

Accredited Standards Committee\*

**National Committee for Information Technology Standards (NCITS)**

**Doc. No.:** T10/00-251r0

**Date:** July 19, 2000

**Reply to:** John Lohmeyer

To: T10 Membership  
From: Ralph Weber / John Lohmeyer  
Subject: Minutes of T10 Plenary Meeting #38 -- July 13, 2000  
Colorado Springs, CO

**Agenda**

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Approval of Minutes - May '00 Meeting - Nashua, NH (T10/00-207r1)
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8. Project Status Reports
  - 8.1 Project Status Summary and NCITS Liaison [Lohmeyer]
  - 8.2 SCSI Common Access Method - 3 (CAM-3) Status {Project 990-D} [Dallas]
  - 8.3 SCSI-3 Stream Commands (SSC) Status {Project 997-D} [Peterson]
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  - 8.5 SCSI Architecture Model - 2 (SAM-2) {Project 1157-D} [Weber]
  - 8.6 Multimedia Command Set - 2 (MMC-2) Status {Project 1228-D} [McFerrin]
  - 8.7 SCSI Primary Commands - 2 (SPC-2) Status {Project 1236-D} [Weber]
  - 8.8 Reduced Block Commands (RBC) {Project 1240-D} [McLean]
  - 8.9 SCSI Parallel Interface - 3 (SPI-3) {Project 1302-D} [Penokie]
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  - 8.11 Reduced MultiMedia Command Set (RMC) {Project 1364-D} [McFerrin]
  - 8.12 SCSI Parallel Interface - 4 (SPI-4) {Project 1365-D} [Penokie]
  - 8.13 SCSI Domain Validation Technical Report (SDV) {Project 1378-DT} [Roberts]
  - 8.14 SCSI on Scheduled Transfer (SST) {Project 1380-D} [Woelz]
  - 8.15 SCSI Medium Changer Commands - 2 (SMC-2) {Project 1383-D} [Oetting]
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  - 8.17 SCSI VI Protocol (SVP) {Project 1415-D} [Gardner]
  - 8.18 SCSI Primary Commands - 3 (SPC-3) {Project 1416-D} [Weber]
  - 8.19 SCSI Block Commands - 2 (SBC-2) {Project 1417-D} [Milligan]
  - 8.20 Object-based Storage Devices Commands (OSD) {Project 1355-D} [Milligan]
  - 8.21 SCSI Stream Commands - 2 (SSC-2) {Project 1434-D} [Peterson]
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9. Old Business
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10. New Business
  - 10.1 Results of letter ballot on forwarding SPC-2 to NCITS for first public review (00-017) [Lohmeyer]

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

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- 10.2 Actions on Working Group Recommendations
  - 10.2.1 Enhancing Performance by Reducing Training Overhead (00-270r0) [Day]
  - 10.2.2 Tightening SPI-4 Asymmetry (from 00-246r1) [Aloisi]
  - 10.2.3 Change table A.1 row 3 (from 00-246r1) [Aloisi]
  - 10.2.4 REQ/ACK Offset (00-271r1) [Leshay]
  - 10.2.5 Flow Control (00-285r1) [Leshay]
  - 10.2.6 Make the PPR PACE\_ON bit reserved [Galloway]
  - 10.2.7 SAM-2 Byte Count That's Really Buffer Size (00-213r1) [Weber]
  - 10.2.8 Editorial changes to Access Controls, 99-245r9 (00-261r0) [Hafner]
  - 10.2.9 Acceptance of SBC-2 as Committee Draft (Milligan)
- 11. ISO/IEC
  - 11.1 ISO/IEC Report [Milligan]
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- 12. Liaison Reports
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  - 12.4 IEEE 1394 [Johansson]
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  - 12.6 SCSI Trade Association (STA) [Jones/Aloisi]
  - 12.7 IETF SCSI over IP [Gardner/Robinson]
- 13. Review of Action Items
- 14. Meeting Schedule
  - 14.1 Authorization of Working Group Meetings
- 15. Adjournment

## Results of Meeting

### 1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday July 13, 2000. He thanked LSI Logic 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:

- 10.2.1 Enhancing Performance by Reducing Training Overhead (00-270) [Day]
- 10.2.2 Tightening SPI-4 Asymmetry (from 00-246r1) [Aloisi]
- 10.2.3 Change table A.1 row 3 (from 00-246r1) [Aloisi]
- 10.2.4 REQ/ACK Offset (00-271r1) [Leshay]
- 10.2.5 Flow Control (00-285r1) [Leshay]

- 10.2.6 Make the PPR PACE\_ON bit reserved [Galloway]
- 10.2.7 SAM-2 Byte Count That's Really Buffer Size (00-213r1) [Weber]
- 10.2.8 Editorial changes to Access Controls, 99-245r9 (00-261r0) [Hafner]
- 10.2.9 Acceptance of SBC-2 as Committee Draft (Milligan)

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

- 12.7 IETF SCSI over IP [Gardner/Robinson]

### 3. Attendance and Membership

The membership requirements were reviewed. NCITS rules permit one vote per organization. An individual from a new organization must attend at least one T10 plenary meeting as an Observer. He/she may apply for voting membership at this meeting, which becomes effective following adjournment of the meeting. Voting privileges begin upon receipt by the NCITS Secretariat of applicable fees for the membership year.

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](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.

The Chair said he had sent letters to 17 people from 9 organizations informing them that their membership was in jeopardy due to non-attendance (see 00-015r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

Brocade Communications  
Circuit Assembly Corp.  
Exabyte Corp.  
General Dynamics  
Honda Connectors  
Iomega Corp.  
KnowledgeTek, Inc.  
NSTOR  
QLogic Corp.

All of these organizations were present except:

Circuit Assembly Corp.  
NSTOR

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).

The following organizations requested new (or reinstated) membership:

Genroco

The T10 membership during the meeting was 38 organizations down 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 - May '00 Meeting - Nashua, NH (T10/00-207r1)**

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 July 20, 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 lohmeyer@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](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](mailto:amarasco@ansi.org) or 212-642-4954. Gene Milligan has 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 asked that anyone who knows of applicable patents contact him. There were no responses to the call for patents.

## 7. Review of Old Action Items

- 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. *Reassign to Paul Aloisi*
- 377) John Lohmeyer will forward the SSM press release to NCITS. *Carryover*
- 388) Ralph Weber will prepare SPC-2 revision 18 for letter ballot vote. *Completed*
- 389) John Lohmeyer will conduct a letter ballot vote on forwarding SPC-2 revision 18 to first public review. *Completed*
- 390) John Lohmeyer will contact NCITS regarding formalization of the responsibilities for maintaining the vendor ID list. *Completed*
- 391) John Lohmeyer will send a letter to Ron Silletti thanking him for his public review comment. *Completed*
- 392) John Lohmeyer will forward SPI-3 revision 14 to NCITS for processing toward to second public review. *Completed*
- 393) John Lohmeyer will forward 00-173r1 to NCITS as a project proposal for SSC-2 within 72 hours. *Completed*
- 394) John Lohmeyer will forward 00-238r0 to NCITS as a project proposal for the PIP Technical Report. *Completed*

## 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.

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

John Lohmeyer reported that NCITS has withdrawn this project at T10's request.

This item will be dropped from subsequent agendas.

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

John Lohmeyer reported that SSC has been published as NCITS.335:2000. He congratulated Dave Peterson, the SSC project editor for his hard work.

This item will be dropped from subsequent agendas.

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

Bob Snively reported on the FCP-2 activities of the Joint T10/T11.3 Working Group (minutes in 00-289) and the CAP working group (minutes in 00-250). He noted that responses are ready for all 1,350 letter ballot comments.

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

Ralph Weber reported that the CAP working group (minutes in 00-250) made the best progress in months toward resolving the multi-port device model issues. Much work remains to be done, but all of the existing SAM-2 discussion of multi-port devices will be substantially revised or replaced by the time the effort is completed. He

noted that revision 13 remains the current SAM-2 revision and stated that the earliest date for a new revision would be following the September meeting, as not enough new proposals have been approved to justify creating a revision.

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

Bill McFerrin reported that Ron Roberts received the official ANSI copy of MMC-2 (NCITS.333:2000). John Lohmeyer congratulated Ron on the completion of MMC-2.

This item will be dropped from subsequent agendas.

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

John Lohmeyer reported that the SPC-2 letter ballot had closed. Discussion of the SPC-2 letter ballot is covered in agenda item 10.1.

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

John Lohmeyer reported that RBC has been published as NCITS.330:2000. He congratulated Ron Roberts, the RBC project editor, and Pete McLean, the RBC project leader, for their hard work.

This item will be dropped from subsequent agendas.

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

John Lohmeyer reported that SPI-3 is in second public review. The review started on 30 June and will close on 14 August.

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

Bill McFerrin reported the activities of the MMC-3 working group (minutes in 00-298)

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

Bill McFerrin reported that RMC development is dormant at this time so that work on MMC-3 can proceed.

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

George Penokie reported on the activities of the SPI-4 working group (minutes in 00-249).

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

Ron Roberts reported on the activities of the SDV working group (minutes in 00-284). Ron Roberts and John Lohmeyer reported on the activities of the SDV working group meeting on June 15 (minutes in 00-255).

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

Don Woelz reported that work continues smoothly on SST. Revision 3 of the document was reviewed at the T11.2 working group meeting in June.

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

Erich Oetting reported that work on incorporating persistent reservations changes progresses in SMC-2 revision 1. He stated that SMC-2 revision 1 will be available for the mailing.

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

Paul Aloisi reported on the activities of the SSM working group meeting (minutes in 00-254). Paul noted that Dean Wallace will no longer be able to chair SSM activities and that he probably will be assuming the chair responsibilities. Paul issued a call for a vice-chair for SSM activities.

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

Ed Gardner reported on the SVP work and activities related to SVP in the CAP working group (minutes in 00-250). Bill Ham sought and received clarification of the purpose of SVP.

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

Ralph Weber reported that progress on SPC-3 has been delayed by at least two months as a result of the large number of comments received on the SPC-2 letter ballot.

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

Gene Milligan reported on the CAP activities related to SBC-2 (minutes in 00-250).

**8.20 Object-based Storage Devices Commands (OSD) {Project 1355-D} [Milligan]**

Gene Milligan reported that the OSD working group will meet follow the T10 plenary meeting. John Lohmeyer noted in response to a question about the last minutes, that the SNIA URL is <http://www.snia.org/>.

**8.21 SCSI Stream Commands - 2 (SSC-2) {Project 1434-D} [Peterson]**

Erich Oetting reported that SSC-2 is currently incorporating a large block proposal and a SET CAPACITY command proposal. The next revision of SSC-2 will be available for review prior to the August Joint T10/T11.3 working group meeting.

**8.22 SCSI Passive Interconnect Performance (PIP) Technical Report (PIP) {Project 1439-DT} [Ham]**

Bill Ham reported the activities PIP working group (minutes in 00-253).

**9. Old Business****9.1 Report on T10 Procedures Study Group Meeting [Lohmeyer]**

John Lohmeyer reported that the procedures study group recommended two procedures documents for T10 approval and forwarding to NCITS.

John presented and reviewed the 00-221r1 (Policy for T10 Plenary Meetings and Accompanying Meeting Weeks). Skip Jones was concerned about the \$175 room rate limit.

John Lohmeyer moved that 00-221r2 (r1 as revised) be forwarded to NCITS for processing as a T10 procedure. Paul Aloisi seconded the motion. Skip Jones made a friendly amendment that raised the room rate limit to \$190. The motion passed on a vote of 27:0:1:10=38.

John Lohmeyer took an action item to prepare 00-221r2 (Policy for T10 Plenary Meetings and Accompanying Meeting Weeks) for forwarding to NCITS. John Lohmeyer took an action item to forward 00-221r2 to NCITS for processing as a T10 procedure document.

Gene Milligan moved that 00-283r1 (NCITS T10 Standards Development Policies and Procedures) be forwarded to NCITS for processing as a T10 procedure, replacing 94-198r3. Paul Aloisi seconded the motion. The motion passed on a vote of 30:0:0:8=38.

John Lohmeyer took an action item to forward 00-283r1 (NCITS T10 Standards Development Policies and Procedures) to NCITS for processing as a revision to the T10 procedure document 94-198r3.

**9.2 IEEE Usage of T10 Vendor ID List [Lohmeyer]**

John Lohmeyer reported that NCITS is considering the proposal from the last T10 meeting that NCITS take responsibility for the Vendor ID list and assign maintenance of the list to T10. He stated that he has not been informed of the results of the NCITS deliberations.

**9.3 T10 Style Guide and Templates Project Report [Evans]**

Gene Milligan moved that T10 adopt in principle the ISO/IEC Directives, Part 3, Rules for the structure and drafting of International Standards as the T10 style guide with the intent that T10 develop a cover style guide containing references the ISO/IEC directives. John Lohmeyer seconded the motion. George Penokie asked that the motion be deferred to the next meeting and, without objection, the motion was deferred to the September 2000 meeting.

**9.4 SES defects / letter ballot results on forwarding amendment (00-019) [Elliott/Lohmeyer]**

John Lohmeyer reported on results of the SES amendment letter ballot vote. The ballot passed on a vote of 32:1:0:6=39. Details of the vote are in 00-019.

Rob Elliott reviewed the SES amendment as revised based on letter ballot comments and reported on the comment resolution document (00-288r0).

Rob Elliott moved that 00-288r0 be accepted as the comments resolution for the for the SES amendment letter ballot and that SES amendment revision 1 be forward to NCITS for processing toward first public review. Gene Milligan seconded the motion.

Gene Milligan requested that pages with the revised tables be added to the amendment. Rob stated that he is following the T11 template for amendments, which does not include change pages.

The motion passed on a roll call vote of 31:0:0:7=37. Details of the roll call vote are as follows:

Organization	Stat	Name	Yes	No	Abs	NP
Adaptec, Inc.	A	Mr. Ron Roberts	1			
AMP / Tyco Electronics	P	Mr. Charles Brill	1			
Amphenol Interconnect	P	Mr. Bill Mable	1			
Berg Electronics						1
BREA Technologies, Inc.	P	Mr. Bill Galloway	1			
Brocade Communications	P	Mr. Robert Snively	1			
CMD Technology	P	Mr. Edward Haske	1			
Compaq Computer Corp.	P	Mr. Robert C. Elliott	1			
Crossroads Systems, Inc.	P	Mr. Neil Wanamaker	1			
Dallas Semiconductor	A	Mr. Titkwan Hui	1			
Dell Computer						1
EMC	P	Mr. Gary S. Robinson	1			
ENDL Texas	A	Mr. Ralph O. Weber	1			
Exabyte Corp.	P	Mr. Mike Taylor	1			
Fujitsu						1



General Dynamics	P	Mr. Nathan Hastad	1	
Genroco, Inc.	P	Mr. Donald Woelz	1	
Hewlett Packard Co.	P	Mr. Stewart Wyatt	1	
Hitachi Cable Manchester, Inc	A	Mr. Robert Canniff	1	
Honda Connectors				1
IBM Corp.	P	Mr. George O. Penokie	1	
Iomega Corp.	P	Mr. Tim Bradshaw	1	
KnowledgeTek, Inc.	P	Mr. Dennis Moore	1	
LSI Logic Corp.	P	Mr. John Lohmeyer	1	
Madison Cable Corp.				1
Maxtor Corp.	P	Mr. Pete McLean	1	
Molex Inc.	P	Mr. Jay Neer	1	
Ophidian Designs	P	Mr. Edward A. Gardner	1	
Panasonic Technologies, Inc				1
Philips Electronics	P	Mr. William P. McFerrin	1	
QLogic Corp.	P	Mr. Skip Jones	1	
Quantum Corp.	P	Mr. Mark Evans	1	
Seagate Technology	P	Mr. Gene Milligan	1	
Storage Technology Corp.	P	Mr. Erich Oetting	1	
Sun Microsystems, Inc.	P	Mr. Kenneth Moe	1	
Texas Instruments	P	Mr. Paul D. Aloisi	1	
Toshiba America Elec. Comp.				1
Woven Electronics	P	Mr. Doug Piper	1	

31 0 0 7 = 38

Gene Milligan stated that in view of the errors being corrected he wanted to change his letter ballot vote, but that in view of the absence of corrected pages in the amendment he requested that his vote be changed to abstain as he is not materially affected by the SES standard.

## 10. New Business

### 10.1 Results of letter ballot on forwarding SPC-2 to NCITS for first public review (00-017) [Lohmeyer]

John Lohmeyer reported that the letter ballot to forward SPC-2 for first public review passed on a vote of 32:4:0:3=39. Details of the letter ballot results can be found in 00-017r0.

Ralph Weber reported that he is only half way through preparing the first draft of a response document for the letter ballot comments. Discussion of the comments and responses will be on the agenda of the September CAP working group meeting.

### 10.2 Actions on Working Group Recommendations

#### 10.2.1 Enhancing Performance by Reducing Training Overhead (00-270r0) [Day]

John Lohmeyer moved that 00-270r0 be accepted for SPI-4 per the working group recommendation. Bill Galloway seconded the motion. The motion passed on a vote of 27:1:1:9=38.

#### 10.2.2 Tightening SPI-4 Asymmetry (from 00-246r1) [Aloisi]

Paul Aloisi moved that, in SPI-4 Table A.2, the last line remove the TBDs and replace with the old values, and a new line for Fast-160 be added to the table with the following equations  $\text{Min } 0,85 \times |V_n| + 50$  and  $\text{Max } 1,15 \times |V_n| - 57$ . Gene Milligan seconded the motion. The motion passed on a vote of 27:0:1:10=38.

**10.2.3 Change table A.1 row 3 (from 00-246r1) [Aloisi]**

Paul Aloisi moved that, in the SPI-4 table A.1 row 3 (the OR-tied signals) the maximum be changed to -100 mV. Gene Milligan seconded the motion. Gene stated that this was a place where TBDs were added at the last meeting when they did not need to be added. The motion passed on a vote of 27:0:0:11=38.

**10.2.4 REQ/ACK Offset (00-271r1) [Leshay]**

Gene Milligan stated that the proposal has not been available for two weeks and asked that this item not be considered at this meeting. Mark Evans expressed concerns that disposition the proposal will not occur until the August and/or September meetings and requested consideration of a letter ballot. Bill Galloway suggested a different mechanism for accomplishing about the same effect. John Lohmeyer stated that letter ballots are not a good way to resolve technical issues and suggested that working group discussions usually resolve issues such as this one quicker.

**10.2.5 Flow Control (00-285r1) [Leshay]**

Bill Galloway moved that 00-285r1 be accepted for inclusion in SPI-4. Rob Elliott seconded the motion. The motion passed on a vote of 28:0:0:10=38.

**10.2.6 Make the PPR PACE\_ON bit reserved [Galloway]**

Gene Milligan stated that this item had not been on the agenda for two weeks prior to the meeting and asked that this item not be considered at this meeting.

**10.2.7 SAM-2 Byte Count That's Really Buffer Size (00-213r1) [Weber]**

Ralph Weber moved that 00-213r2 (r1 as modified) be approved for inclusion in SAM-2. Ed Gardner seconded the motion. The motion passed on a vote of 24:0:0:14=38.

**10.2.8 Editorial changes to Access Controls, 99-245r9 (00-261r0) [Hafner]**

Ralph Weber moved that 00-261r0 be approved as an amendment to 99-245r9. Rob Elliott seconded the motion. Ralph noted that the effect of this motion is that the editor's of SPI-4, FCP-2, and other standards need not make the many of the changes described in 99-245r9. The motion passed on a vote of 24:0:1:13=38.

**10.2.9 Acceptance of SBC-2 as Committee Draft (Milligan)**

Bob Snively moved that SBC-2 revision 0 be accepted as a committee draft. Erich Oetting seconded the motion. The motion passed on a vote of 27:0:0:11=38.

**11. ISO/IEC****11.1 ISO/IEC Report [Milligan]**

Gene Milligan provided an oral report to the committee and supplied an electronic report that is available in 00-291r0.

Gene provided the following report summary for inclusion in the minutes:

Other than SMC, SES, and FCP overdue editorial work, all of the current T10 ISO/IEC actions are completed.

T10 will need to vote on Confirming, Revising, or Withdrawing ISO/IEC 9316 SCSI-2 no later than the September meeting.

## **11.2 ISO/IEC Business [Milligan]**

Gene Milligan asked that an agenda item be added in September to perform the 5-year review of SCSI-2.

## **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 00-290r0.

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

Gene Milligan presented the T13 liaison report and provided the following electronic report for inclusion in the minutes:

At the June meeting T13 resolved letter ballot comments and forwarded the standards on EDD BIOS and the PARTIES standard. They also responded to a set of public review comments on ATA/ATAPI-5 that did not result in a revision to the standard. T13 unanimously voted Ultra DMA 100 into ATA/ATAPI-6 and some updates to the signal quality annex are in work. T13 made considerable progress on the video architecture and proposal issues. The next T13 meeting is in Longmont, Colorado hosted by Maxtor 28 through 31 August.

### **12.3 SFF Industry Group [Allan]**

Dal Allan provided the following electronic report:

SFF-8101 (3 Gbs/4 Gbs Copper Signals) and SFF-8060 (HSS Backplane Design Guidelines) are new projects for high speed serial applications.

At the SSWG on Wednesday, the current high speed testing activities in SFF and other organizations were reviewed, and SFP status was presented.

SFF-8551 CD ROM Form Factor will have editing corrections made to metric conversions before being balloted for publication.

The ballot will include a request that members approve a change in the meeting cycle to hold plenaries twice a year, in May and November. The SFF website will be used as the primary means of communication for upcoming meetings and SSWGs, balloting, access to minutes etc. The SSWG will continue to meet on Wednesday afternoon of T10 week.

### **12.4 IEEE 1394 [Johansson]**

The committee discussed that status of p1394a. Whether p1394a is at IEEE ballot or at ISO was unclear.

### **12.5 IEEE P1285 Status**

Gary Robinson reported that he had requested status of P1285 from the IEEE staff. IEEE informed Gary that the four-year review date is December of this year. Gary stated that he will be watching the review/renewal status of P1285.

### **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 00-293.

**12.7 IETF SCSI over IP [Gardner/Robinson]**

Ed Gardner reported on teleconference activities on SCSI over IP and provided an electronic report that is available in 00-280r0. Ed noted that he is inviting Randy Haagens of HP to visit a CAP working group meeting in September or November. Dal Allan asked that the timing of the visit be oriented toward a Wednesday morning.

Gary Robinson reported on high level SCSI over IP and provided an electronic report that is available in 00-286r0. He noted that Dave Black (a potential IETF SCSI over IP chair or co-chair) is willing to visit T10 during September or November.

**13. Review of Action Items**

- 376) Paul Aloisi 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.
- 395) John Lohmeyer will prepare 00-221r2 (Policy for T10 Plenary Meetings and Accompanying Meeting Weeks) for forwarding to NCITS. *Completed*
- 396) John Lohmeyer will forward 00-221r2 to NCITS for processing as a T10 procedures document.
- 397) John Lohmeyer will forward 00-283r1 (NCITS T10 Standards Development Policies and Procedures) to NCITS for processing as a revision to a previously approved (94-198r3) T10 procedures document.
- 398) John Lohmeyer will forward SES Amendment #1 Rev 1 to NCITS for further processing to correct the SES defects identified in 00-233r1.

**14. Meeting Schedule**

The next plenary meeting of T10 will be September 14, 2000 in Huntington Beach, CA at the Hilton Waterfront Hotel (714-960-7873), hosted by QLogic. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

		September '00 Meeting Map															
		(7/13/00 Version)															
Day	Date	9	10	11	12	1	2	3	4	5	6	7	8	9			
Monday	9/11																
		+-----+															
		SCSI CAP WG (FCP-2 LB resolution)												(30)			
		+-----+															
		SDV WG												(30)			
		+-----+															
		DVD Meeting												(15)			
		+-----+															
Tuesday	9/12	8	9	10	11	12	1	2	3	4	5	6	7	8	9		
		+-----+															
		Parallel SCSI WG												(50)			
		+-----+															
		MMC WG												(20)			
		+-----+															
		T11 ad hocs												(40)			
		+-----+															
Wednesday	9/13	9	10	11	12	1	2	3	4	5	6	7	8	9			
		+-----+															

SCSI Commands, Arch., & Protocol WG		(50)
+-----+		
MMC WG		(20)
+-----+		
SFF WG		(40)
+-----+		

Thursday 9/14	9	10	11	12	1	2	3	4	5	6	7	8		
	+-----+													
	T10 Plenary	/	OSD/SPC-2	(*)										(50)
	+-----+													
		/	STA Tech.	(**)										(20)
		+-----+											(15)	
		STA Marcom												
	+-----+													

(\*) - Meeting begins 1 hour after T10 meeting  
 (\*\*) - Meeting begins 30 minutes after T10 meeting, but not before 1:30 pm

Friday 9/15	8	9	10	11	12	1	2	3	4	5			
	+-----+												
Fremont	SCSI Trade Association (STA)												(30)
	+-----+												

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
-----		
SST WG	08/09/00 Wed 9:00a	Seattle, WA / T11
Joint T11.3/T10	08/___/00 ___ _:00	Seattle, WA / T11
PIP WG	8/14-15/00	Colo Spgs, CO / Barnes
SSM WG	8/15-16/00	Colo Spgs, CO / Barnes
SDV WG	8/17/00 Thur 9:00a	Colo Spgs, CO / Barnes
SCSI Par. WG	8/24/00 Thur 1-7p	Denver, CO / Lohmeyer
	8/25/00 Fri 9a-1p	Denver, CO / Lohmeyer
SST WG	10/4/00 Wed 9:00a	Manchester, NH / T11
PIP WG	10/11-12/00	Santa Cruz / Seagate
SSM WG	10/12-13/00	Santa Cruz / Seagate

- Meeting Map Abbreviation Key:
- Amnd: Amendment
  - Cable Perf.: Cable Performance Testing
  - CAM: Common Access Method
  - CAP: Commands, Architecture, and Protocols
  - DVD: Digital Versatile Device (not an NCITS activity)
  - 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)
  - I/F: Interface
  - LB: Letter Ballot
  - MMC: Multimedia Commands (CD-ROM, DVD, etc.)
  - OSD: Object-based Storage Device

Par.: Parallel (e.g., SPI-n, Domain Validation)  
 PH: Physical (Connectors, Cables, Transceivers, etc.)  
 PIP: (SCSI) Passive Interconnect Performance  
 Plenary: Full Committee Meeting  
 SBC-2: SCSI Block Commands - 2  
 SCSI: Small Computer System Interface  
 SCSI Harbor: A STA project on defining a wrapper for SCSI devices  
 SDV: SCSI Domain Validation (Technical Report)  
 SES: SCSI Enclosure Services  
 SFF: SFF Industry Group (not an NCITS activity)  
 SG: Study Group  
 SMC-2: SCSI Medium Changer - 2 Commands  
 SPC-2: SCSI Primary Commands - 2 (2nd generation)  
 SPI-4: Fourth Generation SCSI Parallel Interface  
 SSC-2: SCSI Stream Commands - 2 (includes Tape)  
 SSM: SCSI Signal Modeling  
 SST: SCSI over Scheduled Transfer (ST)  
 SSWG: Specific-Subject Working Groups  
 STA: SCSI Trade Association (not an NCITS activity)  
 STA Marcom: STA Marketing Communications (not an NCITS activity)  
 STA Tech: STA Technical Meeting (T10 members invited)  
 T10: Lower Level Interfaces Technical Committee  
 T10 Proc.: T10 Procedures  
 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:

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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
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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, SSC-2	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
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 / see note
Jul 16-20, 2001	Colorado Springs, CO	LSI Logic
Sep 10-14, 2001	Huntington Beach, CA	QLogic
Nov 5-9, 2001	Monterey, CA	Adaptec
Jan 14-18, 2002		
Mar 11-15, 2002		
May 6-10, 2002		
Jul 15-19, 2002		
Sep 9-13, 2002		
Nov 4-8, 2002		

John Lohmeyer moved that the 2002 dates be accepted. Skip Jones seconded the motion. The motion passed on a vote of 16:3:0:19=38.

**NOTE: It has been proposed that the May 2001 meeting week be advanced to April 30 - May 4. This proposed change will be addressed at the September 14, 2000 meeting.**

#### 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 on a vote of 23:0:0:15=38.

### 15. Adjournment

The meeting was adjourned at 12:30 p.m. on Thursday July 13, 2000.

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

Name	S	Organization	Electronic Mail Address
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46 People Present

Status Key: P - Principal  
A,A# - Alternate  
O - Observer  
L - Liaison  
V - Visitor

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

Generated on 2000/07/19 at 15:01:49

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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: 2000\_2  
Agenda for T10 Meeting #37 (May '00)

T10/00-006R1 Date: 2000/03/17 Author: John Lohmeyer Mailing: 2000\_2  
Agenda for T10 Meeting #37 (May '00)

T10/00-006R2 Date: 2000/05/01 Author: John Lohmeyer Mailing: 2000\_3  
Agenda for T10 Meeting #37 (May '00)

T10/00-007R0 Date: 2000/03/15 Author: John Lohmeyer Mailing: 2000\_2  
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

T10/00-013R0 Date: 2000/05/25 Author: John Lohmeyer Mailing: 2000\_3  
Agenda for T10 Meeting #38 (Jul '00)

T10/00-014R0 Date: 2000/05/25 Author: John Lohmeyer Mailing: 2000\_3  
T10 Project Summary - May '00

T10/00-015R0 Date: 2000/05/24 Author: John Lohmeyer Mailing: 2000\_3  
Jeopardy Letter for July '00 meeting

T10/00-016R0 Date: 2000/05/22 Author: John Lohmeyer Mailing: 2000\_3  
Letter Ballot on forwarding SPC-2 to first public review

T10/00-017R0 Date: 2000/06/26 Author: John Lohmeyer Mailing: 2000\_4  
Results of T10 LB 00-016r0 on forwarding SPC-2 to first public review

T10/00-018R0 Date: 2000/06/12 Author: John Lohmeyer Mailing: 2000\_4  
Letter Ballot on forwarding SES AM1 to first public review

T10/00-019R0 Date: 2000/07/12 Author: John Lohmeyer Mailing: 2000\_4  
Results of T10 LB 00-018r0 on forwarding SES AM1 to first public review

T10/00-020R0 Date: 2000/07/13 Author: John Lohmeyer Mailing: Missing  
Agenda for T10 Meeting #39 (Sep '00)

T10/00-021R0 Date: 2000/07/13 Author: John Lohmeyer Mailing: Missing  
T10 Project Summary - Jul '00

T10/00-022R0 Date: 2000/07/13 Author: John Lohmeyer Mailing: Missing  
Jeopardy Letter for Sept '00 meeting

T10/00-023R0 Date: 2000/07/13 Author: John Lohmeyer Mailing: Missing  
Letter Ballot on accepting 00-292r0 for SPI-4

T10/00-024R0 Date: 2000/07/13 Author: John Lohmeyer Mailing: Missing  
Results of letter ballot 00-023r0 on accepting 00-292r0 for SPI-4

T10/00-025R0 Date: 2000/07/19 Author: John Lohmeyer Mailing: 2000\_4  
Letter Ballot on recommending US position on SPI-3 NWI

T10/00-026R0 Date: 2000/07/19 Author: John Lohmeyer Mailing: Missing  
Results of LB (00-025r0) on recommending US position on SPI-3 NWI

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

T10/00-127R1 Date: 2000/05/05 Author: Rob Elliott Mailing: 2000\_3  
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

T10/00-133R2 Date: 2000/03/27 Author: Bruce Leshay Mailing: 2000\_3  
Ultra320 SCSI Calibration Protocol

T10/00-133R3 Date: 2000/04/26 Author: Bruce Leshay Mailing: 2000\_3  
Ultra320 SCSI Calibration and Clock 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

T10/00-137R2 Date: 2000/03/28 Author: Carl Zeitler Mailing: 2000\_3  
Ladder Diagrams for Error Recovery for FCP-2 Rev 04 Out-Of-Order Delivery -  
Annex D

T10/00-137R3 Date: 2000/04/24 Author: Carl Zeitler Mailing: 2000\_3  
Ladder Diagrams for Error Recovery for FCP-2 Rev 04 Out-Of-Order Delivery -  
Annex D

T10/00-137R4 Date: 2000/05/31 Author: Carl Zeitler Mailing: 2000\_4  
Ladder Diagrams for Error Recovery for FCP-2 Rev 04 Out-Of-Order Delivery -  
Annex D

T10/00-137R5 Date: 2000/06/08 Author: Carl Zeitler Mailing: 2000\_4  
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

T10/00-140R1 Date: 2000/04/19 Author: Ralph Weber Mailing: 2000\_3  
SAM-2 Task Identifier Readability Enhancements and Addition of Nexus to SAM-2

T10/00-140R2 Date: 2000/06/22 Author: Ralph Weber Mailing: 2000\_4  
SAM-2 Task Identifier Readability Enhancements and Addition of Nexus to SAM-2

T10/00-140R3 Date: 2000/07/16 Author: Ralph Weber Mailing: 2000\_4  
SAM-2 Task Identifier Readability Enhancements and Addition of Nexus to SAM-2

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

T10/00-142R1 Date: 2000/04/20 Author: Larry Lamers Mailing: 2000\_3  
Flow Control & Read Streaming

T10/00-142R3 Date: 2000/05/14 Author: Larry Lamers Mailing: 2000\_3  
Flow Control & Read Streaming

T10/00-142R4 Date: 2000/06/13 Author: Larry Lamers Mailing: 2000\_4  
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

T10/00-150R2 Date: 2000/03/24 Author: Bob Snively Mailing: 2000\_3  
Resolution of FCP-2 letter ballot comments

T10/00-150R3 Date: 2000/05/10 Author: Bob Snively Mailing: 2000\_3  
Resolution of FCP-2 letter ballot comments

T10/00-150R4 Date: 2000/05/15 Author: Bob Snively Mailing: 2000\_4  
Resolution of FCP-2 letter ballot comments

T10/00-150R5 Date: 2000/06/14 Author: Bob Snively Mailing: 2000\_4  
Resolution of FCP-2 letter ballot comments

T10/00-150R6 Date: 2000/06/26 Author: Bob Snively Mailing: 2000\_4  
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

T10/00-155R1 Date: 2000/03/17 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: 2000/03/14 Author: Weber / Lohmeyer Mailing: 2000\_2  
Minutes of T10 Plenary Meeting #36 -- March 9, 2000

T10/00-157R1 Date: 2000/03/17 Author: Weber / Lohmeyer Mailing: 2000\_2  
Minutes of T10 Plenary Meeting #36 -- March 9, 2000

T10/00-157R2 Date: 2000/04/26 Author: Weber / Lohmeyer Mailing: 2000\_3  
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

T10/00-161R1 Date: 2000/03/22 Author: Paul Suhler Mailing: 2000\_3  
SET CAPACITY Command

T10/00-161R2 Date: 2000/04/05 Author: Paul Suhler Mailing: 2000\_3  
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

T10/00-163R1 Date: 2000/04/11 Author: Bill Ham Mailing: 2000\_3  
Minutes of SCSI Passive Interconnect Performance WG (aprvd) - 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

T10/00-164R1 Date: 2000/04/12 Author: Bill Ham Mailing: 2000\_3  
Minutes of SCSI Signal Modeling WG (aprvd) - 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: 2000/03/09 Author: Dave Peterson Mailing: 2000\_2  
Project proposal for SCSI Stream Commands - 2 (SSC-2)

T10/00-173R1 Date: 2000/05/15 Author: Dave Peterson Mailing: 2000\_3  
Project proposal for SCSI Stream Commands - 2 (SSC-2)

T10/00-174R0 Date: 2000/03/28 Author: Vince Bastiani Mailing: 2000\_3  
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

T10/00-180R0 Date: 2000/03/09 Author: Gene Milligan Mailing: 2000\_2  
ISO/IEC Report - March 2000

T10/00-181R0 Date: 2000/02/16 Author: Stewart Wyatt Mailing: 2000\_2  
Minutes of Joint T10/T11.3 Joint Ad Hoc -- 2/16/2000

T10/00-182R0 Date: 2000/03/06 Author: Stewart Wyatt Mailing: 2000\_2  
Minutes of Joint T10/T11.3 Joint Ad Hoc -- 3/6/2000

T10/00-182R1 Date: 2000/04/05 Author: Stewart Wyatt Mailing: 2000\_3  
Minutes of Joint T10/T11.3 Joint Ad Hoc -- 3/6/2000

T10/00-183R0 Date: 2000/03/09 Author: Paul Aloisi Mailing: 2000\_2  
STA Liaison Report for March 2000

T10/00-184R0 Date: 2000/03/29 Author: John Lohmeyer Mailing: 2000\_3  
Minutes of Parallel SCSI WG - March 27-28, 2000

T10/00-184R1 Date: 2000/03/31 Author: John Lohmeyer Mailing: 2000\_3  
Minutes of Parallel SCSI WG - March 27-28, 2000

T10/00-185R0 Date: 2000/03/16 Author: Rob Elliott Mailing: 2000\_2  
Minutes of Access Controls Teleconference - 3/15/2000

T10/00-186R0 Date: 2000/04/12 Author: Rob Elliott Mailing: 2000\_3  
Minutes of Access Controls Teleconference - 4/12/2000

T10/00-187R0 Date: 2000/03/09 Author: Gene Milligan Mailing: 2000\_2  
SBC-2 schedule

T10/00-188R0 Date: 2000/03/16 Author: John Lohmeyer Mailing: 2000\_2  
Unresolved negative from IBM on SSC Letter Ballot

T10/00-189R0 Date: 2000/03/16 Author: John Lohmeyer Mailing: 2000\_2  
Unresolved negative from Sun Microsystems on SSC Letter Ballot

T10/00-190R0 Date: 2000/03/16 Author: John Lohmeyer Mailing: 2000\_2  
T10 response to Public Review Comment #1 on NCITS.335 (SSC)

T10/00-191R0 Date: 2000/03/16 Author: John Lohmeyer Mailing: 2000\_2  
T10 response re NCITS LB negatives on NCITS.333 (MMC-2)

T10/00-192R0 Date: 2000/03/16 Author: Paul Suhler Mailing: 2000\_2  
Public Review Comment #1 on NCITS.335:20xx (SSC)

T10/00-193R0 Date: 2000/03/27 Author: George Penokie Mailing: 2000\_3  
Training Timing Modeling Results

T10/00-194R0 Date: 2000/03/27 Author: Bruce Manildi Mailing: 2000\_2  
Ultra 320 with Precompensation

T10/00-194R1 Date: 2000/03/27 Author: Bruce Manildi Mailing: 2000\_3  
320 MB Eye Pattern Data with 15-25-33% Precomp and Crosstalk

T10/00-195R0 Date: 2000/03/28 Author: Russ Brown Mailing: 2000\_3  
Ultra320 into fully populated 10-slot backplane

T10/00-196R0 Date: 2000/03/28 Author: Russ Brown Mailing: 2000\_3  
Comments on adaptive filtering for Ultra320 SCSI

T10/00-197R0 Date: 2000/03/27 Author: Mark Evans Mailing: Missing  
Alternative scheme for LVD pre-comp drivers

T10/00-198R0 Date: 2000/03/28 Author: Paul Aloisi Mailing: 2000\_3  
Fast-160 Driver and Receiver masks

T10/00-199R0 Date: 2000/03/27 Author: Bill Ham & Mailing: 2000\_3  
Robert Elliott  
Proposal for expander requirements, domain validation basic integrity check,  
and related target requirements

T10/00-199R1 Date: 2000/05/02 Author: Bill Ham & Mailing: 2000\_3  
Robert Elliott  
Proposal for expander requirements, domain validation basic integrity check,  
and related target requirements

T10/00-199R2 Date: 2000/05/15 Author: Bill Ham & Mailing: 2000\_3  
Robert Elliott  
Proposal for expander requirements, domain validation basic integrity check,  
and related target requirements

T10/00-200R0 Date: 2000/03/28 Author: Wally Bridgewater Mailing: 2000\_3  
Eye Window Amplitude

T10/00-200R1 Date: 2000/03/28 Author: Wally Bridgewater Mailing: 2000\_4  
Eye Window Amplitude

T10/00-201R0 Date: 2000/03/28 Author: Wally Bridgewater Mailing: 2000\_3  
The zero offset problem for receiver equalization

T10/00-201R1 Date: 2000/03/28 Author: Wally Bridgewater Mailing: 2000\_4  
The zero offset problem for receiver equalization

T10/00-202R0 Date: 2000/04/02 Author: Ralph Weber Mailing: 2000\_3  
Assignments for Variable Length CDB Service Action Codes

T10/00-203R0 Date: 2000/04/02 Author: Ralph Weber Mailing: 2000\_3  
Describing AEN in the Processor Device Model

T10/00-204R0 Date: 2000/04/27 Author: Weber & Lohmeyer Mailing: 2000\_3  
Minutes of Parallel SCSI WG - April 26-27, 2000

T10/00-205R0 Date: 2000/05/23 Author: Weber & Lohmeyer Mailing: 2000\_3  
Minutes of Parallel SCSI WG - May 16, 2000

T10/00-205R1 Date: 2000/06/02 Author: Weber & Lohmeyer Mailing: 2000\_4  
Minutes of Parallel SCSI WG - May 16, 2000

T10/00-206R0 Date: 2000/05/23 Author: Weber & Lohmeyer Mailing: 2000\_3  
Minutes of SCSI Commands, Arch., & Protocol WG - May 15&17, 2000

T10/00-207R0 Date: 2000/05/24 Author: Weber & Lohmeyer Mailing: 2000\_3  
Minutes of T10 Plenary Meeting #37 -- May 18, 2000

T10/00-207R1 Date: 2000/06/02 Author: Weber & Lohmeyer Mailing: 2000\_4  
Minutes of T10 Plenary Meeting #37 -- May 18, 2000

T10/00-208R0 Date: 2000/04/28 Author: John Lohmeyer Mailing: 2000\_3  
ltr to Jennifer T. Garner re call for volunteers to chair T10

T10/00-209R0 Date: 2000/04/28 Author: David Steele Mailing: 2000\_3  
Statement of management support for John Lohmeyer as chair of T10

T10/00-210R0 Date: 2000/04/09 Author: Martin Ogbuokiri Mailing: 2000\_3  
Meeting Announcement - SPIP, SSM, and SPI-4 WGs - June 12-16, 2000

T10/00-211R0 Date: 2000/04/13 Author: Ralph Weber & Mailing: 2000\_3  
David Chambliss  
Corrections to EXTENDED COPY

T10/00-211R1 Date: 2000/04/22 Author: Ralph Weber & Mailing: 2000\_3  
David Chambliss  
Corrections to EXTENDED COPY

T10/00-211R2 Date: 2000/04/28 Author: Ralph Weber & Mailing: 2000\_3  
David Chambliss  
Corrections to EXTENDED COPY

T10/00-212R0 Date: 2000/04/18 Author: Ralph Weber Mailing: 2000\_3  
Beyond Beyond 2TB

T10/00-212R1 Date: 2000/05/18 Author: Ralph Weber Mailing: 2000\_3  
Beyond Beyond 2TB

T10/00-213R0 Date: 2000/04/18 Author: Ralph Weber Mailing: 2000\_3  
SAM-2 Byte Count That's Really Buffer Size

T10/00-213R1 Date: 2000/06/22 Author: Ralph Weber Mailing: 2000\_4  
SAM-2 Byte Count That's Really Buffer Size

T10/00-213R2 Date: 2000/07/12 Author: Ralph Weber Mailing: 2000\_4  
SAM-2 Byte Count That's Really Buffer Size

T10/00-214R0 Date: 2000/04/24 Author: Mark Evans Mailing: 2000\_3

Details of test set-up used by Quantum for Ultra320 data

T10/00-215R0 Date: 2000/04/24 Author: Mark Evans Mailing: 2000\_3  
Quantum Ultra320 SCSI Test Configurations

T10/00-216R0 Date: 2000/04/05 Author: Stewart Wyatt Mailing: 2000\_3  
Minutes of Joint T10/T11.3 Joint Ad Hoc -- 4/5/2000

T10/00-217R0 Date: 2000/04/11 Author: Bill Ham Mailing: 2000\_3  
Minutes of the SPIP WG meeting (draft) - April 11, 2000

T10/00-217R1 Date: 2000/06/12 Author: Bill Ham Mailing: 2000\_4  
Minutes of the SPIP WG meeting (aprvd) - April 11, 2000

T10/00-218R0 Date: 2000/04/12 Author: Bill Ham Mailing: 2000\_3  
Minutes of the SSM WG meeting (draft) - April 12, 2000

T10/00-218R1 Date: 2000/06/13 Author: Bill Ham Mailing: 2000\_4  
Minutes of the SSM WG meeting (aprvd) - April 12, 2000

T10/00-219R0 Date: 2000/04/17 Author: Ron Silletti Mailing: 2000\_3  
Public Review Comment #1 for NCITS 336 - SCSI Parallel Interface-3

T10/00-220R0 Date: 2000/04/19 Author: Ralph Weber Mailing: 2000\_3  
Review of ISO comments on SPC

T10/00-220R1 Date: 2000/05/19 Author: Ralph Weber Mailing: 2000\_3  
Review of ISO comments on SPC

T10/00-221R0 Date: 2000/05/11 Author: Ralph Weber Mailing: 2000\_3  
Meeting schedule policy document

T10/00-221R1 Date: 2000/06/29 Author: Ralph Weber & Mailing: 2000\_4  
John Lohmeyer  
Policy for T10 Plenary Meetings and Accompanying Meeting Weeks

T10/00-221R2 Date: 2000/07/13 Author: Ralph Weber & Mailing: 2000\_4  
John Lohmeyer  
Policy for T10 Plenary Meetings and Accompanying Meeting Weeks

T10/00-222R0 Date: 2000/04/19 Author: Ralph Weber Mailing: 2000\_3  
SPC-3 Schedule

T10/00-223R0 Date: 2000/04/26 Author: Richard Uber Mailing: 2000\_3  
Specifying the signal at the receiver when using receiver equalization

T10/00-224R0 Date: 2000/04/26 Author: Richard Uber Mailing: 2000\_3  
Validation of Quantum lab setup used for testing Ultra320

T10/00-225R0 Date: 2000/04/26 Author: Richard Uber Mailing: 2000\_3  
Transmitter precompensation used with receiver equalization

T10/00-225R1 Date: 2000/05/16 Author: Richard Uber Mailing: 2000\_3  
Transmitter precompensation used with receiver equalization

T10/00-226R0 Date: 2000/04/27 Author: Bill Ham Mailing: Missing  
Minimum receiver bandwidth requirements

T10/00-227R0 Date: 2000/04/27 Author: Paul Aloisi Mailing: 2000\_3

## Calculated signal losses

T10/00-227R1 Date: 2000/05/16 Author: Paul Aloisi Mailing: 2000\_3  
Calculated signal losses

T10/00-227R2 Date: 2000/05/16 Author: Paul Aloisi Mailing: 2000\_3  
Calculated signal losses

T10/00-227R3 Date: 2000/05/18 Author: Paul Aloisi Mailing: 2000\_3  
Calculated signal losses

T10/00-227R4 Date: 2000/06/11 Author: Paul Aloisi Mailing: 2000\_4  
Calculated signal losses

T10/00-227R5 Date: 2000/07/11 Author: Paul Aloisi Mailing: 2000\_4  
Calculated signal losses

T10/00-227R6 Date: 2000/07/12 Author: Paul Aloisi Mailing: 2000\_4  
Calculated signal losses

T10/00-228R0 Date: 2000/04/28 Author: Rob Elliott Mailing: 2000\_3  
Obsoleting QAS in SPI-4

T10/00-229R0 Date: 2000/05/03 Author: Charles Binford Mailing: 2000\_3  
Task Aborted - SAM changes

T10/00-229R1 Date: 2000/06/28 Author: Charles Binford Mailing: 2000\_4  
Task Aborted - SAM changes

T10/00-230R0 Date: 2000/05/04 Author: Bob Snively Mailing: 2000\_3  
FCP-2 items that need to be included in FC-FS

T10/00-230R1 Date: 2000/05/10 Author: Bob Snively Mailing: 2000\_3  
FCP-2 items that need to be included in FC-FS

T10/00-230R2 Date: 2000/05/26 Author: Bob Snively Mailing: 2000\_4  
FCP-2 items that need to be included in FC-FS

T10/00-230R3 Date: 2000/06/30 Author: Bob Snively Mailing: 2000\_4  
FCP-2 items that need to be included in FC-FS

T10/00-230R4 Date: 2000/07/16 Author: Bob Snively Mailing: 2000\_4  
FCP-2 items that need to be included in FC-FS

T10/00-231R0 Date: 2000/05/08 Author: Rob Elliott Mailing: 2000\_3  
SPI-4 training pattern DC signal strengths

T10/00-232R0 Date: 2000/05/15 Author: Bob Snively Mailing: 2000\_3  
Asymmetrical SCSI behavior

T10/00-232R1 Date: 2000/06/27 Author: Bob Snively Mailing: 2000\_4  
Asymmetrical SCSI behavior

T10/00-233R0 Date: 2000/05/12 Author: Rob Elliott Mailing: 2000\_3  
Minor SES issues

T10/00-233R1 Date: 2000/05/17 Author: Rob Elliott Mailing: 2000\_3  
SES issues: PRODUCT REVISION LEVEL and DESCRIPTOR LENGTH

T10/00-234R0 Date: 2000/05/13 Author: Charles Monia Mailing: 2000\_3  
IETF Liaison Report to T10

T10/00-235R0 Date: 2000/05/16 Author: Richard Uber Mailing: 2000\_3  
Attenuation Data for Ultra320 SCSI

T10/00-236R0 Date: 2000/05/16 Author: Chas Gimarc Mailing: 2000\_3  
Performance impacts of training and eliminating QAS

T10/00-237R0 Date: 2000/05/16 Author: George Penokie Mailing: 2000\_3  
Training/QAS Performance Graphs

T10/00-238R0 Date: 2000/05/16 Author: Bill Ham Mailing: 2000\_3  
Project Proposal for SCSI Passive Interconnect Performance Technical Report

T10/00-239R0 Date: 2000/05/17 Author: Paul Aloisi Mailing: 2000\_3  
SPI-4 Driver - Receiver Assumptions

T10/00-239R1 Date: 2000/07/11 Author: Paul Aloisi Mailing: 2000\_4  
SPI-4 - Assumptions for the Receiver and Driver levels

T10/00-239R2 Date: 2000/07/12 Author: Paul Aloisi Mailing: 2000\_4  
SPI-4 - Assumptions for the Receiver and Driver levels

T10/00-240R0 Date: 2000/05/17 Author: Ed Gardner Mailing: 2000\_3  
SVP SAM-2 Mapping

T10/00-241R0 Date: 2000/05/17 Author: David Chambliss Mailing: 2000\_3  
Discussion of 00-211r2 Corrections to SCSI EXTENDED COPY

T10/00-242R0 Date: 2000/05/18 Author: Neil Wanamaker Mailing: 2000\_3  
T11 Liaison Report for May 2000

T10/00-243R0 Date: 2000/05/17 Author: Bill McFerrin Mailing: 2000\_3  
Minutes of MMC3/RMC Working Group - May 16-17, 2000

T10/00-244R0 Date: 2000/05/18 Author: Paul Aloisi Mailing: 2000\_3  
STA liaison report for May 2000

T10/00-245R0 Date: 2000/05/22 Author: Stewart Wyatt Mailing: 2000\_3  
Minutes of Joint T10/T11.3 Joint Ad Hoc -- 5/15/2000

T10/00-246R0 Date: 2000/06/01 Author: Paul Aloisi Mailing: 2000\_4  
Proposed Changes for SPI-4

T10/00-246R1 Date: 2000/07/11 Author: Paul Aloisi Mailing: 2000\_4  
Proposed Changes for SPI-4

T10/00-246R2 Date: 2000/07/11 Author: Paul Aloisi Mailing: 2000\_4  
Proposed Changes for SPI-4

T10/00-247R0 Date: 2000/06/02 Author: John Lohmeyer Mailing: 2000\_4  
T10 response to Public Review Comment #1 on NCITS.336 (SPI-3)

T10/00-248R0 Date: 2000/06/12 Author: Rob Elliott Mailing: 2000\_4  
SBC-2 issues

T10/00-249R0 Date: 2000/07/17 Author: Weber & Lohmeyer Mailing: 2000\_4  
Minutes of Parallel SCSI WG - July 11, 2000

T10/00-250R0 Date: 2000/07/19 Author: Weber & Lohmeyer Mailing: 2000\_4  
Minutes of Parallel SCSI WG - July 10&12, 2000

T10/00-251R0 Date: 2000/06/13 Author: Weber & Lohmeyer Mailing: Missing  
Minutes of T10 Plenary Meeting #38 -- July 13, 2000

T10/00-252R0 Date: 2000/06/12 Author: Rob Elliott Mailing: 2000\_4  
QAS without IU in SPI-4

T10/00-253R0 Date: 2000/06/13 Author: Bill Ham Mailing: 2000\_4  
Minutes of Passive Interconnect Performance WG (draft) - 6/12-13/00

T10/00-254R0 Date: 2000/06/14 Author: Bill Ham Mailing: 2000\_4  
Minutes of SCSI signal modeling WG (draft) - 6/13-14/00

T10/00-255R0 Date: 2000/06/15 Author: Bill Ham Mailing: 2000\_4  
Minutes of SDV working Group - June 15, 2000

T10/00-256R0 Date: 2000/07/07 Author: Ron Roberts Mailing: 2000\_4  
Additional Expander Proposal

T10/00-257R0 Date: 2000/06/29 Author: John Lohmeyer Mailing: 2000\_4  
Expander Control Protocol

T10/00-258R0 Date: 2000/06/16 Author: Stewart Wyatt Mailing: 2000\_4  
Minutes of T11.3/T10 Joint Activity WG - June 7, 2000

T10/00-258R1 Date: 2000/07/10 Author: Stewart Wyatt Mailing: 2000\_4  
Minutes of T11.3/T10 Joint Activity WG - June 7, 2000

T10/00-259R0 Date: 2000/06/16 Author: Jim Hafner Mailing: Missing  
Further access controls

T10/00-260R0 Date: 2000/06/21 Author: Dave Baldwin Mailing: 2000\_4  
FCP-2 problem recovering the proper command

T10/00-260R1 Date: 2000/06/30 Author: Dave Baldwin Mailing: 2000\_4  
FCP-2 problem recovering the proper command

T10/00-261R0 Date: 2000/06/28 Author: Jim Hafner Mailing: 2000\_4  
Discussion of editorial changes to Access Controls, 99-245r9

T10/00-262R0 Date: 2000/06/28 Author: Jim Hafner Mailing: 2000\_4  
Suggested changes to OSD model in osd-r01

T10/00-263R0 Date: 2000/06/27 Author: Augusto Panella Mailing: 2000\_4  
IBIS Connector Modeling Specification

T10/00-264R0 Date: 2000/06/30 Author: Bob Snively Mailing: 2000\_4  
Asymmetric target behavior presentation

T10/00-265R0 Date: 2000/06/29 Author: Ed Gardner Mailing: 2000\_4  
Multi-port vs. Multi-target SCSI Devices

T10/00-266R0 Date: 2000/06/30 Author: Bob Snively Mailing: 2000\_4  
Draft of Annex D for FCP-2, Rev 5

T10/00-267R0 Date: 2000/07/05 Author: Ralph Weber Mailing: Missing



## Response to SPC-2 letter ballot comments

T10/00-268R0 Date: 2000/07/07 Author: George Penokie Mailing: 2000\_4  
Defining Targets/Initiators as Ports

T10/00-269R0 Date: 2000/07/06 Author: Ralph Weber Mailing: Missing  
Extended Copy issues in SPC-2 letter ballot

T10/00-270R0 Date: 2000/07/07 Author: Brian Day Mailing: 2000\_4  
Enhancing performance by reducing training overhead

T10/00-271R0 Date: 2000/07/11 Author: Bruce Leshay Mailing: 2000\_4  
REQ/ACK offsets for Ultra320

T10/00-272R0 Date: 2000/07/11 Author: Bruce Leshay Mailing: 2000\_4  
Data Out phase for Ultra320

T10/00-273R0 Date: 2000/07/11 Author: Russ Brown Mailing: 2000\_4  
The Effect of Noise on an Ultra320 SCSI System

T10/00-274R0 Date: 2000/07/11 Author: Russ Brown Mailing: 2000\_4  
Ultra320 Eye Diagram Data for a System with a Backplane and a Short Cable  
Assembly

T10/00-275R0 Date: 2000/07/07 Author: Bob Nixon Mailing: 2000\_4  
FCP-2 Recovery Problem

T10/00-276R0 Date: 2000/07/11 Author: Bruce Manildi Mailing: 2000\_4  
Amplitude Margins

T10/00-277R0 Date: 2000/07/07 Author: John Masiewicz Mailing: 2000\_4  
Proposal to T10 for Separate Packetized and U320 Support

T10/00-278R0 Date: 2000/07/11 Author: Ed Gardner Mailing: 2000\_4  
SVP Status and Future Plans

T10/00-279R0 Date: 2000/07/08 Author: Ed Gardner Mailing: Missing  
Large SCSI Device Identifiers

T10/00-280R0 Date: 2000/07/12 Author: Ed Gardner Mailing: 2000\_4  
iSCSI Liaison Report

T10/00-281R0 Date: 2000/07/18 Author: Umesh Chandra Mailing: 2000\_4  
SCSI Cable Modeling

T10/00-282R0 Date: 2000/07/12 Author: Keith Parker Mailing: 2000\_4  
[SSS] SCSI Socket Services status report 2000-07-12

T10/00-283R0 Date: 2000/07/13 Author: Gene Milligan Mailing: 2000\_4  
NCITS T10 Standards Development Policy and Procedures

T10/00-283R1 Date: 2000/07/13 Author: Gene Milligan Mailing: 2000\_4  
NCITS T10 Standards Development Policy and Procedures

T10/00-284R0 Date: 2000/07/10 Author: Bill Ham Mailing: 2000\_4  
Minutes of SDV working Group - July 10, 2000

T10/00-285R0 Date: 2000/07/11 Author: Bruce Leshay Mailing: Missing  
Flow Control Issues

T10/00-285R1 Date: 2000/07/11 Author: Bruce Leshay Mailing: 2000\_4  
Flow Control

T10/00-286R0 Date: 2000/07/10 Author: Gary Robinson Mailing: 2000\_4  
T10 liaison report on IETF WG on SCSI over TCP/IP

T10/00-287R0 Date: 2000/07/12 Author: Jim Hafner Mailing: 2000\_4  
TransportIDs for Access Controls

T10/00-288R0 Date: 2000/07/12 Author: Rob Elliott Mailing: 2000\_4  
Resolution of SES Amendment 1 (sesar0) letter ballot comments

T10/00-289R0 Date: 2000/07/10 Author: Stewart Wyatt Mailing: 2000\_4  
Minutes of Joint T10/T11.3 Meeting - July 10, 2000

T10/00-290R0 Date: 2000/07/13 Author: Neil Wanamaker Mailing: 2000\_4  
T11 Liaison Report to T10

T10/00-291R0 Date: 2000/07/13 Author: Gene Milligan Mailing: 2000\_4  
ISO/IEC Report 7/2000

T10/00-292R0 Date: 2000/07/13 Author: George Penokie Mailing: 2000\_4  
Make PPR Pace\_On bit reserved

T10/00-292R1 Date: 2000/07/19 Author: George Penokie Mailing: 2000\_4  
Make PPR Pace\_On bit reserved

T10/00-293R0 Date: 2000/07/13 Author: Paul Aloisi Mailing: 2000\_4  
STA Liaison report for July 2000

T10/00-294R0 Date: 2000/07/13 Author: Larry Barnes Mailing: 2000\_4  
Meeting Announcement - T10 PIP, SSM, and SDV working groups

T10/00-295R0 Date: 2000/07/13 Author: Dave Anderson Mailing: 2000\_4  
Dave Anderson's response to 00-262r0

T10/00-296R0 Date: 2000/07/13 Author: Ralph Weber & Mailing: 2000\_4  
Gene Milligan  
Minutes of OSD Working Group - July 13, 2000

T10/00-297R0 Date: 2000/07/18 Author: Carl Zeitler Mailing: 2000\_4  
Suggested Changes to Draft Annex D, FCP-2 revision 5, T10/00-266r0

T10/00-298R0 Date: 2000/07/19 Author: Bill McFerrin Mailing: 2000\_4  
Minutes of MMC3/RMC Working Group - July 11-12, 2000