mr. Han Zou	1				
Philips Electronics	Mr. William P. McFerrin	1				
QLogic Corp.						1
Quantum Corp.	Mr. Mark Evans	1				
Seagate Technology	Mr. Gene Milligan	1				
Storage Technology Corp.	Mr. Erich Oetting	1				
Sun Microsystems Computer Co	Mr. Robert N. Snively	1				
Texas Instruments	Mr. Paul D. Aloisi	1				
Toshiba America Elec. Comp.	Mr. Tasuku Kasebayashi	1				
UNISYS Corporation						1
Western Digital Corporation						1
	Totals:	22	0	0	18	= 40

IV - Individual Vote

Gene Milligan took an action item to submit a NWI proposal and request for simultaneous CD letter ballot for both SSC revision 22 (or latest revision) and SPI-3 revision 13b

11.2.2 Forwarding SPI-3 to ISO/IEC [Milligan]

Consideration of the following motion was deferred from the January '00 meeting:

“that T10 submit a NWIP for SPI-3 with a contribution of SPI-3 revision 13a for simultaneous CD.”

Consideration of this motion was covered by the amended motion in item 11.2.1.

11.2.3 Withdrawing ISO/IEC project on MMC [McFerrin]

Bill McFerrin reported that people are already referencing MMC-2 and MMC is very out of date. There is no value in taking MMC to ISO/IEC. Bill McFerrin moved that T10 recommend the withdrawal of MMC from ISO/IEC processing. Mark Evans seconded the motion.

The motion passed on a vote of 20:1:2:17=40. Details of the roll call vote were as follows:

Organization	Voter	Yes	No	Abs	NP
Adaptec, Inc.	Mr. Lawrence J. Lamers	1			
Advansys					1
AMP, Inc.					1
Amphenol Interconnect					1
Ancot Corp.					1
Berg Electronics					1
BREA Technologies, Inc.	Mr. Bill Galloway	1			
Circuit Assembly Corp.					1

CMD Technology	Mr. Edward Haske	1			
Compaq Computer Corp.	Mr. Robert Elliott	1			
Crossroads Systems, Inc.	Mr. Neil Wanamaker	1			
Dallas Semiconductor	Mr. Charles Tashbook	1			
Dell Computer	Mr. William Dawkins		1		
ENDL Texas	Mr. Ralph O. Weber	1			IV
Fujitsu	Mr. Eugene Lew	1			
General Dynamics	Mr. Nathan Hastad	1			
Hewlett Packard Co.					1
Hitachi Cable Manchester, Inc					1
Honda Connectors					1
IBM Corp.	Mr. George O. Penokie	1			
Iomega Corp.					1
KnowledgeTek, Inc.					1
Linfinity Micro	Mr. Louis Grantham	1			
LSI Logic Corp.	Mr. John Lohmeyer	1			
Madison Cable Corp.					1
Maxtor Corp.	Mr. Pete McLean	1			
Molex Inc.					1
NSTOR					1
Ophidian Designs					1
Panasonic Technologies, Inc	Mr. Han Zou			1	
Philips Electronics	Mr. William P. McFerrin	1			
QLogic Corp.	Mr. Skip Jones	1			
Quantum Corp.	Mr. Mark Evans	1			
Seagate Technology	Mr. Gene Milligan		1		IV
Storage Technology Corp.	Mr. Erich Oetting	1			
Sun Microsystems Computer Co	Mr. Robert N. Snively	1			
Texas Instruments	Mr. Paul D. Aloisi	1			
Toshiba America Elec. Comp.	Mr. Tasuku Kasebayashi	1			
UNISYS Corporation					1
Western Digital Corporation					1
	Totals:	20	1	2	17 = 40

IV - Individual Vote

Gene Milligan stated that his no vote was because the T10 recommendation was inconsistent its action on MMC at ANSI, where there is no recommendation to withdraw. Han Zou stated that his abstention was based on lack of knowledge regarding the consequences of the vote. Bill Dawkins stated that his abstention was based on lack of expertise regarding the subject.

Gene Milligan took an action item to notify the JTC 1 TAG of the T10 recommendation to withdraw MMC from ISO/IEC processing.

11.2.4 Potential Approval of SBP-2 [Milligan]

John Lohmeyer agreed to maintain this item on the May agenda for the purpose of conducting a roll call vote on ISO/IEC fast track processing of SBP-2.

11.2.5 Approval of Working Group 4 Delegation [Milligan]

Gene Milligan asked if any T10 members wished to be considered for the WG 4 Delegation. He then stated that the delegation would be Kumar Malavalli and Gene Milligan. In the absence of any objections, the committee unanimously approved the delegation.

12. Liaison Reports

12.1 T11 Liaison Report [Wanamaker]

Neil Wanamaker reported on the activities of T11 and provided an electronic report that is available in 00-176.

12.2 T13 Liaison Report [Milligan]

Gene Milligan reported on the February meeting of T13 in Placerville, CA. He noted that the ATA/ATAPI video work and the proposed definition of partition tables may have accounted for a larger than usual attendance. ATA/ATAPI-5 comments resolution was completed. Review of version 3 of the enhanced BIOS specification was completed and a letter ballot will be held soon. A special working group meeting on video will be held on March 21 and 22 in Redmond and the April T13 meeting will be held in Boulder, CO on April 18 through 21. More information is available at www.t13.org.

12.3 SFF Industry Group [Allan]

Dal Allan provided the following electronic report:

The issue over patents with HSSDC has been resolved by replacing the figures in the specification which do not identify the patented feature. A letter stating that nothing in the patent is required to implement HSSDC will be provided by FCI.

Effort has begun on the backplane project to analyze 100-pin SCA-2 to determine whether it can meet the characteristics required of dual port 12 Gbs performance. The initial results are optimistic.

The drawing provided for current generation 5 1/4" CD ROMs which was used to update SFF-8551 will be redrawn with superfluous features removed and some dimensions identified as max instead of with tolerances.

Rev 4.0 of INF-8090 for ATAPI DVD has been completed and is ready for distribution in the next mailing.

The optical testing SSWG is proceeding well with identification of a large variety of factors which affect the testing process and fixtures as well as the components under test.

12.4 IEEE 1394 [Johansson]

Larry Lamers reported that the second ballot on p1394a closed recently. Revision 1 of 1394b is available. The 1394 trade association is voting on the device bay proposal.

12.5 IEEE P1285 Status

Bob Snively offered to verify that p1285 is still "alive".

12.6 SCSI Trade Association (STA) [Jones/Aloisi]

Paul Aloisi reported on the activities of STA and provided an electronic report that can be found in 00-183.

12.7 Internet Engineering Task Force (IETF) [Robinson]

Gary Robinson reported on the activities of the IETF directed toward transporting SCSI over IP (Internet Protocol). He recommended that T10 work to develop a liaison with the IETF group that is working on a SCSI definition.

Gary asked that the next meeting include a new business agenda item to identify a liaison to the project.

13. Review of Action Items

- 362) Ralph Weber will ensure that the policy of requiring a two-thirds vote to approve the scheduling of a plenary meeting outside the 48 contiguous United States gets recorded in a T10 policies document.
- 363) John Lohmeyer will contact Dave Deming to obtain the file containing the electronic image used in the SPI dedication for use in SPI-3.
- 370) Ralph Weber will create an SPC-2 version descriptors for SPI-3 revisions 13a and 13b.
- 372) Bob Snively will generate a correction proposal to T11 for FC-FS table 79 that currently contains incorrect definitions for the reason codes for LS_RJT.
- 373) George Penokie will build a model that shows the impact of the times required for training on packetized performance.
- 374) John Lohmeyer will communicate to NCITS the T10 recommendation that BSR NCITS.333-200x (MMC-2) not be changed.
- 375) John Lohmeyer will initiate an investigation concerning why T10 was requested to prepare SPI-3 in a format that appears to conflict with Part three of the ISO/IEC Directives (style guide) (e.g., removal of the document title at the foot of each page) and report to the next meeting.
- 376) Dean Wallace will lead the SSM working group in preparation of a press release regarding the usage of the T10 web site that John Lohmeyer can forward to NCITS for distribution.
- 377) John Lohmeyer will forward the SSM press release to NCITS.
- 378) Zane Daggett will prepare a project proposal for the SCSI Passive Interconnect Performance technical report.
- 379) John Lohmeyer will forward the OSD project proposal to NCITS within 72 hours.
- 380) John Lohmeyer will thank Paul Suhler for his public review comment on SSC and inform Paul of the T10 action regarding the comment.
- 381) John Lohmeyer will notify NCITS that T10 recommends withdrawing project 990-D (CAM-3).
- 382) Bob Snively will discuss the use of the T10 vendor ID list by IEEE p1244 and report to T10 at the May meeting.
- 383) Gene Milligan will submit a NWI proposal and request for simultaneous CD letter ballot for both SSC revision 22 (or latest revision) and SPI-3 revision 13b.
- 384) Gene Milligan will notify the JTC 1 TAG of the T10 recommendation to withdraw MMC from ISO/IEC processing.
- 385) John Lohmeyer will make the source files for SSC revision 22 (or latest revision) and SPI-3 revision 13b available to Gene Milligan.
- 386) Ralph Weber will add OSD to the device types and version descriptors in SPC-2.
- 387) John Lohmeyer will send letters to Ron Roberts and Don Tolmie thanking them for bidding on the conversion RBC to ISO/IEC and informing them that T10 has decided not to pursue the project.

14. Meeting Schedule

The next plenary meeting of T10 will be May 18, 2000 in Nashua, NH at the Sheraton Nashua Hotel (603) 888-9970, hosted by Hitachi Cable Manchester. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

May '00 Meeting Map
(3/09/00 Version)

Monday 5/15	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	Joint T10/T11.3 SCSI CAP WG												(60)	
	+-----+													
	T10 Proc. SG.												(20)	
	+-----+													
	Mt. Fuji - 4 WG												(20)	
	+-----+													
Tuesday 5/16	8	9	10	11	12	1	2	3	4	5	6	7	8	9
	+-----+													
	Parallel SCSI WG												(60)	
	+-----+													
	MMC WG												(20)	
	+-----+													
	T11 ad hocs												(40)	
	+-----+													
Wednesday 5/17	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	SCSI Commands, Arch., & Protocol WG												(60)	
	+-----+													
	MMC WG												(20)	
	+-----+													
	SFF WG										SFF		(40)	
	+-----+													
Thursday 5/18	9	10	11	12	1	2	3	4	5	6	7	8		
	+-----+													
	T10 Plenary / STA Tech (*)												(7/40)	
	+-----+													
	STA Marcom												(15)	
	+-----+													
Friday 5/19	8	9	10	11	12	1	2	3	4	5				
	+-----+													
	SCSI Trade Association (STA)												(30)	
	+-----+													

(*) - STA Technical meeting (includes SCSI Harbor) begins 30 minutes after the T10 plenary meeting but not before 1:30 pm

Meetings marked with == are T10-authorized meetings.
Meetings marked with -- are authorized by other groups and may change without notice.

Other T10-authorized meetings:

Meeting	Date		Location / Contact
Access Controls	03/15/00	Wed TBD	Teleconference / Elliott
Par. SCSI WG	03/27/00	Mon 1:00p	Milpitas, CA / Lamers
	03/28/00	Tue 9:00a	Milpitas, CA / Lamers
Joint T11.3/T10	04/05/00	Wed~1:00p	San Diego, CA / T11
SST WG	04/05/00	Wed 9:00a	San Diego, CA / T11
Cable Perf. SG	04/11/00	Tue 9:00a	Milpitas, CA / Abou-Jeyab
SCSI Model WG	04/12/00	Wed 9:00a	Milpitas, CA / Abou-Jeyab
Access Controls	04/12/00	Wed TBD	Teleconference / Elliott
MMC-3 WG	late April	TBD	Placerville, CA / Roberts
Par. SCSI WG	04/26/00	Wed 1:00p	Colo Spgs, CO / Lohmeyer
	04/27/00	Thu 9:00a	Colo Spgs, CO / Lohmeyer
Joint T11.3/T10	06/__/00	__ _:	Boise, ID / T11
SST WG	06/07/00	Wed 9:00a	Boise, ID / T11
Cable Perf.	06/12-13	Mon-Tue	Chicago, IL / Ogbuokiri
SSM WG	06/13-14	Tue-Wed	Chicago, IL / Ogbuokiri
Par. SCSI WG	06/15/00	Thu 9:00a	Chicago, IL / Ogbuokiri
	06/16/00	Fri 9:00a	Chicago, IL / Ogbuokiri

Meeting Map Abbreviation Key:

Amnd: Amendment

Cable Perf.: Cable Performance Testing

CAM: Common Access Method

CAM-3: Next generation CAM for SCSI-3

CAP: Commands, Architecture, and Protocols

EPI: SCSI Enhanced Parallel Interface (Technical Report)

Fast-20: Data Transfer at 20 Mega-transfers/second (a.k.a., Ultra)

Fast-40: Data Transfer at 40 Mega-transfers/second (a.k.a., Ultra2)

Fast-80: Data Transfer at 80 Mega-transfers/second (a.k.a., Ultra3, Ultra160)

Fast-160: Data Transfer at 160 Mega-transfers/second (a.k.a., Ultra4, Ultra320)

FC: Fibre Channel

FC-AL: Fibre Channel - Arbitrated Loop (a T11 project)

FCLC: Fibre Channel Loop Community (not an NCITS activity)

I/F: Interface

HAP: High Availability Profile (Technical Report)

LB: Letter Ballot

MMC-2: Multimedia Commands - 2 (CD-ROM, DVD, etc.)

OBD_T: Object-Based Device Tutorial

Par.: Parallel (e.g., SPI-n, Domain Validation)

PH: Physical (Connectors, Cables, Transceivers, etc.)

Phys Test SG: Physical Test Planning Study Group

Plenary: Full Committee Meeting

RAID: Redundant Array of Independent Devices

RBC: Reduced Block Commands

SBC: SCSI-3 Block Commands

SBP-2: Serial Bus Protocol for IEEE 1394 (2nd generation protocol)

SCC-2: SCSI Controller Commands - 2 (2nd generation RAID command set)

SCSI: Small Computer System Interface

SES: SCSI Enclosure Services

SCSI Harbor: A STA project on defining a wrapper for SCSI devices

SFF: SFF Industry Group (not an NCITS activity)

SG: Study Group

SMC: SCSI-3 Medium Changer Commands

SPC-2: SCSI Primary Commands - 2 (2nd generation)

SPI-2: Second Generation SCSI Parallel Interface

SPI-3: Third Generation SCSI Parallel Interface

SPI-4: Fourth Generation SCSI Parallel Interface

SSA: Serial Storage Interface
 SSC: SCSI-3 Stream Commands (includes Tape)
 SSWG: Specific-Subject Working Groups
 STA: SCSI Trade Association (not an NCITS activity)
 STA Tech: STA Technical Meeting (T10 members invited)
 T10: Lower Level Interfaces Technical Committee
 T10 Proc.: T10 Procedures
 WG: Working Group (same as Ad Hoc Group)

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

Activity	Contact	Telephone/Email
EPI	Bill Ham	(508) 841-2629 bill.ham@digital.com
FCP-2, SES	Robert Snively	(415) 336-5332 Bob.Snively@eng.sun.com
SBC, SBC-2	Gene Milligan	(405) 324-3070 gene_milligan@notes.seagate.com
MMC-2, MMC-3, RMC	Bill McFerrin	(303) 651-5400 BMcFerrin@aol.com
SBP-2 or RBC	Pete McLean	(303) 678-2149 pete_mclean@maxtor.com
SBP-2	Peter Johansson	(510) 527-3926 pjohansson@aol.com
SCC-2, SPI-3, SPI-4	George Penokie	(507) 253-5208 gop@us.ibm.com
SDV	Larry Lamers	(408) 957-7817 ljlammers@ieee.org
SMC, SMC-2	Erich Oetting	(303) 673-2178 Erich_Oetting@Stortek.com
SPC-2, SPC-3, SAM-2	Ralph Weber	(214) 912-1373 roweber@acm.org
SSC	Dave Peterson	(612) 391-1008 dap@network.com
SSM	Dean Wallace	(714) 668-5028 d_wallace@qlc.com
SVP	Ed Gardner	(719) 593-8866 eag@ophidian.com
Other Activities	John Lohmeyer	(719) 533-7560 lohmeier@t10.org

The long-term T10 meeting week schedule is:

Date	Location	Host/Comments
May 15-19, 2000	Nashua, NH	Hitachi Cable / dates changed
Jul 10-14, 2000	Colorado Springs, CO	LSI Logic
Sep 11-15, 2000	Huntington Beach, CA	QLogic
Oct 30-Nov 3, 2000	Monterey, CA	Adaptec / dates changed
Jan 15-19, 2001	Orlando, FL	Adaptec (DPT Div.)
Mar 5-9, 2001	Dallas, TX	Texas Instruments
May 7-11, 2001	Manchester, NH	Hitachi Cable
Jul 16-20, 2001	Colorado Springs, CO	LSI Logic
Sep 10-14, 2001	Huntington Beach, CA	QLogic
Nov 5-9, 2001	Monterey, CA	Adaptec

Larry Lamers moved that T10 reinstate the January 2001 meeting to be held in Orlando, FL hosted by Adaptec/DPT. Zane Daggett seconded the motion. The arguments for the January meeting week centered around the frequent scheduling of ad hoc meetings in January anyway. The arguments against the January meeting week centered around the lack of productive work at such meetings. The motion passed on a vote of 14:3:2:21=40.

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.

Erich Oetting moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved. Paul Aloisi seconded the motion. The motion passed seconded.

15. Adjournment

The meeting was adjourned at 2:20 p.m. on Thursday March 9, 2000.

Enclosure(1) -- Meeting Attendees

Name	S	Organization	Electronic Mail Address
Mr. Lawrence J. Lamers	P	Adaptec, Inc.	ljlamers@ieee.org
Mr. Charles Brill	P	AMP, Inc.	cebrill@ix.netcom.com
Mr. Bill Mable	P	Amphenol Interconnect	mableaipc@aol.com
Mr. Douglas Wagner	P	Berg Electronics	wagnerdl@bergelect.com
Mr. Bill Galloway	P	BREA Technologies, Inc.	billg@breatech.com
Mr. Dennis Lang	A	Circuit Assembly Corp.	dennisl@circuitassembly.com
Mr. Edward Haske	P	CMD Technology	haske@cmd.com
Mr. Robert C. Elliott	P	Compaq Computer Corp.	Rob_Elliott@compuserve.com
Dr. William Ham	A	Compaq Computer Corp.	bill.ham@digital.com
Mr. David Rotman	V	Compaq Computer Corp.	david.rotman@compaq.com
Mr. Neil Wanamaker	P	Crossroads Systems, Inc.	ntw@crossroads.com
Mr. Charles Tashbook	P	Dallas Semiconductor	charles.tashbook@dalsemi.com
Mr. William Dawkins	O	Dell Computer	bill_dawkins@dell.com
Mr. Gary S. Robinson	O	EMC	robinson_gary@emc.com
Mr. I. Dal Allan	P	ENDL	endlcom@acm.org
Mr. Ralph O. Weber	A	ENDL Texas	roweber@acm.org
Mr. Mike Taylor	O	Exabyte Corp.	miketa@exabyte.com
Mr. Eugene Lew	P	Fujitsu	elew@fcpa.fujitsu.com
Mr. Nathan Hastad	P	General Dynamics	nathan.j.hastad@gd-is.com
Mr. Tim Anderson	A	Hewlett Packard Co.	tima@core.rose.hp.com
Mr. Steve Jerman	A.	Hewlett Packard Co.	steve_jerman@hp.com
Mr. Zane Daggett	P	Hitachi Cable Manchester, Inc	zdaggett@hcm.hitachi.com
Mr. Thomas J. Kulesza	P	Honda Connectors	tkulesza@hondaconnectors.com
Mr. George O. Penokie	P	IBM Corp.	gop@us.ibm.com
Dr. Jim Hafner	V	IBM Corp.	hafner@almaden.ibm.com
Mr. Tim Bradshaw	P	Iomega Corp.	bradshat@iomega.com
Mr. Louis Grantham	P	Linfinity Micro	lgrantham@linfinity.com
Mr. John Lohmeyer	P	LSI Logic Corp.	lohmeier@t10.org
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Enclosure(3) -- T10 Document Database

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T10/00-001R0 Date: 2000/01/21 Author: John Lohmeyer Mailing: 2000_1
Agenda for T10 Meeting #36 (March '00)

T10/00-001R1 Date: 2000/02/17 Author: John Lohmeyer Mailing:
Agenda for T10 Meeting #36 (March '00)

T10/00-002R0 Date: 2000/01/21 Author: John Lohmeyer Mailing: 2000_1
T10 Project Summary - January '00

T10/00-003R0 Date: 2000/01/21 Author: John Lohmeyer Mailing: 2000_1
Jeopardy Letter for March '00 meeting

T10/00-004R0 Date: 1999/12/30 Author: John Lohmeyer Mailing: 2000_1
Letter Ballot on forwarding FCP-2 to first public review

T10/00-005R0 Date: 2000/02/03 Author: John Lohmeyer Mailing: 2000_2
Results of letter ballot 00-004 on forwarding FCP-2

T10/00-006R0 Date: 2000/02/16 Author: John Lohmeyer Mailing: Missing
Agenda for T10 Meeting #37 (May '00)

T10/00-007R0 Date: 2000/02/16 Author: John Lohmeyer Mailing: Missing
T10 Project Summary - March '00

T10/00-008R0 Date: 2000/03/10 Author: John Lohmeyer Mailing: 2000_2
Jeopardy Letter for May '00 meeting

T10/00-009R0 Date: 2000/02/16 Author: John Lohmeyer Mailing: 2000_2
Letter Ballot on recommending US Yes vote on OMC FDIS

T10/00-010R0 Date: 2000/02/29 Author: John Lohmeyer Mailing: 2000_2
Results of letter ballot 00-009 on recommending US Yes vote on OMC FDS

T10/00-011R0 Date: 2000/02/29 Author: John Lohmeyer Mailing: 2000_2
Letter Ballot on including comments with recommendation on OMC FDIS

T10/00-012R0 Date: 2000/03/03 Author: John Lohmeyer Mailing: 2000_2
Results of 00-011r0 letter ballot on recommendation on OMC FDIS

T10/00-101R0 Date: 1999/11/19 Author: Rob Elliott Mailing: 2000_1
Minutes of Access Controls teleconference - 11/18/99

T10/00-102R0 Date: 1999/12/03 Author: John Lohmeyer Mailing: 2000_1
Minutes of SPI-3/-4 Working Group - 12/2-3/99

T10/00-103R0 Date: 1999/11/30 Author: Richard Uber Mailing: 2000_1
Ultra-320 SCSI Implementing 1.8x Transmit Pre-compensation

T10/00-103R1 Date: 1999/12/02 Author: Richard Uber Mailing: 2000_1
Ultra-320 SCSI Implementing 1.8x Transmit Pre-compensation

T10/00-103R2 Date: 2000/02/09 Author: Richard Uber Mailing: 2000_2
Issues with Implementing Transmitter Pre-Compensation

T10/00-104R0 Date: 1999/11/30 Author: Andrew Bishop Mailing: 2000_1
Ultra-320 SCSI Compensation Techniques

T10/00-105R0 Date: 1999/11/30 Author: Russ Brown Mailing: 2000_1
Ultra-320 SCSI Calibration Strategy

T10/00-105R1 Date: 1999/12/01 Author: Russ Brown Mailing: 2000_1
Ultra320 SCSI Calibration Strategy

T10/00-106R0 Date: 1999/12/02 Author: Pat McGarrah Mailing: 2000_1
Ultra 320 SCSI Summary and Recommendations

T10/00-106R1 Date: 2000/02/09 Author: Mark Evans Mailing: 2000_2
Ultra320 SCSI Summary and Recommendations

T10/00-107R0 Date: 1999/12/01 Author: John Lohmeyer Mailing: 2000_1
Response to NCITS 333 (MMC-2) 1PR comment #1 from Frank Rutherford

T10/00-108R0 Date: 1999/12/01 Author: John Lohmeyer Mailing: 2000_1
Response to NCITS 333 (MMC-2) 1PR comment #2 from Paul Suhler

T10/00-109R0 Date: 2000/01/04 Author: Larry Lamers Mailing: 2000_1
SPC-3 Echo Buffer Size

T10/00-109R1 Date: 2000/01/04 Author: Larry Lamers Mailing: 2000_2
SPC-3 Echo Buffer Size

T10/00-109R2 Date: 2000/02/15 Author: Larry Lamers Mailing: 2000_2
SPC-3 Echo Buffer Size

T10/00-109R3 Date: 2000/03/08 Author: Larry Lamers Mailing: 2000_2
SPC-3 Echo Buffer Size

T10/00-110R0 Date: 1999/11/30 Author: Bill Ham Mailing: 2000_1
Minutes of the SCSI Cable Media Performance WG (draft) - 11/30/99

T10/00-110R1 Date: 2000/02/10 Author: Bill Ham Mailing: 2000_2
Minutes of the SCSI Cable Media Performance WG (aprvd) - 11/30/99

T10/00-111R0 Date: 1999/12/01 Author: Bill Ham Mailing: 2000_1
Minutes of SCSI signal modeling WG (draft) - 12/01/99

T10/00-111R1 Date: 2000/02/10 Author: Bill Ham Mailing: 2000_2
Minutes of SCSI signal modeling WG (aprvd) - 12/01/99

T10/00-112R0 Date: 1999/12/01 Author: Jonathan Fasig Mailing: 2000_1
Electrical Model Requirements of SCSI Interconnect Components

T10/00-113R0 Date: 1999/12/01 Author: Dima Smolyansky Mailing: 2000_1
SCSI Connector and Cable Modeling from TDR Measurements

T10/00-114R0 Date: 1999/12/21 Author: George Penokie Mailing: 2000_1
Unit Attention fixes in Persistent Reservation

T10/00-115R0 Date: 1999/12/07 Author: Stewart Wyatt Mailing: 2000_1
Minutes of Joint T10/T11.3 Joint Ad Hoc -- 12/7/1999

T10/00-116R0 Date: 1999/12/13 Author: Skip Jones Mailing: 2000_1
Meeting Notice -- Working Group Meetings -- Feb 7-11, 2000

T10/00-117R0 Date: Author: Mailing: Missing

not used

T10/00-118R0 Date: 1999/12/15 Author: Gene Milligan Mailing: 2000_1
Comment Resolution

T10/00-119R0 Date: 1999/12/21 Author: George Penokie Mailing: 2000_1
WDTR/SDTR/PPR Interactions

T10/00-119R1 Date: 2000/01/10 Author: George Penokie Mailing: 2000_2
WDTR/SDTR/PPR Interactions

T10/00-120R0 Date: 2000/01/19 Author: Weber & Lohmeyer Mailing: 2000_1
Minutes of SCSI Physical Working Group - Jan 10-11, 2000

T10/00-120R1 Date: 2000/02/22 Author: Weber & Lohmeyer Mailing: 2000_2
Minutes of SCSI Physical Working Group - Jan 10-11, 2000

T10/00-121R0 Date: 2000/01/19 Author: Weber & Lohmeyer Mailing: 2000_1
Minutes of SCSI Protocol Working Group - Jan 12, 2000

T10/00-121R1 Date: 2000/01/26 Author: Weber & Lohmeyer Mailing: 2000_1
Minutes of SCSI Protocol Working Group - Jan 12, 2000

T10/00-121R2 Date: 2000/02/22 Author: Weber & Lohmeyer Mailing: 2000_2
Minutes of SCSI Protocol Working Group - Jan 12, 2000

T10/00-122R0 Date: 2000/01/20 Author: Weber & Lohmeyer Mailing: 2000_1
Minutes of T10 Plenary Meeting #35 - Jan 13, 2000

T10/00-122R1 Date: 2000/02/23 Author: Weber & Lohmeyer Mailing: 2000_2
Minutes of T10 Plenary Meeting #35 - Jan 13, 2000

T10/00-123R0 Date: 2000/01/06 Author: Ralph Weber Mailing: 2000_1
Access Controls, an alternate approach

T10/00-124R0 Date: 2000/01/04 Author: Dale LaFollette Mailing: 2000_1
Draft Agenda - Joint T10/T11.3 Activity WG - Jan 13, 2000

T10/00-125R0 Date: 2000/01/05 Author: Gerry Houlder Mailing: 2000_1
Large LBA addressing using variable length CDB structure

T10/00-126R0 Date: 2000/01/10 Author: Vince Bastiani Mailing: 2000_1
U320 Timing Specification

T10/00-126R1 Date: 2000/02/10 Author: Vince Bastiani Mailing: 2000_2
Fast-160 Timing Specification

T10/00-127R0 Date: 1999/12/31 Author: Rob Elliott Mailing: 2000_1
Target-controlled congestion relief

T10/00-128R0 Date: 2000/01/10 Author: Neil Wanamaker Mailing: 2000_1
T11 Liaison Report - January 2000

T10/00-129R0 Date: 2000/01/31 Author: Gene Milligan Mailing: 2000_2
SPC Support for Partial Loading & Unloading (Summary of 99-347r3)

T10/00-130R0 Date: 2000/01/25 Author: Robert Snively/
Ralph Weber Mailing: 2000_1
Minutes of T10/T11.3 Joint Ad Hoc -- 1/13/2000

T10/00-131R0 Date: 2000/01/20 Author: Bill McFerrin Mailing: 2000_1
Minutes of MMC Working Group - 1/11/2000

T10/00-132R0 Date: 2000/02/09 Author: Mark Evans and Bruce Leshay Mailing: 2000_2
Proposal for training pattern protocol to be included in SPI-4

T10/00-132R1 Date: 2000/03/07 Author: Mark Evans and Bruce Leshay Mailing: 2000_2
Proposal for training pattern protocol to be included in SPI-4

T10/00-133R0 Date: 2000/02/09 Author: Bruce Leshay Mailing: 2000_2
Ultra320 SCSI Calibration Protocol

T10/00-133R1 Date: 2000/03/07 Author: Bruce Leshay Mailing: 2000_2
Ultra320 SCSI Calibration Protocol

T10/00-134R0 Date: 2000/02/17 Author: John Lohmeyer Mailing: 2000_2
Minutes of SCSI Physical Working Group - Feb 9-10, 2000

T10/00-135R0 Date: 2000/02/08 Author: Paul Suhler Mailing: 2000_2
Support for Large Block Addresses in SSC

T10/00-135R1 Date: 2000/02/29 Author: Paul Suhler Mailing: 2000_2
Support for Large Block Addresses in SSC-2

T10/00-135R2 Date: 2000/03/06 Author: Paul Suhler Mailing: 2000_2
Support for Large Block Addresses in SSC-2

T10/00-136R0 Date: 2000/01/28 Author: Carl Zeitler Mailing: 2000_2
Comments on FCP-2 Rev 04

T10/00-137R0 Date: 2000/01/28 Author: Carl Zeitler Mailing: 2000_2
Ladder Diagrams for Error Recovery for FCP-2 Rev 04 Out-Of-Order Delivery - Annex D

T10/00-137R1 Date: 2000/02/23 Author: Carl Zeitler Mailing: 2000_2
Ladder Diagrams for Error Recovery for FCP-2 Rev 04 Out-Of-Order Delivery - Annex D

T10/00-138R0 Date: 2000/02/01 Author: George Penokie Mailing: 2000_2
Comments on FCP-2 Letter Ballot

T10/00-139R0 Date: 2000/02/02 Author: Bob Snively Mailing: 2000_2
Comments on FCP-2 Letter Ballot

T10/00-140R0 Date: 2000/02/28 Author: Ralph Weber Mailing: 2000_2
Bug in SAM-2 Task Identifier definition

T10/00-141R0 Date: 2000/02/03 Author: Gene Milligan Mailing: 2000_2
Comments on FCP-2 Letter Ballot

T10/00-142R0 Date: 2000/01/27 Author: Larry Lamers Mailing: 2000_2
Flow Control & Read Streaming

T10/00-143R0 Date: 2000/02/04 Author: Deborah Donovan Mailing: 2000_2
Transmittal of NCITS No vote & comments on MMC-2 (BSR NCITS.333-20xx)

T10/00-143R1 Date: 2000/02/16 Author: Deborah Donovan Mailing: 2000_2
Transmittal of NCITS No vote & comments on MMC-2 (BSR NCITS.333-20xx)

T10/00-144R0 Date: 2000/02/07 Author: Larry Lamers Mailing: 2000_2
Meeting Announcement - SPI-4 WG Milpitas, CA - March 27-28, 2000

T10/00-145R0 Date: 2000/02/07 Author: Bill Ham Mailing: 2000_2
Minutes of SCSI Passive Interconnect Performance WG (draft) - 2/7/00

T10/00-145R1 Date: 2000/02/29 Author: Bill Ham Mailing: 2000_2
Minutes of SCSI Passive Interconnect Performance WG (aprvd) - 2/7/00

T10/00-146R0 Date: 2000/02/08 Author: Bill Ham Mailing: 2000_2
Minutes of SCSI Signal Modeling WG (draft) - 2/8/00

T10/00-146R1 Date: 2000/03/01 Author: Bill Ham Mailing: 2000_2
Minutes of SCSI Signal Modeling WG (aprvd) - 2/8/00

T10/00-147R0 Date: 2000/02/09 Author: Russ Brown Mailing: 2000_2
Ultra320 SCSI vs. Ultra160 SCSI Eye Diagram Data

T10/00-147R1 Date: 2000/02/09 Author: Russ Brown Mailing: 2000_2
Ultra320 SCSI vs. Ultra160 SCSI Eye Diagram Data

T10/00-148R0 Date: 2000/02/09 Author: Bill Ham Mailing: 2000_2
SCSI History and Signal Integrity Strategies

T10/00-149R0 Date: 2000/02/10 Author: Bill Ham Mailing: 2000_2
Requirements for Measuring Receive Signals in SPI-4 and beyond

T10/00-150R0 Date: 2000/02/11 Author: Bob Snively Mailing: 2000_2
Resolution of FCP-2 letter ballot comments

T10/00-150R1 Date: 2000/03/04 Author: Bob Snively Mailing: 2000_2
Resolution of FCP-2 letter ballot comments

T10/00-151R0 Date: 2000/02/16 Author: ISO/IEC Mailing: 2000_2
FDIS on Optical Memory Card Device Commands (OMC)

T10/00-152R0 Date: 2000/02/23 Author: Ralph Weber Mailing: 2000_2
Review of 16-byte operation codes

T10/00-153R0 Date: 2000/03/07 Author: Russ Brown Mailing: 2000_2
Ultra320 SCSI with Receiver Equalization 25 m. into Backplane with 6 loads

T10/00-154R0 Date: 2000/03/07 Author: Russ Brown Mailing: 2000_2
Ultra640 SCSI with Receiver Equalization 25 m. into Backplane with 6 loads

T10/00-155R0 Date: 2000/03/13 Author: Weber / Lohmeyer Mailing: 2000_2
Minutes of Parallel SCSI WG - March 7, 2000

T10/00-156R0 Date: 2000/03/13 Author: Weber / Lohmeyer Mailing: 2000_2
Minutes of SCSI Commands, Arch., & Protocol WG - Mar 6&8, 2000

T10/00-157R0 Date: 2000/02/22 Author: Weber / Lohmeyer Mailing: Missing
Minutes of T10 Plenary Meeting #36 -- March 9, 2000

T10/00-158R0 Date: 2000/02/23 Author: Wally Bridgewater Mailing: Missing
Receiver Input Voltage Budget for Eye Patterns

T10/00-159R0 Date: 2000/02/29 Author: Paul Suhler Mailing: 2000_2
Analysis of SSC Public Review Comment (SET CAPACITY)

T10/00-160R0 Date: 2000/02/29 Author: Zane Daggett Mailing: Missing
SCSI passive interconnect performance requirements

T10/00-161R0 Date: 2000/02/29 Author: Paul Suhler Mailing: 2000_2
SET CAPACITY Command

T10/00-162R0 Date: 1999/12/07 Author: Roger Ronald Mailing: 2000_2
Minutes of T11.1 HIPPI Ad Hoc WG (includes SST in item 9.0)

T10/00-163R0 Date: 2000/02/29 Author: Bill Ham Mailing: 2000_2
Minutes of SCSI Passive Interconnect Performance WG (draft) - 2/29/00

T10/00-164R0 Date: 2000/03/01 Author: Bill Ham Mailing: 2000_2
Minutes of SCSI Signal Modeling WG (draft) - 3/01/00

T10/00-165R0 Date: 2000/03/02 Author: Ralph Weber Mailing: 2000_2
Adding Reserved Bytes to EXTENDED COPY Parameter Data

T10/00-166R0 Date: 2000/03/02 Author: John Lohmeyer Mailing: 2000_2
Meeting Notice - Parallel SCSI WG - April 26-27, 2000

T10/00-167R0 Date: 2000/03/07 Author: Frank Gasparik Mailing: 2000_2
Pre-Emphasis Experimental Data

T10/00-168R0 Date: 2000/03/07 Author: Russ Brown Mailing: 2000_2
Receive Equalizer used for Quantum Ultra320 Eye Diagram Data

T10/00-169R0 Date: 2000/03/07 Author: Russ Brown Mailing: 2000_2
Effect of Varying Transmitter Amplitude on Ultra320 SCSI Receiver Equalization

T10/00-170R0 Date: 2000/02/09 Author: Mark Evans Mailing: 2000_2
LVD maximum bus path length between terminators for Fast-160 to be included
in SPI-4

T10/00-170R1 Date: 2000/03/07 Author: Mark Evans Mailing: 2000_2
LVD maximum bus path length between terminators for Fast-160 to be included
in SPI-4

T10/00-171R0 Date: 2000/03/05 Author: Ralph Weber Mailing: 2000_2
EXTENDED COPY Works in Progress

T10/00-172R0 Date: 2000/03/08 Author: Ed Gardner Mailing: 2000_2
SVP Issues

T10/00-173R0 Date: 2000/03/06 Author: Dave Peterson Mailing: Missing
Project proposal for SCSI Stream Commands - 2 (SSC-2)

T10/00-174R0 Date: 2000/03/07 Author: Vince Bastiani Mailing: Missing
Proposed training pattern for skew compensation

T10/00-175R0 Date: 2000/03/07 Author: Dan Smith Mailing: 2000_2
Driver Precompensation with Receiver Filtering for Ultra4

T10/00-176R0 Date: 2000/03/08 Author: Neil Wanamaker Mailing: 2000_2
T11 Liaison Report for March 2000

T10/00-177R0 Date: 2000/03/08 Author: Bill McFerrin Mailing: 2000_2
Minutes on MMC Working Group Meeting - March 7, 2000

T10/00-178R0 Date: 2000/03/08 Author: Bill Ham Mailing: 2000_2
Summary of Physical Test Activities

T10/00-179R0 Date: 2000/02/28 Author: Jennifer T. Mailing: 2000_2
Garner
Call for Volunteers - Chairman - NCITS /T10, I/O Interface - Lower Level