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

Agenda

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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.


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. Section1.2.11 contains the ANSI patent policy. Amy Marasco manages patent issues for ANSI and can be contacted at amarasco@ansi.org or 212-642-4954. 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:

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<th>Stat</th>
<th>Name</th>
<th>Yes</th>
<th>No</th>
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<th>NP</th>
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<tr>
<td>Adaptec, Inc.</td>
<td>A</td>
<td>Mr. Ron Roberts</td>
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<td>AMP / Tyco Electronics</td>
<td>P</td>
<td>Mr. Charles Brill</td>
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<td>Amphenol Interconnect</td>
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<td>Mr. Bill Mable</td>
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<td>Berg Electronics</td>
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<td>Mr. Edward Haske</td>
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<td>CMD Technology</td>
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<td>Mr. Robert C. Elliott</td>
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<td>Compaq Computer Corp.</td>
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<td>Dallas Semiconductor</td>
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<td>ENDL Texas</td>
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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 Min 0,85 x |Vn|+50 and Max 1,15 x |Vn|-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:

```
<p>| September '00 Meeting Map             |</p>
<table>
<thead>
<tr>
<th>(7/13/00 Version)</th>
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<tbody>
<tr>
<td>Monday 9/11</td>
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<tr>
<td>9 10 11 12 1 2 3 4 5 6 7 8 9</td>
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|```
<table>
<thead>
<tr>
<th>SCSI Commands, Arch., &amp; Protocol WG</th>
<th>(50)</th>
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</thead>
<tbody>
<tr>
<td>MMC WG</td>
<td>(20)</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>SFF WG</td>
<td>(40)</td>
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<tr>
<td>Thursday 9/14 9 10 11 12 1 2 3 4 5 6 7 8</td>
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<td>--------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>T10 Plenary / OSD/SPC-2 (*)</td>
<td>(50)</td>
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<tr>
<td>/ STA Tech. (**)</td>
<td>(20)</td>
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<td>--------------------------------------</td>
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</tr>
<tr>
<td>/ STA Marcom</td>
<td>(15)</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>(*) - Meeting begins 1 hour after T10 meeting</td>
<td></td>
</tr>
<tr>
<td>(**) - Meeting begins 30 minutes after T10 meeting, but not before 1:30 pm</td>
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</table>

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:

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Date</th>
<th>Location / Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>SST WG</td>
<td>08/09/00 Wed 9:00a</td>
<td>Seattle, WA / T11</td>
</tr>
<tr>
<td>Joint T11.3/T10</td>
<td>08/__/00 ___ _:00</td>
<td>Seattle, WA / T11</td>
</tr>
<tr>
<td>PIP WG</td>
<td>8/14-15/00</td>
<td>Colo Spgs, CO / Barnes</td>
</tr>
<tr>
<td>SSM WG</td>
<td>8/15-16/00</td>
<td>Colo Spgs, CO / Barnes</td>
</tr>
<tr>
<td>SDV WG</td>
<td>8/17/00 Thu 9:00a</td>
<td>Colo Spgs, CO / Barnes</td>
</tr>
<tr>
<td>SCSI Par. WG</td>
<td>8/24/00 Thu 1-7p</td>
<td>Denver, CO / Lohmeyer</td>
</tr>
<tr>
<td></td>
<td>8/25/00 Fri 9a-1p</td>
<td>Denver, CO / Lohmeyer</td>
</tr>
<tr>
<td>SST WG</td>
<td>10/4/00 Wed 9:00a</td>
<td>Manchester, NH / T11</td>
</tr>
<tr>
<td>PIP WG</td>
<td>10/11-12/00</td>
<td>Santa Cruz / Seagate</td>
</tr>
<tr>
<td>SSM WG</td>
<td>10/12-13/00</td>
<td>Santa Cruz / Seagate</td>
</tr>
</tbody>
</table>

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.)
PPIP: (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)
SSWGs: 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:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Contact</th>
<th>Telephone/Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPI</td>
<td>Bill Ham</td>
<td>(508) 841-2629 <a href="mailto:bill.ham@digital.com">bill.ham@digital.com</a></td>
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<tr>
<td>FCP-2, SES</td>
<td>Robert Snively</td>
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<tr>
<td>SBC, SBC-2</td>
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<tr>
<td>MMC-2, MMC-3, RMC</td>
<td>Bill McFerrin</td>
<td>(303) 651-5400 <a href="mailto:BMcFerrin@aol.com">BMcFerrin@aol.com</a></td>
</tr>
<tr>
<td>SBP-2 or RBC</td>
<td>Pete McLean</td>
<td>(303) 678-2149 <a href="mailto:pete_mclean@maxtor.com">pete_mclean@maxtor.com</a></td>
</tr>
<tr>
<td>SBP-2</td>
<td>Peter Johansson</td>
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<tr>
<td>SCC-2, SPI-3, SPI-4</td>
<td>George Penokie</td>
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</tr>
<tr>
<td>SDV</td>
<td>Larry Lamers</td>
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</tr>
<tr>
<td>SMC, SMC-2</td>
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</tr>
<tr>
<td>SPC-2, SPC-3, SAM-2</td>
<td>Ralph Weber</td>
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</tr>
<tr>
<td>SSC, SSC-2</td>
<td>Dave Peterson</td>
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<tr>
<td>SSM</td>
<td>Dean Wallace</td>
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</tr>
<tr>
<td>SVP</td>
<td>Ed Gardner</td>
<td>(719) 593-8866 <a href="mailto:eag@ophidian.com">eag@ophidian.com</a></td>
</tr>
<tr>
<td>Other Activities</td>
<td>John Lohmeyer</td>
<td>(719) 533-7560 <a href="mailto:lohmeyer@t10.org">lohmeyer@t10.org</a></td>
</tr>
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The long-term T10 meeting week schedule is:

<table>
<thead>
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<th>Date</th>
<th>Location</th>
<th>Host/Comments</th>
</tr>
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<tbody>
<tr>
<td>Sep 11-15, 2000</td>
<td>Huntington Beach, CA</td>
<td>QLogic</td>
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<tr>
<td>Oct 30-Nov 3, 2000</td>
<td>Monterey, CA</td>
<td>Adaptec / dates changed</td>
</tr>
<tr>
<td>Jan 15-19, 2001</td>
<td>Orlando, FL</td>
<td>Adaptec (DPT Div.)</td>
</tr>
<tr>
<td>Mar 5-9, 2001</td>
<td>Dallas, TX</td>
<td>Texas Instruments</td>
</tr>
<tr>
<td>May 7-11, 2001</td>
<td>Manchester, NH</td>
<td>Hitachi Cable / see note</td>
</tr>
<tr>
<td>Jul 16-20, 2001</td>
<td>Colorado Springs, CO</td>
<td>LSI Logic</td>
</tr>
<tr>
<td>Sep 10-14, 2001</td>
<td>Huntington Beach, CA</td>
<td>QLogic</td>
</tr>
<tr>
<td>Nov 5-9, 2001</td>
<td>Monterey, CA</td>
<td>Adaptec</td>
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<tr>
<td>Jan 14-18, 2002</td>
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<tr>
<td>Mar 11-15, 2002</td>
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<tr>
<td>May 6-10, 2002</td>
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<tr>
<td>Jul 15-19, 2002</td>
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<tr>
<td>Sep 9-13, 2002</td>
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<tr>
<td>Nov 4-8, 2002</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Name</th>
<th>S</th>
<th>Organization</th>
<th>Electronic Mail Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Ron Roberts</td>
<td>A</td>
<td>Adaptec, Inc.</td>
<td><a href="mailto:Ron_Roberts@adaptec.com">Ron_Roberts@adaptec.com</a></td>
</tr>
<tr>
<td>Mr. Charles Brill</td>
<td>P</td>
<td>AMP / Tyco Electronics</td>
<td><a href="mailto:cebrill@ix.netcom.com">cebrill@ix.netcom.com</a></td>
</tr>
<tr>
<td>Mr. Bill Mable</td>
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<td>Amphenol Interconnect</td>
<td><a href="mailto:mableaipc@aol.com">mableaipc@aol.com</a></td>
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<tr>
<td>Mr. Bart Raudebaugh</td>
<td>O</td>
<td>Ancot Corp.</td>
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</tr>
<tr>
<td>Mr. Bill Galloway</td>
<td>P</td>
<td>BREA Technologies, Inc.</td>
<td><a href="mailto:billg@breatech.com">billg@breatech.com</a></td>
</tr>
<tr>
<td>Mr. Robert Snively</td>
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<td>Brocade Communications</td>
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<td>Mr. Edward Haske</td>
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<tr>
<td>Mr. Robert C. Elliott</td>
<td>P</td>
<td>Compaq Computer Corp.</td>
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<td>Mr. William Ham</td>
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<td>Mr. David Rotman</td>
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<td>Compaq Computer Corp.</td>
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<td>Mr. Neil Wanamaker</td>
<td>P</td>
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<td>Mr. John Tyndall</td>
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<tr>
<td>Mr. Titkwan Hui</td>
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<td>Mr. Keith W. Parker</td>
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<td>Mr. Gary S. Robinson</td>
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<td>Mr. I. Dal Endal</td>
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<td>Mr. Ralph O. Weber</td>
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<td>Mr. Mike Taylor</td>
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<td>Mr. Stewart Wyatt</td>
<td>R</td>
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</tr>
<tr>
<td>Mr. Robert Canniff</td>
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<td>Dr. Jim Hafner</td>
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<td>Mr. Dennis Moore</td>
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<td>Mr. John Lohmeyer</td>
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<tr>
<td>Ms. Jie Fan</td>
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<td>Mr. Pete McLean</td>
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<td>Mr. Jay Neer</td>
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</tr>
</tbody>
</table>
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 FDIS

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
Minutes of T10 Plenary Meeting #38 -- July 13, 2000

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

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
Proposal for training pattern protocol to be included in SPI-4

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

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

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

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

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

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

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

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

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

T10/00-137R0 Date: 2000/01/28  Author: Carl Zeitler
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
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
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
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
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
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
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
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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)
Minutes of T10 Plenary Meeting #38 -- July 13, 2000

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
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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
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T10/00-173R0 Date: 2000/03/09 Author: Dave Peterson Mailing: 2000_2
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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 & Robert Elliott  Mailing: 2000_3
Proposal for expander requirements, domain validation basic integrity check, and related target requirements

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

T10/00-199R2 Date: 2000/05/15  Author: Bill Ham & Robert Elliott  Mailing: 2000_3
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
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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
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 & John Lohmeyer Mailing: 2000_4
Policy for T10 Plenary Meetings and Accompanying Meeting Weeks

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

T10/00-222R0 Date: 2000/04/19 Author: Ralph Weber Mailing: 2000_3
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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
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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
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T10/00-230R4 Date: 2000/07/16 Author: Bob Snively Mailing: 2000_4
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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
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T10/00-233R0 Date: 2000/05/12 Author: Rob Elliott Mailing: 2000_3
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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
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
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