

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

Doc. No.: T10/99-269r1

Date: September 30, 1999

Reply to: John Lohmeyer

To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: Minutes of T10 Plenary Meeting #33 -- September 16, 1999
Huntington Beach, CA

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
 - 3.1 Voting procedures
4. Approval of Minutes - July '99 Meeting - Colorado Springs, CO (T10/99-202r1)
5. Document Distribution
6. Call for Patents
7. Review of Old Action Items
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]
 - 8.4 SCSI Fibre Channel Protocol - 2 (FCP-2) {Project 1144-D} [Snively]
 - 8.5 SCSI Architecture Model - 2 (SAM-2) {Project 1157-D} [Weber]
 - 8.6 Multimedia Command Set - 2 (MMC-2) Status {Project 1228-D} [Roberts]
 - 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]
 - 8.10 MultiMedia Command Set - 3 (MMC-3) {Project 1363-D} [Roberts]
 - 8.11 Reduced MultiMedia Command Set (RMC) {Project 1364-D} [Roberts]
 - 8.12 SCSI Parallel Interface - 4 (SPI-4) {Project 1365-D} [Penokie]
 - 8.13 SCSI Domain Validation Technical Report (SDV) {Project ____ -DT} [Lamers]
9. Old Business
 - 9.1 SCSI Socket/SSL Services Command Set (99-251) [Parker]
 - 9.2 Cable Testing Requirements (99-111r6 & 98-219r5) [Daggett/Ham]
 - 9.3 Resolution of SSC letter ballot comments (99-011r2) [Peterson]
10. New Business
 - 10.1 Report on T10 Procedures Study Group Meeting [Lohmeyer]
 - 10.2 Actions on Working Group Recommendations
 - 10.2.1 SPI-3 Table Restructuring (99-188r1) [Smith]
 - 10.2.2 Project Proposal for SCSI Signal Modeling TR (99-243r1) [Ham/Wallace]
 - 10.2.3 Project Proposal for SCSI on Scheduled Transfer (SST) (99-239r1) [Woelz/Allan]
 - 10.2.4 Project Proposal for SCSI VI Protocol (SVP) (99-246r1) [Gardner]
 - 10.2.5 SPI-3 integrity check fall back procedure (99-242r2) [Lohmeyer]
 - 10.2.6 Forcing Bus Free from QAS (99-274r0) [Moore]
 - 10.2.7 SAM-2 Tasks and Work (99-232r1) [Weber]

*Operating under the procedures of The American National Standards Institute.

NCITS Secretariat, Information Technology Industry Council (ITI)

1250 Eye Street NW, Suite 200, Washington, DC 20005-3922

Email: ncits@itic.org Telephone: 202-737-8888 FAX: 202-638-4922

- 10.2.8 Task Management Handling Changes for SPI-3 (99-227r3) [Penokie]
- 10.2.9 Logical Unit Self Test (99-179r5) [Evans]
- 10.2.10 EXTENDED COPY Support for Persistent Reservations (99-230r1) [Weber]
- 10.2.11 EXTENDED COPY and Abort Task Management Functions (99-231r1) [Weber]
- 10.2.12 Allow WRITE BUFFER when drive is not ready (99-277r0) [Houlder]
- 10.2.13 SCSI Medium Changer Commands -2 (SMC-2) Project Proposal (99-218r1) [Oetting]
- 10.2.14 MCM Additions to Fibre Channel Control Page in FCP-2 (99-206r1) [Penokie]
- 10.3 Project Proposal for SCSI on Scheduled Transfer (SST) (99-239) [Ronald]
- 11. ISO
 - 11.1 ISO Report [Milligan]
 - 11.2 ISO Business [Milligan]
 - 11.2.1 Vote to cancel Fast Track on SBC and MMC [Milligan]
 - 11.2.2 Correction to SSC-2--removing extra bytes in two service actions [Penokie]
- 12. Liaison Reports
 - 12.1 T11 Liaison Report [Wanamaker]
 - 12.2 T13 Liaison Report [Milligan]
 - 12.3 SFF Industry Group [Allan]
 - 12.4 IEEE 1394 [Johansson]
 - 12.5 IEEE P1285 Status
 - 12.6 SCSI Trade Association (STA) [Jones/Aloisi]
- 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 September 16, 1999. He thanked Skip Jones of QLogic for hosting the meeting.

John said that NCITS Subgroup Membership forms and the T10 Mailing Subscription form were available on the document 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:

- 10.2.2 Project Proposal for SCSI Signal Modeling TR (99-243r1) [Ham/Wallace]
- 10.2.3 Project Proposal for SCSI on Scheduled Transfer (SST) (99-239r1) [Woelz/Allan]
- 10.2.4 Project Proposal for SCSI VI Protocol (SVP) (99-246r1) [Gardner]
- 10.2.5 SPI-3 integrity check fall back procedure (99-242r2) [Lohmeyer]
- 10.2.6 Forcing Bus Free from QAS (99-274r0) [Moore]
- 10.2.7 SAM-2 Tasks and Work (99-232r1) [Weber]

- 10.2.8 Task Management Handling Changes for SPI-3 (99-227r3) [Penokie]
- 10.2.9 Logical Unit Self Test (99-179r5) [Evans]
- 10.2.10 EXTENDED COPY Support for Persistent Reservations (99-230r1) [Weber]
- 10.2.11 EXTENDED COPY and Abort Task Management Functions (99-231r1) [Weber]
- 10.2.12 Allow WRITE BUFFER when drive is not ready (99-277r0) [Houlder]
- 10.2.13 SCSI Medium Changer Commands -2 (SMC-2) Project Proposal (99-218r1) [Oetting]

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

- 10.2.14 MCM Additions to Fibre Channel Control Page in FCP-2 (99-206r1) [Penokie]

3. Attendance and Membership

The membership requirements were reviewed. NCITS rules permit one vote per organization. An individual from a new organization must attend two out of three consecutive plenary meetings. He/she may apply for voting membership the second meeting via a letter to the Chair of T10. The individual may apply for membership and begin voting at anytime following adjournment of the first meeting. Typically, the individual applies for membership and start casting votes at the second plenary meeting. Working group and other ad hoc meetings do not count toward attendance requirements.

The option that allows a person attending their first meeting may become a voting member immediately following that meeting, provided their NCITS fees have been paid, permits a new member to vote on letter ballots issued between his/her first and second meetings.

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 1999 membership form (available at ftp://ftp.t10.org/pub/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 13 people from 7 organizations informing them that their membership was in jeopardy due to non-attendance (see 99-009r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

Advansys
 Ancot Corp.
 Exabyte Corp.
 Harting, Inc. of N. America
 Lasercard Systems Corp.
 Methode Electronics, Inc.
 Woven Electronics

All of the organizations were present except:

Exabyte Corp.
 Harting, Inc. of N. America
 Lasercard Systems Corp.
 Methode Electronics, Inc.
 Woven Electronics

They 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:

Dell Computer

The T10 membership during the meeting was 45 organizations down from 49 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.

3.1 Voting procedures

John stated that NCITS had recently agreed in principal to make several changes to the NCITS rules. While the exact wording still needs to be created, the two-week rule is being clarified to say the two-week period is measured to the start of the relevant meeting. Also, documents revised at a meeting are not subject to the two-week rule provided the document being modified met the two-week rule. John stated that he will follow the intent of this new rule, allowing documents that were available two-weeks prior to the meeting to be processed even if the document is revised during a working group meeting earlier in the week.

Also the rule about not allowing abstentions on technical issues is being revised to permit abstentions provided a reason is stated. Such abstentions are not considered in calculating whether the motion met the 50% or 2/3rds voting requirements. John stated that he will be allowing abstentions as per the draft rule.

4. Approval of Minutes - July '99 Meeting - Colorado Springs, CO (T10/99-202r1)

The minutes were approved as written.

5. Document Distribution

Members who have any problems with their mailing subscription should deal directly with Judy Gales (jgales@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 September 23, 1999. Documents received after this time will 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. Section 1.2.11 contains the ANSI patent policy. Amy Marasco manages patent issues for ANSI and can be contacted at amarasco@ansi.org or 212-642-4954.

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

7. Review of Old Action Items

- 312) Ralph Weber will review editorially the second sentence of item c in clause 5.3.2.5.3. *Complete*
- 313) John Lohmeyer will arrange a meeting to discuss changes and updates in the T10 procedures. *Complete*
- 319) Gene Milligan will submit a NWIP and a CD contribution for RBC to ISO/IEC for consideration. *Carryover*
- 321) Ron Roberts will prepare RBC revision 10a incorporating the ANSI pre-edit for forwarding to second public review. *Complete*
- 322) John Lohmeyer will forward RBC revision 10a to second public review. *Complete*
- 323) John Lohmeyer will send a letter to Ralph Weber formally responding to his RBC public review comments. *Complete*
- 324) John Lohmeyer will notify NCITS that T10 recommends the withdrawal X3.276:1997 SCSI-3 Controller Commands. *Complete*
- 325) John Lohmeyer will notify NCITS that T10 recommends the withdrawal of X3.253:1995 SCSI-3 Parallel Interface & its Amendment. *Complete*
- 326) John Lohmeyer will notify NCITS that T10 recommends the withdrawal of X3.292:1997 SCSI-3 Interlocked Protocol. *Complete*
- 327) John Lohmeyer will notify NCITS that T10 recommends the withdrawal of X3.277:1996 Fast-20. *Complete*
- 328) John Lohmeyer and Larry Lamers will provide the SPI-3 editor with the electronic information used to include the dedication in SPI. *Carryover*
- 329) George Penokie will include the SPI dedication in SPI-3. *Complete*
- 330) John Lohmeyer will forward MMC-2 revision 11 to NCITS for processing toward first public review. *Complete*
- 331) John Lohmeyer will forward 99-214r1 to NCITS for processing as a project proposal for a technical report on Domain Validation. *Complete*
- 332) Gene Milligan will handle the international approval of DIS 14776-342 (SCC-2) as presented. *Complete*
- 333) Gene Milligan will process the international withdrawal of the SIP project. *Complete*
- 334) Gene Milligan will initiate fast track processing of NCITS:325:1998 (SBP-2). *Carryover*
- 335) Gene Milligan will create an NWI and CD contribution for MMC-2 revision 11. *Carryover*
- 336) Ron Roberts (or John Lohmeyer) will give RBC revision 10a to the IR in source and PDF format. *Carryover*
- 337) Ron Roberts (or John Lohmeyer) will give MMC-2 revision 11 to the IR in source and PDF format. *Carryover*
- 338) Larry Lamers will request minutes for the June CAM-3 review meeting from Bill Dallas. *Carryover*
- 339) Ralph Weber will add an SPC-2 version descriptor for MMC-2 revision 11. *Complete*

340) Ralph Weber will add an SPC-2 version descriptor for RBC revision 10a. *Complete*

8. Project Status Reports

8.1 Project Status Summary and NCITS Liaison [Lohmeyer]

John Lohmeyer said that the current T10 project status summary was included in the T10 Information Packages distributed prior to the meeting and will be included in the mailing as usual.

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

In the absence of Bill Dallas, no report was presented.

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

Erich Oetting informed the committee that it is expected that the SSC letter ballots will be resolved by the November meeting.

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

Bob Snively reported that the next FCP-2 meeting will be on Monday of the T11 meeting week. He described 99-247 that contains changes planned for inclusion in FCP-2 revision 3, which will be ready for presentation at the meeting in October. Bob noted that the target date for FCP-2 letter ballot is following the November committee meeting.

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

Ralph Weber reported that SAM-2 revision 11 had been prepared following the July meeting and contained all committee approved changes to that date. SAM-2 revision 12 will be prepared following this meeting in time for the committee mailing. Since the committee plan is to forward SAM-2 for public review in May 2000, Ralph proposed that major SAM-2 enhancements be limited to completion of the SCSI Multi-port Unit definition and that other major SAM-2 plans be deferred to SAM-3, for which Ralph will bring a new project proposal to the November meetings.

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

Ron Roberts reported that MMC-2 is in public review and the review ends on 24 October. Ron noted that some public review comments are expected to be submitted from the working group.

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

Ralph Weber reported that SPC-2 revision 11 had been prepared following the July meeting and contained all committee approved changes to that date. SPC-2 revision 12 will be prepared following this meeting in time for the committee mailing. Since the committee plan is to forward SPC-2 for public review in May 2000, Ralph proposed that major SPC-2 enhancements be limited to completion of the EXTENDED COPY command definition and the SCSI Multi-port Unit definition and that other major SPC-2 plans be deferred to SPC-3, for which Ralph will bring a new project proposal to the November meetings. Ralph noted that the major work deferred out of SPC-2 by this proposal would be the read/write attributes commands and the access controls commands.

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

John Lohmeyer reported that RBC is in second public review closing 7 November.

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

George Penokie reported that SPI-3 revision 9 was made available a couple of weeks ago. He explained that revision 10 will be made available following this meeting and will contain all changes approved at this meeting. He stated that a letter ballot to approve forwarding to first public review will be conducted on SPI-3 revision 10.

Ralph Weber took an action item to create a version descriptor entry for SPI-3 revision 10 in SPC-2.

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

Ron Roberts reported that MMC-3 has received input from Mt. Fuji-4 on DVD and streaming commands. He stated that the goal is to create a first revision in time for the November meetings. At the November meeting, Mr. McFaran from Philips will take over leadership of the MMC-3 project.

Ralph Weber took an action item to add MMC-3 (project 1363-D) to the version descriptors list in SPC-2.

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

Ron Roberts reported that RMC takes the 55 commands in MMC and drops them down to 20. He stated that the goal is to create a first revision in time for the November meetings. At the November meeting, Mr. McFerrin from Philips will take over leadership of the RMC project.

Ralph Weber took an action item to add RMC (project 1364-D) to the version descriptors list in SPC-2.

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

George Penokie reported that the first SPI-4 presentations were made at the SCSI Physical Working Group (minutes in 99-267). He stated that no SPI-4 working draft documents are expected for three to five months, while the proposals are reviewed and refined, unless the needs of the cable working group require a working draft sooner.

Ralph Weber took an action item to add SPI-4 (project 1365-D) to the version descriptors list in SPC-2.

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

Larry Lamers reported that Tariq Abou-Juyab has volunteered to edit the document. He asked the chair to consider accepting the editor candidate. John Lohmeyer reported that the NCITS web site does not show a project number for SDV yet, but he expects one to be assigned soon.

9. Old Business

9.1 SCSI Socket/SSL Services Command Set (99-251) [Parker]

John Lohmeyer reported that Keith Parker made a presentation to the SCSI Working Group (minutes in 99-268).

9.2 Cable Testing Requirements (99-111r6 & 98-219r5) [Daggett/Ham]

John Lohmeyer reported that the working group unanimously recommended that 99-111r6 and 98-219r5 be incorporated in SPI-3. Based on the working group recommendation, Bill Ham moved that 99-111r6 (Recommendations for content in SPI-3 Relating to Cable Performance) and 98-219r5 (Cable Media Performance Testing) be incorporated in SPI-3. Jay Neer seconded the motion. Jie Fan invoked the two-week rule and action on the motion was withdrawn since these documents had not been available two weeks.

Bill Ham moved that 99-111r4 (Recommendations for content in SPI-3 Relating to Cable Performance) and 98-219r4 (Cable Media Performance Testing) be incorporated in SPI-3. Ed Gardner seconded the motion. Jie Fan stated that 99-111r4 is not complete and will not match 98-219r4. Bill Ham stated everything since 99-111r4 and 98-219r4 is substantially editorial. Paul Aloisi supported Bill's position. Ed Gardner asked about the history of the revisions and suggested an interpretation of the two-week rule to allow the most recent documents to be voted on. The Chair declined to use Ed's interpretation as he felt it would set a bizarre precedent.

Bob Snively questioned the process by which the new revisions were generated. Bill Ham explained that the cable working group received comments from Madison and reviewed the comments. He noted that the group rejected most of the comments. Jie explained that she never received a specific response to the comments. Bill noted that Jie was not present at the working group meeting where the comments were discussed.

Dal Allan questioned the use of procedural methods to block activities of the working groups. Bob Snively stated that he would have to vote against the motion because the documents named in the motion are not the documents recommended by the working group.

The motion to incorporate 99-111r4 and 98-219r4 passed 20:7:3:15=45.

9.3 Resolution of SSC letter ballot comments (99-011r2) [Peterson]

Erich Oetting reported that action on the SSC letter ballot should be deferred to the November meeting.

10. New Business

10.1 Report on T10 Procedures Study Group Meeting [Lohmeyer]

John Lohmeyer reported that a procedures study group meeting was held on Monday of this week.

The group spent most of the time available reviewing 99-271r0 (Proposed revision to T10 Electronic Procedures), which John had prepared to supercede 95-146r2, the currently approved T10 Electronic Procedures. John said that 99-271r1 will be on the agenda for the November meetings.

Another T10 Procedures Study Group meeting is requested for Monday morning, November 1, 1999 in Monterey, CA.

10.2 Actions on Working Group Recommendations

10.2.1 SPI-3 Table Restructuring (99-188r1) [Smith]

Gene Milligan moved that 99-188r1 be approved for inclusion in SPI-3. Larry Lamers seconded the motion. The motion passed 17:1:9:18=45. Paul Aloisi stated that his negative vote was based on the opinion that the restructuring of the information was unnecessary.

10.2.2 Project Proposal for SCSI Signal Modeling TR (99-243r1) [Ham/Wallace]

Larry Lamers requested when the proposal was posted on the web site. Bill Ham explained that the document failed to meet the two week rule. John Lohmeyer asked that consideration be deferred to the November meeting, since the document does not yet exist.

10.2.3 Project Proposal for SCSI on Scheduled Transfer (SST) (99-239r1) [Woelz/Allan]

Neil Wanamaker moved that 99-239r1 be forwarded to NCITS for processing as a new project request for the SCSI on Scheduled Transfer (SST) standard. Dal Allan seconded the motion. The motion passed 32:0:0:13=45.

John Lohmeyer took an action item to forward 99-239r1 to NCITS for processing as a new project request for the SCSI on Scheduled Transfer (SST) standard.

10.2.4 Project Proposal for SCSI VI Protocol (SVP) (99-246r1) [Gardner]

Ed Gardner stated that the project proposal would be subject to the two week rule. Larry Lamer invoked the two week rule. Action on the proposal was deferred to the November meeting.

10.2.5 SPI-3 integrity check fall back procedure (99-242r2) [Lohmeyer]

George Penokie reported that the working group recommended approval of the proposal on a vote of 12:1:1. John Lohmeyer described the proposal. Larry Lamers requested that a definition of expander be added to the SPI-3 glossary and George Penokie agreed to added the glossary definition.

John Lohmeyer moved 99-242r2 (SPI-3 integrity check fall back procedure) be approved for inclusion in SPI-3. Gene Milligan seconded the motion. The motion passed 28:0:1:16=45.

10.2.6 Forcing Bus Free from QAS (99-274r0) [Moore]

Rob Elliott described the contents of the proposal, which provides a method for a QAS initiator to force a transition to bus free phase. Rob Elliott moved that 99-274r0 (Forcing a Bus Free from QAS) be approved for inclusion in SPI-3. Larry Lamers seconded the motion. The motion passed 26:0:2:17=45.

10.2.7 SAM-2 Tasks and Work (99-232r1) [Weber]

Ralph Weber moved that 99-232r1 (SAM-2 Tasks and Work) be approved for inclusion in SAM-2. Gene Milligan seconded the motion. The motion passed 28:2:0:15=45.

10.2.8 Task Management Handling Changes for SPI-3 (99-227r3) [Penokie]

George Penokie moved that 99-227r3 (Task Management Handling Changes for SPI-3) be approved for inclusion in SPI-3. Jeff Williams seconded the motion. The motion passed 31:0:0:14=45.

10.2.9 Logical Unit Self Test (99-179r5) [Evans]

Mark Evans moved that 99-179r5 (Logical Unit Self Test) be approved for inclusion in SPC-2. George Penokie seconded the motion. The motion passed 31:0:0:14=45.

10.2.10 EXTENDED COPY Support for Persistent Reservations (99-230r1) [Weber]

Ralph Weber moved that 99-230r1 (EXTENDED COPY Support for Persistent Reservations) be approved for inclusion in SPC-2. Larry Lamers seconded the motion. The motion passed 30:0:0:15=45.

10.2.11 EXTENDED COPY and Abort Task Management Functions (99-231r1) [Weber]

Ralph Weber moved that 99-231r1 (EXTENDED COPY and Abort Task Management Functions) be approved for inclusion in SPC-2. Erich Oetting seconded the motion. The motion passed 31:0:0:14=45.

10.2.12 Allow WRITE BUFFER when drive is not ready (99-277r0) [Houlder]

Gene Milligan moved that 99-277r0 (Allow WRITE BUFFER when drive is not ready) be approved for inclusion in SPC-2. Paul Aloisi seconded the motion. The motion passed 27:1:0:17=45. Bob Snively stated that his negative vote was based on concerns over initiators will overwrite microcode without holding a cooperating reservation.

10.2.13 SCSI Medium Changer Commands -2 (SMC-2) Project Proposal (99-218r1) [Oetting]

Ed Gardner noted that the submittal date should be changed to today. Gene Milligan noted that the ISO references should include SMC. Erich Oetting moved that 99-218r2 be forwarded to NCITS for processing as a new project request for the SCSI Medium Changer Commands -2 (SMC-2) standard. Paul Aloisi seconded the motion. The motion passed 30:0:0:15=45.

Erich Oetting took an action item to provide a revised document to John Lohmeyer. John Lohmeyer took an action item to forward 99-218r2 to NCITS for processing as a new project request for the SCSI Medium Changer Commands -2 (SMC-2) standard.

10.2.14 MCM Additions to Fibre Channel Control Page in FCP-2 (99-206r2) [Penokie]

George Penokie moved that 99-206r2 (MCM Additions to Fibre Channel Control Page in FCP-2) be approved for inclusion in FCP-2. Ralph Weber seconded the motion. The motion 12:6:12:15=45.

10.3 Project Proposal for SCSI on Scheduled Transfer (SST) (99-239) [Ronald]

This item was handled under agenda item 10.2.3 above.

11. ISO

11.1 ISO Report [Milligan]

Gene Milligan reported that the technical editors have fallen an additional two months behind in completing the resolution of comments.

11.2 ISO Business [Milligan]

11.2.1 Vote to cancel Fast Track on SBC and MMC [Milligan]

Larry Lamers moved that T10 request that the JTC1 TAG withdraw the ISO fast tracking of SBC. Erich Oetting seconded the motion. The motion passed 27:1:0:17=45.

Larry Lamers moved that T10 request that the JTC1 TAG cancel the ISO fast tracking of MMC. Bob Snively seconded the motion. The motion passed 22:2:2:19=45.

11.2.2 Correction to SCC-2--removing extra bytes in two service actions [Penokie]

George Penokie reported that, in SCC-2 table 52, the bytes 6 through 9 labelled reserved should be removed since they are duplicates of the length bytes elsewhere in the table. Similarly, the bytes 6 through 9 labelled reserved in table 47 should be removed.

George Penokie moved that the IR be instructed to submit a U.S. recommended vote approving the SCC-2 DIS with a comment stating that the bytes labelled reserved in tables 47 and 52 should be removed because of the duplicate length bytes elsewhere in the tables. Ralph Weber seconded the motion. The motion passed 26:0:0:19=45.

George Penokie noted that his intent is to substitute the ISO version of SCC-2 for the ANSI version of SCC-2 after the ISO version is approved. This would correct the U.S. version of SCC-2.

12. Liaison Reports

12.1 T11 Liaison Report [Wanamaker]

The T11 liaison report was provided to the committee electronically as 99-280r0. Neil Wanamaker presented the report to the committee.

12.2 T13 Liaison Report [Milligan]

Gene Milligan made an oral report to the committee and provided the following electronic report for the minutes.

The T13 August, 1999 meeting was hosted by Pete McLean of Maxtor at the Hotel Boulderado.

The ATA/ATAPI-5 Project 1321D draft was reviewed. Ultra ATA Implementation Guide (D98109r1) was reviewed and will be revised to reflect the suggested changes. ATA/ATAPI-5 will be changed to correct the state of REL after a data transfer in Read DMA and Write DMA and change state diagram pointers for Read and Write DMA.

The self-test description (DST) was changed so that Self-Test may end when the test finds a test element that does not pass the test criteria.

The ATA/ATAPI-5 Draft letter ballot is planned to follow the 10/99 meeting.

The BIOS draft standard EDD v3.0 Project 1386-D revision 1 document was reviewed. Curtis Stevens will turn a revision showing the agreed changes with change bars.

Address Offset Feature Technical Report Project 1407-DT draft revision 0 was distributed for review.

The Method for Booting Reserved Area Boot Code Project 1367-D draft was reviewed. Curtis Stevens will turn a revision with the suggested changes.

The Really Big LBA (D98142r2) proposal was reviewed. Queuing with mixed 28 bit addresses and 64 bit addresses will be prohibited. Various scenarios of register writes and mode switches were discussed.

The AV proposals from Seagate and Western digital (D99123r1 and D99128r0) were discussed.

An expansion of the SMART Error Log (D99121R0) for Log Address 02h in ATA/ATAPI-6 was approved.

Multiword DMA timing diagrams will be reviewed at the October meeting.

Dan Colegrove of IBM has agreed to contribute to an ATA/ATAPI Implementer's Guide.

The 8 bit data ordering will be added back in to ATA/ATAPI-5. An 8 Bit related Set Features will be changed from retired to obsolete in ATA/ATAPI-5. Both of these changes are needed for CFA and other hand held applications. D99126r0 documents reserved codes for future CFA commands, Set Features functions and Identify drive data.

There is a conflict between the way Byte Count is presently specified for ATAPI devices with the way a major operating system uses ATAPI tape devices. This change to the Identify Packet command adds a mode indicator so hosts can determine which way the device is configured. The configuration is controlled by a SCSI command (presently vendor unique) transported by the Packet command.

The group agreed to continue to discuss partition tables at the meetings and on the reflector. Robert Raymond agreed to produce a paper for discussion.

IDEMA is developing a standard on power efficiency in response to Japanese power consumption restrictions on disk drives. A rating based upon Joules per IOPS is being evaluated. The next meeting will be at the IDEMA office in the San Clara on November 5 at 9:30am. For more information contact Kristen Montan <kmontan@idema.org>.

A video issues working group was scheduled for October 1, 1999 in Las Vegas, Nevada. The next plenary meeting of T13 is 19-22 October hosted by Quantum at the Wailea Outrigger Hotel in Wailea, Maui, Hawaii.

12.3 SFF Industry Group [Allan]

Dal Allan provided the following electronic report for the minutes:

The round robin HSS (High Speed Serial) Testing for copper cables at Clariion uncovered a need to make minor changes to the specification.

The issues on HSSDC (High Speed Serial Data Connector) were resolved and the IEC draft and SFF-8420 are now close companions.

The 80-pin Fibre Channel SCA-2 tape connector will be restricted to 5 1/4" form factors only to avoid the risk of damage to existing disk products in the 3 1/2" form factor.

Jerry Kachlic presented a prototype of a 100-pin SCA and the question was raised on the requirement to retain the Advanced Ground Contacts in the guides. A worst case tolerance shows that first contact by the guides is not ensured and an investigation will check on whether the connector worst case plus the guidance requirements does ensure the guides make first contact.

A mismatch between the nominal specs on launch power between FC-PH-3 and the GBIC SFF-8053 will be addressed by Bill Ham and Bob Snively.

12.4 IEEE 1394 [Johansson]

Larry Lamers reported that 1394a has closed its ballot and passed with revisions. Gene Milligan reported that the revisions have been made.

12.5 IEEE P1285 Status

No report.

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

The STA liaison report was provided to the committee electronically as 99-281r0. Paul Aloisi presented the report to the committee.

The committee discussed the STA plans to develop ease of use documents for servers and the desktop.

In response to a question, Paul stated that the STA patent policy will be presented to the STA Board of Directors later in the day.

13. Review of Action Items

- 319) Gene Milligan will submit a NWIP and a CD contribution for RBC to ISO/IEC for consideration.
- 328) John Lohmeyer and Larry Lamers will provide the SPI-3 editor with the electronic information used to include the dedication in SPI.
- 334) Gene Milligan will initiate fast track processing of NCITS:325:1998 (SBP-2).

- 335) Gene Milligan will create an NWIP and CD contribution for MMC-2 revision 11a.
- 336) Ron Roberts (or John Lohmeyer) will give RBC revision 10a to the IR in source and PDF format.
- 337) Ron Roberts (or John Lohmeyer) will give MMC-2 revision 11a to the IR in source and PDF format.
- 338) Larry Lamers will request minutes for the June CAM-3 review meeting from Bill Dallas.
- 341) Ralph Weber took will create a version descriptor entry for SPI-3 revision 10 in SPC-2.
- 342) Ralph Weber will add MMC-3 (project 1363-D) to the version descriptors list in SPC-2.
- 343) Ralph Weber will add RMC (project 1364-D) to the version descriptors list in SPC-2.
- 344) Ralph Weber will add SPI-4 (project 1365-D) to the version descriptors list in SPC-2.
- 345) John Lohmeyer will forward 99-239r1 to NCITS for processing as a new project request for a SCSI on Scheduled Transfer (SST) standard.
- 346) Erich Oetting will provide 99-218r2, a revised new project request for the SCSI Medium Changer Commands -2 (SMC-2), to John Lohmeyer.
- 347) John Lohmeyer will forward 99-218r2 to NCITS for processing as a new project request for a SCSI Medium Changer Commands -2 (SMC-2) standard.

14. Meeting Schedule

The next plenary meeting of T10 will be November 4, 1999 in Monterey, CA at the Embassy Suites on Monterey Bay (831-393-1115), hosted by Adaptec. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

November '99 Meeting Map
(9/20/99 Version)

Monday 11/1	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	T10 Proc. SG SCSI Physical WG										(50)			
	+-----+													
	T11 Meetings										(40)			
	+-----+													
	Mt. Fuji - 4 WG										(20)			
	+-----+													
Tuesday 11/2	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	SCSI Physical WG										(50)			
	+-----+													
	MMC WG										(20)			
	+-----+													
	T11 Joint T10/T11.3										OBD_T	(40)		
	+-----+													
Wednesday 11/3	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	SCSI WG										(50)			
	+-----+													
	MMC WG										SFF WG SFF	(40)		
	+-----+													
Thursday 11/4	9	10	11	12	1	2	3	4	5	6	7	8		
	+-----+													
	T10 Plenary / STA Tech (*)										(60/40)			
	+-----+													
	STA Marcom										(15)			
	+-----+													

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

Friday 11/5	8	9	10	11	12	1	2	3	4	5	
	+-----+										
	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
Cable Perf. SG	9/28/99 Wed.	Chicago, IL / Martin Ogbuokiri
Interconnect	9/29/99 Thur.	Chicago, IL / Martin Ogbuokiri
Modeling SG		
T10/T11.3	10/06/99 Wed.	Fort Lauderdale, FL / T11
Joint WG		
SPI-4 WG	10/13/99 1:00p Wed	Colorado Springs, CO / John Lohmeyer
	10/14/99 Thur.	Colorado Springs, CO / John Lohmeyer
Cable Perf. SG	10/26/99 Tue.	Huntington Beach, CA / Dean Wallace
Interconnect	10/27/99 Wed.	Huntington Beach, CA / Dean Wallace
Modeling SG		
Cable Perf. SG	11/30/99 Tue.	Rochester, MN / Fasig
Interconnect	12/01/99 Wed.	Rochester, MN / Fasig
Modeling SG		
SPI-4 WG	12/2-3/99 Wed-Thur.	Rochester, MN / Fasig

Meeting Map Abbreviation Key:

Amnd: Amendment

Cable Perf.: Cable Performance Testing

CAM: Common Access Method

CAM-3: Next generation CAM for SCSI-3

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)

FC: Fibre Channel

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

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

I/F: Interface

HAP: High Availability Profile (Technical Report)

LB: Letter Ballot

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

OBD_T: Object-Based Device Tutorial

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

Plenary: Full Committee Meeting

RAID: Redundant Array of Independent Devices

RBC: Reduced Block Commands

SBC: SCSI-3 Block Commands

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

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

SCSI: Small Computer System Interface

SES: SCSI Enclosure Services

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

SFF: SFF Industry Group (not an NCITS activity)

SG: Study Group

SMC: SCSI-3 Medium Changer Commands

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

SPI-2: Second Generation SCSI Parallel Interface

SPI-3: Third Generation SCSI Parallel Interface

SSA: Serial Storage Interface

SSC: SCSI-3 Stream Commands (includes Tape)

SSWGs: Specific-Subject Working Groups

STA: SCSI Trade Association (not an NCITS activity)

STA Tech: STA Technical Meeting (T10 members invited)

T10: Lower Level Interfaces Technical Committee

T10 Proc.: T10 Procedures

WG: Working Group (same as Ad Hoc Group)

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

Activity	Contact	Telephone/Email
CAM-3	Bill Dallas	(603) 881-2508 dallas@zk3.dec.com
EPI	Bill Ham	(508) 841-2629 bill.ham@digital.com
FCP, FCP-2, SES	Robert Snively	(415) 336-5332 Bob.Snively@eng.sun.com
GPP	Gary Stephens	(602) 321-1725 grsfsi@aol.com
SBC	Gene Milligan	(405) 324-3070 gene_milligan@notes.seagate.com
MMC, MMC-2, MMC-3, RMC	Ron Roberts	(916) 677-5714 rkroberts@aol.com
SBP-2 or RBC	Pete McLean	(303) 678-2149 pete_mclean@maxtor.com
SBP-2	Peter Johansson	(510) 527-3926 pjohansson@aol.com
SCC-2, SPI-2, SPI-3, SPI-4	George Penokie	(507) 253-5208 gop@us.ibm.com
SMC	Erich Oetting	(303) 673-2178 Erich_Oetting@Stortek.com
SPC, SPC-2, SAM-2	Ralph Weber	(972) 503-3205 x228 roweber@acm.org
SSA-PH1, -PH2, -TL1, -TL2	Larry Lamers	(408) 957-7817 ljlammers@ix.netcom.com
SSA-S2P & -S3P	John Scheible	(512) 823-8208 Scheible@vnet.ibm.com
SSC	Dave Peterson	(612) 391-1008 dap@network.com
Other Activities	John Lohmeyer	(719) 533-7560 lohmeier@t10.org

The long-term T10 meeting week schedule is:

Date	Location	Host/Comments
Sep 13-17, 1999	Huntington Beach, CA	QLogic
Nov 1-5, 1999	Monterey, CA	Adaptec / dates changed
Jan 10-14, 2000	Brisbane, Australia	ENDL Pacific Technologies
Mar 6-10, 2000	Dallas, TX	TI/Unitrode
May 15-19, 2000	Nashua, NH	Hitachi Cable / dates changed
Jul 10-14, 2000	Colorado Springs, CO	LSI Logic
Sep 11-15, 2000	Huntington Beach, CA	QLogic
Oct 30-Nov 3, 2000	Monterey, CA	Adaptec / dates changed
Jan 15-19, 2001	(open)	
Mar 5-9, 2001	Dallas, TX	TI {tentative}
May 7-11, 2001	Manchester, NH	Hitachi Cable
Jul 16-20, 2001	Colorado Springs, CO	LSI Logic
Sep 10-14, 2001	Huntington Beach, CA	QLogic
Nov 5-9, 2001	Monterey, CA	Adaptec

Larry Lamers moved that the January 2001 meeting be moved from the week of 15-19 to the week of 22-26. Gene Milligan seconded the motion. The motion failed 4:13:6.

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. Paul Aloisi seconded the motion. The motion passed 18:1:1:25=45. Gene stated that his no vote was based on the schedule conflict between the SPI-4 and NCITS meetings.

Bill Ham asked that authorized ad hoc meetings be given document numbers for minutes upon authorization. John asked that discussion of the topic be deferred to the next procedures study group meeting.

Dal Allan asked the committee to confirm that only two meeting tracks will be needed in January 2000. The following plan for two meeting tracks was discussed by the group.

Tentative January '00 Meeting Map
(9/16/99 Version)

Monday 1/10	9	10	11	12	1	2	3	4	5	6	7	8	9				
	+-----+-----+-----+-----+-----+																
	T10 Proc. SG SCSI Physical WG										(50)						
	+-----+-----+-----+-----+-----+																
	Mt. Fuji - 4 WG										(20)						
	+-----+-----+-----+-----+-----+																
Tuesday 1/11	9	10	11	12	1	2	3	4	5	6	7	8	9				
	+-----+-----+-----+-----+-----+																
	SCSI Physical WG										(50)						
	+-----+-----+-----+-----+-----+																
	MMC WG										(20)						
	+-----+-----+-----+-----+-----+																
Wednesday 1/12	9	10	11	12	1	2	3	4	5	6	7	8	9				
	+-----+-----+-----+-----+-----+																
	SCSI WG										(50)						
	+-----+-----+-----+-----+-----+																
	MMC WG SFF WG SFF										(40)						
	+-----+-----+-----+-----+-----+																
Thursday 1/13	9	10	11	12	1	2	3	4	5	6	7	8					
					+-----+-----+-----+-----+-----+												
					T10 Plenary										(50)		
					+-----+-----+-----+-----+-----+												
					Joint T10/T11.3												
					+-----+-----+-----+-----+-----+												

(*) - STA Technical meeting (includes SCSI Harbor) begins 30 minutes after the T10 plenary meeting but not before 2:30 pm

Friday 1/14 8 9 10 11 12 1 2 3 4 5

No Meetings are planned for Friday.

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

15. Adjournment

The meeting was adjourned at 1:15 p.m. on Thursday September 16, 1999.

Enclosure(1) -- Meeting Attendees

Name	S	Organization	Electronic Mail Address
Mr. Lawrence J. Lamers	P	Adaptec, Inc.	ljlamers@ieee.org
Mr. Robert Frey	P	Advansys	bobf@advansys.com
Mr. Charles Brill	P	AMP, Inc.	cebrill@ix.netcom.com
Mr. Bill Mable	P	Amphenol Interconnect	bmable@spectra.net
Mr. Bart Raudebaugh	P	Ancot Corp.	bart@ancot.com
Mr. Gregg Neely	P	Andataco	greggn@andataco.com
Mr. Douglas Wagner	P	Berg Electronics	wagnerdl@bergelect.com
Mr. Dennis Lang	A	Circuit Assembly Corp.	dennisl@circuitassembly.com
Mr. Edward Haske	P	CMD Technology	haske@cmd.com
Mr. Robert C. Elliott	P	Compaq Computer Corp.	Robert.Elliott@compaq.com
Dr. William Ham	A	Compaq Computer Corp.	bill.ham@digital.com
Mr. David Rotman	V	Compaq Computer Corp.	david.rotman@compaq.com
Mr. Neil Wanamaker	P	Crossroads Systems, Inc.	ntw@crossroads.com
Mr. Charles Tashbook	P	Dallas Semiconductor	charles.tashbook@dalsemi.com
Mr. Ricardo Dominguez	P	Dell Computer	ricardo_dominguez@dell.com
Mr. Keith W. Parker	V	Diogenes SCSI	diogenes@europa.com
Mr. Jack Harwood	V	EMC	jharwood@emc.com
Mr. I. Dal Allan	P	ENDL	endlcom@ibm.net
Mr. Eugene Lew	P	Fujitsu	elew@fcpa.fujitsu.com
Mr. Ben-Koon Lin	A	Fujitsu (FCPA)	blin@fcpa.fujitsu.com
Ms. Jacqueline Sylvia	A	Hitachi Cable Manchester	jsylvia@hcm.hitachi.com
Mr. George O. Penokie	P	IBM Corp.	gop@us.ibm.com
Mr. Dan Colegrove	A#	IBM Corp.	colegrov@us.ibm.com
Mr. Louis Grantham	P	Linfinit Micro	lgrantham@linfinity.com
Mr. John Lohmeyer	P	LSI Logic Corp.	lohmeier@t10.org
Mr. Ralph O. Weber	A	LSI Logic Corp.	roweber@acm.org
Ms. Jie Fan	P	Madison Cable Corp.	jfan@madisoncable.com
Mr. Pete McLean	P	Maxtor Corp.	pete_mclean@maxtor.com
Mr. Jay Neer	A	Molex Inc.	jneer@molex.com
Mr. Edward A. Gardner	P	Ophidian Designs	eag@ophidian.com
Mr. Han Zou	P	Panasonic Technologies, Inc	hanzou@research.panasonic.com
Mr. William P. McFerrin	P	Philips Electronics	BMcFerrin@aol.com
Mr. Keiji Katata	V	Pioneer Electronic Corp.	keiji_Katata@post.pioneer.co.jp
Mr. Takeshi Kohda	V	Pioneer Electronics Corp.	takeshi_kohda@post.pioneer.co.jp
Mr. Skip Jones	P	QLogic Corp.	sk_jones@qlc.com
Mr. Mark Evans	P	Quantum Corp.	mark.evans@quantum.com
Mr. Gene Milligan	P	Seagate Technology	Gene_Milligan@notes.seagate.com
Mr. Ron Roberts	V	Sierra-Pac Technology	rkroberts@aol.com
Mr. Jeffrey Schroeder	O	ST Microelectronics	jeffrey.schroeder@st.com
Mr. Erich Oetting	P	Storage Technology Corp.	erich_oetting@stortek.com
Mr. Robert N. Snively	P	Sun Microsystems Computer Co	bob.snively@sun.com
Mr. Robert Morris	P	Texas Instruments	bob.morris@ti.com
Mr. Stephen G. Finch	A	Texas Instruments	steve.finch@tus.ssil.com
Mr. Paresh Sheth	O	Texas Instruments	paresh.sheth@ti.com
Mr. Fred Hooper	O	Thomas & Betts	fred_hooper@tnb.com
Mr. Arlan P. Stone	A	UNISYS Corporation	arlan.stone@unisys.com

Mr. Paul D. Aloisi	P	Unitrode Corporation	aloisi@unitrode.com
Mr. Donald R. Getty	A	Unitrode Corporation	gettd@unitrode.com
Mr. Jeffrey L. Williams	P	Western Digital Corporation	Jeffrey.L.Williams@wdc.com
Mr. Paul Anderson	O	Western Digital Corporation	paul.m.anderson@wdc.com
Mr. Masahiro Ito	V	Yamagata Fujitsu Ltd.	mike@yfl.cs.fujitsu.co.jp

51 People Present

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

Enclosure(2) -- T10 Attendance Database

Generated on 1999/09/20 at 13:46:44

Mr. Lawrence J. Lamers (P) Phone: (408) 957-7817
Adaptec, Inc. Fax: (408) 957-7193
691 S. Milpitas Blvd. Email: ljlammers@ieee.org
Milpitas, CA 95035

Mr. Vincent Bastiani (A#) Phone: (408) 957-7153
Adaptec, Inc. Fax:
691 S. Milpitas Blvd. Email: bastiani@corp.adaptec.com
Milpitas, CA 95035

Mr. Wally Bridgewater (A#) Phone: (408) 945-8600
Adaptec, Inc. Fax:
691 S. Milpitas Blvd. Email: wally@eng.adaptec.com
Milpitas, CA 95035

Mr. Mark Delsman (A) Phone: (408) 957-5661
Adaptec, Inc. Fax:
691 S. Milpitas Blvd. Email: mdelsman@corp.adaptec.com
Milpitas, CA 95035

Mr. Tariq Abou-Jeyab (O) Phone: (408) 957-1511
Adaptec, Inc. Fax: (408) 945-6736
691 South Milpitas Blvd. Email: tajeyab@corp.adaptec.com
M/S 135
Milpitas, CA 95035

Mr. Robert Frey (P) Phone: (408) 383-5715
Advansys Fax: (408) 383-9612
1150 Ringwood Ct. Email: bobf@advansys.com
San Jose, CA 95131

Mr. Steven P. Ego (O) Phone: (512) 258-2303
Aeronics Inc. Fax: (512) 258-4392
12741 Research Blvd #500 Email:
Austin, TX 78759

Mr. Kent Manabe (O) Phone: (408) 441-9232
America Kotobuki Electronics Fax: (408) 441-9246
100 Century Center Ct. #310 Email: manabe@ix.netcom.com
San Jose, CA 95112

Mr. Charles Brill (P) Phone: (717) 533-1279
AMP, Inc. Fax: (717) 520-9090
112 Harvey Rd. Email: cebrill@ix.netcom.com
Hershey, PA 17033

Mr. R. Scott Good (A) Phone: (717) 592-3469
AMP, Inc. Fax:

MS 258-30
P.O. Box 3608
Harrisburg, PA 17105-3608

Email: rsgood@amp.com

Ms. Bonnie Rose (O)
Amphenol Canada Corp.
20 Melford Dr.
Scarborough, Ontario
Canada M1B 2X6

Phone: (416) 291-4401 x2239
Fax: (416) 292-0647
Email: brose@cosmosgroup.com

Mr. Bill Mable (P)
Amphenol Interconnect
20 Valley St.
Endicott, NY 13760

Phone: (607) 786-4236
Fax: (607) 786-4311
Email: bmable@spectra.net

Mr. Michael Wingard (A)
Amphenol Interconnect
20 Valley St.
Endicott, NY 13760

Phone: (607) 786-4241
Fax: (607) 786-4311
Email: mikwingard@aol.com

Mr. Bart Raudebaugh (P)
Ancot Corp.
115 Constitution Dr.
Menlo Park, CA 94025

Phone: (415) 322-5322
Fax: (415) 322-0455
Email: bart@ancot.com

Mr. Gregg Neely (P)
Andataco
10140 Mesa Rim Rd.
San Diego, CA 92121

Phone: (619) 453-9696
Fax: (619) 453-9294
Email: greggn@andataco.com

Mr. Harlan Andrews (P)
Apple Computer
6 Infinite Loop MS 306-2MS
Cupertino, CA. 95014

Phone: (408) 974-6430
Fax: (408) 862-7577
Email: hea@apple.com

Mr. James R. Bergsten (O)
Ark Research Corp.
1190 Saratoga Ave. #110
San Jose, CA 95129-3433

Phone: (408) 260-5900
Fax: (408) 260-5908
Email: bergsten@arkres.com

Mr. Douglas Wagner (P)
Berg Electronics
472 Delwood Ct.
Newbury Park, CA 91320-4819

Phone: (805) 498-0325
Fax: (805) 498-0325
Email: wagnerdl@bergelect.com

Mr. Jim Koser (A)
Berg Electronics
825 Old Trail Road
Etters, PA 17319

Phone: (717) 938-7679
Fax: (717) 938-7991
Email:

Mr. Bill Galloway (P)

Phone: (281) 530-3063

BREA Technologies, Inc.
14902 Mesita Dr.
Houston, TX 77083

Fax: (281) 988-0358
Email: billg@breatech.com

Mr. Joseph Basista (O)
C&M Corp.
49 Middle Road
Owego, NY 13827

Phone: (607) 687-1044
Fax: (607) 687-7534
Email: joebasista@aol.com

Mr. Gerry Johnsen (O)
Ciprico Inc.
2800 Campus Dr. Suite 60
Plymouth, MN 55441

Phone: (612) 551-4000
Fax: (612) 551-4002
Email: gerry@ciprico.com

Mr. Ian Morrell (P)
Circuit Assembly Corp.
18 Thomas St.
Irvine, CA 92718-2703

Phone: (949) 598-1780
Fax: (949) 855-4298
Email: ianm@circuitassembly.com

Mr. Dennis Lang (A)
Circuit Assembly Corp.
18 Thomas St.
Irvine, CA 92718-2703

Phone: (949) 855-7887
Fax: (949) 855-4298
Email: dennisl@circuitassembly.com

Mr. Ben Chang (O)
Cirrus Logic Inc.
3100 W. Warren Ave.
Fremont, Ca 94538

Phone: (510) 226-2394
Fax:
Email: ben@corp.cirrus.com

Mr. Edward Haske (P)
CMD Technology
1 Vanderbilt
Irvine, CA 92718

Phone: (949) 454-0800
Fax: (949) 455-1656
Email: haske@cmd.com

Mr. Robert C. Elliott (P)
Compaq Computer Corp.
MS 120810
PO Box 692000
Houston, TX 77269-2000

Phone: (281) 518-5037
Fax: (281) 518-7135
Email: Robert.Elliott@compaq.com

Mr. William Dallas (A#)
Compaq Computer Corp.
ZK03-3/T79
110 Spit Brook Road
Nashua, NH 03062-2698

Phone: (603) 884-2508
Fax: (603) 884-2257
Email: dallas@zk3.dec.com

Mr. Douglas Hagerman (A#)
Compaq Computer Corp.
SHR3-2/W3
334 South Street
Shrewsbury, MA 01545

Phone: (508) 841-2145
Fax: (508) 841-6100
Email: douglas.hagerman@compaq.com

Dr. William Ham (A) Phone: (508) 841-2629
Compaq Computer Corp. Fax: (508) 841-5266
SHR3-2/W04 Email: bill.ham@digital.com
334 South Street
Shrewsbury, MA 01545

Mr. Mike Zandy (A#) Phone: (281) 518-7930
Compaq Computer Corp. Fax:
MS 640222 Email: Mike.Zandy@compaq.com
PO Box 692000
Houston, TX 77269-2000

Mr. Peter Johansson (O) Phone: (510) 527-3926
Congruent Software, Inc. Fax: (510) 531-2942
3998 Whittle Ave. Email: pjohansson@aol.com
Oakland, CA 94602

Mr. Neil Wanamaker (P) Phone: (512) 794-2727
Crossroads Systems, Inc. Fax: (512) 349-0304
9390 Research Blvd. Email: ntw@crossroads.com
Suite II-300
Austin, TX 78759

Mr. Stephen K. Wilson (A) Phone: (512) 794-2716
Crossroads Systems, Inc. Fax:
9390 Research Blvd. Email: steve@crossroads.com
Suite II-300
Austin, TX 78759

Mr. Charles Tashbook (P) Phone: (972) 371-4110
Dallas Semiconductor Fax: (972) 371-3715
4401 S. Beltwood Pkwy. Email: charles.tashbook@dalsemi.com
Dallas, TX 75244-3292

Mr. Michael Smith (A) Phone: (972) 371-4457
Dallas Semiconductor Fax: (214) 450-3715
4401 S. Beltwood Pkwy. Email: mike.smith@dalsemi.com
Dallas, TX 75244

Mr. Bill Anderson (O) Phone: (408) 980-8344
DDK Electronics Fax: (408) 980-9750
3001 Oakmead Village Dr. Email: bill_anderson@ddkconnectors.com
Santa Clara, CA 95051

Mr. Ricardo Dominguez (P) Phone: (512) 728-8996
Dell Computer Fax: (512) 728-3653
One Dell Way Email: ricardo_dominguez@dell.com
Round Rock, TX 78682

Mr. James Benfer (O) Phone: (301) 498-0200
Digi-Data Corp. Fax:
8580 Dorsey Run Road Email:
Jessup, MD 20794

Mr. Roger Cummings (P)
Distributed Processing Tech.
140 Candace Dr.
Maitland, FL 32751
Phone: (407) 830-5522 x348
Fax: (407) 260-5366
Email: cummings_roger@dpt.com

Mr. Mike Gerwig (A)
Distributed Processing Tech.
140 Candace Dr.
Maitland, FL 32751
Phone: (407) 830-5522 x380
Fax: (407) 260-5366
Email: gerwig@dpt.com

Mr. Ed Kavetsky (A#)
Distributed Processing Tech.
140 Candace Dr.
Maitland, FL 32751
Phone: (407) 830-5522 x344
Fax: (407) 260-5366
Email: kavetsky@dpt.com

Mr. Robert Reisch (O)
Eastman Kodak Co.
460 Buffalo Road
Rochester, NY 14652-3816
Phone: (716) 588-0573
Fax: (716) 588-2624
Email: reisch@kodak.com

Mr. Terry Maezawa (O)
Electronic&Ind. Enterprises
Suite 216
21 Eastbrook Bend
Peachtree City, GA 30269
Phone: (404) 487-5815
Fax:
Email:

Mr. I. Dal Allan (P)
ENDL
14426 Black Walnut Ct.
Saratoga, CA 95070
Phone: (408) 867-6630
Fax: (408) 867-2115
Email: endlcom@ibm.net

Mr. Tom Jackson (O)
Exabyte Corp.
1685 38th Street
Boulder, CO 80301
Phone: (303) 417-7201
Fax: (303) 417-7829
Email: thomasj@exabyte.com

Mr. Julian Ferry (O)
Foxconn
140 Coffeetown Rd.
Dillsburg, PA 17019
Phone: (717) 502-0784
Fax: (717) 502-1474
Email: julferry@aol.com

Mr. Stephen Jarvis (O)
Foxconn
6125 Phyllis Drive
Cypress, CA 90630
Phone: (714) 890-8628 x230
Fax: (714) 892-8668
Email:

Mr. Don Soracco (O)
Foxconn I/O
60 Pond St.
Dunstable, MA 01827
Phone: (978) 649-9997
Fax: (978) 649-9797
Email:

Mr. Gary R. Stephens (A) Phone: (520) 321-1725
FSI Consulting Services Fax: (520) 321-1725
1825 N. Norton Email: grsfsi@aol.com
Tucson, AZ 85719

Mr. Eugene Lew (P) Phone: (408) 894-3874
Fujitsu Fax:
2904 Orchard Pkwy Email: elew@fcpa.fujitsu.com
San Jose, CA 95134

Mr. Ben-Koon Lin (A) Phone: (408) 894-3979
Fujitsu (FCPA) Fax: (408) 894-3908
2904 Orchard Pkwy. Email: blin@fcpa.fujitsu.com
San Jose, CA 95134

Mr. Kazuo Nakashima (O) Phone: (408) 894-3849
Fujitsu Computer Products,Am Fax: (408) 894-3907
2904 Orchard Parkway Email: knakashima@fcpa.fujitsu.com
San Jose, CA 95134

Mr. Bob Thornton (O) Phone: (408) 745-4932
Fujitsu Takamisawa America Fax: (408) 745-4971
250 E. Caribbean Dr. Email: bthornto@fta.fujitsu.com
Sunnyvale, CA 94089

Mr. Nathan Hastad (P) Phone: (612) 921-6635
General Dynamics Fax: (612) 921-6345
8800 Queen Ave. S. Email: nathan.j.hastad@gd-is.com
Bloomington, MN 55431

Mr. Tim Mackley (A) Phone: (612) 921-6866
General Dynamics Fax:
8800 Queen Ave. S. Email: timothy.a.mackley@gd-is.com
Bloomington, MN 55431

Mr. Pak Chan (O) Phone: (408) 481-3030
Gigalabs Inc. Fax: (408) 481-3045
290 Santa Ana Court Email: pchan@giglabs.com
Sunnyvale, CA 94086

Ms. Liza Hunt (XO) Phone:
Global Engineering Documents Fax:
15 Inverness Way East Email:
Englewood, CO 80112-5704

Mr. Rodger Burke (O) Phone: (847) 741-1500 x286
Harting, Inc. of N. America Fax: (847) 741-8257
1370 Bowes Road Email: Rodger.Burke@harting.com

Elgin, IL 60123

Mr. J. R. Sims (P)
Hewlett Packard Co.
800 S. Taft Ave.
Loveland, CO 80537
Phone: (970) 635-6774
Fax: (970) 635-6610
Email: robsims@hootie.lvld.hp.com

Mr. Matt Wakeley (A)
Hewlett Packard Co.
8000 Foothills Blvd.
Roseville, CA 95747
Phone: (916) 785-4259
Fax: (916) 785-1997
Email: matt_wakeley@hp.com

Mr. Donald C. Loughry (XO)
Hewlett Packard Co.
M/S 43UC NCITS Vice Chair
19420 Homestead Rd.
Cupertino, CA 95014
Phone: (408) 447-2454
Fax: (408) 447-2247
Email: don_loughry@hp6600.desk.hp.com

Mr. Brad Culp (O)
Hewlett Packard Co.
700 71st. Ave.
Greeley, CO 80631
Phone: (970) 350-4592
Fax: (970) 352-3524
Email: brad-culp@hp.com

Mr. Steve Krupa (O)
Hewlett Packard Co.
Filton Road
Stoke Gifford
Bristol BS12 6QZ England
Phone:
Fax:
Email:

Ms. Jacqueline Sylvia (A)
Hitachi Cable Manchester
900 Holt Ave.
Manchester, NH 03109
Phone: (603) 669-4347
Fax:
Email: jsylvia@hcm.hitachi.com

Mr. Zane Daggett (P)
Hitachi Cable Manchester, Inc
900 Holt Ave.
Manchester, NH 03109
Phone: (603) 669-4347 x236
Fax: (603) 669-9621
Email: zdaggett@hcm.hitachi.com

Mr. Paul Boulay (O)
Hitachi Computer Systems Div
3101 Tasman Drive
Santa Clara, CA 95054
Phone: (408) 986-9770 x205
Fax: (408) 986-1821
Email: p_boulay@hitachi.com

Mr. Hitoshi Ogawa (O)
Hitachi Ltd.
Systems Development Lab
292 Yoshida-Cho
Yokohama-Shi 244 Japan
Phone: 1181-45881-1241
Fax: 1181-45860-1674
Email: hogawa@yokolab.sdl.hitachi.co.jp

Mr. Anthony Yang (P)
Hitachi Storage Products
Phone: (408) 941-7048
Fax: (408) 946-1062

1971 Milmont Drive
Milpitas, CA 95035

Email: anthony.yang@hal.hitachi.com

Mr. Quang Vuong (A)
Hitachi Storage Products
3101 Tasman Drive M/S 75
Santa Clara, CA 95054

Phone: (408) 748-2806
Fax: (408) 235-8942
Email: vuong_q@halsp.hitachi.com

Mr. Thomas J. Kulesza (P)
Honda Connectors
960 Corporate Woods Parkway
Vernon Hill, IL 60061

Phone: (847) 913-9566
Fax: (847) 913-9587
Email: tkulesza@hondaconnectors.com

Mr. Terry Enright (A)
Honda Connectors
960 Corporate Woods Parkway
Vernon Hill, IL 60061

Phone: (847) 913-9566
Fax: (847) 913-9587
Email:

Mr. George O. Penokie (P)
IBM Corp.
2B7/114-2
37st Highway 52 N.
Rochester, MN 55901-7829

Phone: (507) 253-5208
Fax: (507) 253-2880
Email: gop@us.ibm.com

Mr. Dan Colegrove (A#)
IBM Corp.
LJ4/012
5600 Cottle Rd.
San Jose, CA 95193

Phone: (408) 256-1978
Fax: (408) 256-1044
Email: colegrov@us.ibm.com

Mr. John P. Scheible (A)
IBM Corp.
Bldg 815 MS 4051
11400 Burnett Rd.
Austin, TX 78758

Phone: (512) 823-8208
Fax: (512) 823-0758
Email: Scheible@vnet.ibm.com

Mr. Robert Basham (O)
IBM Corp.
65U/031-Z
9000 S. Rita Rd.
Tucson, AZ 85744

Phone: (520) 799-4923
Fax:
Email: robbyb@us.ibm.com

Mr. Tim Bradshaw (P)
Iomega Corp.
1821 Iomega Way
Roy, UT 84067

Phone: (801) 778-4262
Fax: (801) 778-4170
Email: bradshat@iomega.com

Mr. Darrell Redford (A)
Iomega Corp.
1821 West Iomega Way
Roy, UT 84067

Phone: (801) 778-4432
Fax: (801) 778-4170
Email: redfordd@iomega.com

Mr. David L. Jolley (A#)

Phone: (801) 778-3641

Iomega Corporation
1821 West Iomega Way
Roy, UT 84067

Fax: (801) 778-5261
Email: jolley@iomega.com

Mr. Dennis Moore (P)
KnowledgeTek, Inc.
7230 West 119th Pl, Suite C
Broomfield, CO 80020

Phone: (303) 465-1800
Fax: (303) 426-1350
Email: dmoore@ix.netcom.com

Mr. Hayden Smith (O)
Lasercard Systems Corp.
2644 Bayshore Parkway
Mountain View, CA 94043

Phone: (650) 969-4428
Fax: (650) 967-6524
Email: hsmith@lasercard.com

Mr. Louis Grantham (P)
Linfinity Micro
101 W. McDermott
Allen, TX 75013

Phone: (972) 396-7002
Fax: (972) 396-7533
Email: lgrantham@linfinity.com

Mr. John Lohmeyer (P)
LSI Logic Corp.
4420 ArrowsWest Dr.
Colorado Springs, CO 80907

Phone: (719) 533-7560
Fax: (719) 533-7183
Email: lohmeier@t10.org

Mr. Ralph O. Weber (A)
LSI Logic Corp.
Suite 400
12377 Merit Drive
Dallas, TX 75251

Phone: (972) 503-3205 x228
Fax: (972) 503-2258
Email: roweber@acm.org

Ms. Jie Fan (P)
Madison Cable Corp.
125 Goddard Memorial Dr.
Worcester, MA 01603

Phone: (508) 752-2884 x306
Fax: (508) 752-4230
Email: jfan@madisoncable.com

Mr. Chuck Grant (A)
Madison Cable Corp.
125 Goddard Memorial Drive
Worcester, MA 01603

Phone: (508) 752-2884 x725
Fax: (508) 752-4230
Email: cgrant@madisoncable.com

Mr. Takaharu Ai (O)
Matsushita Elec. Indust. Co.
4-16-12
Matsuo-cho
Kadoma, Osaka 571-8504 Japan

Phone: +81-6-6906-2330
Fax: +81-6-906-1549
Email: aiai@dsd.mei.co.jp

Mr. Hiroshi Ueda (O)
Matsushita Electric
1006 Kadoma Kadoma-shi
Osaka, Japan

Phone: +81-6-6900 9259
Fax:
Email: hueda@isl.mei.co.jp

Mr. Pete McLean (P) Phone: (303) 678-2149
Maxtor Corp. Fax: (303) 678-2165
2190 Miller Dr. Email: pete_mclean@maxtor.com
Longmont, CO 80501

Mr. Charley Riegger (A) Phone: (408) 432-4571
Maxtor Corp. Fax: (408) 432-4432
510 Cottonwood Dr. Email: charles_riegger@maxtor.com
Milpitas, CA 95035

Mr. LeRoy Leach (O) Phone: (303) 678-2828
Maxtor Corp. Fax: (303) 678-2308
2190 Miller Dr. Email: leroy_leach@maxtor.com
Longmont, CO 80501-6744

Mr. Randy Banton (O) Phone: (508) 256-1300 x134
Mercury Computer Fax:
199 Riverneck Road Email:
Chelmsford, MA 01824

Mr. Bob Masterson (O) Phone: (708) 867-9600
Methode Electronics, Inc. Fax: (708) 867-3149
7444 West Wilson Ave Email: rwmast@methode.com
Chicago, IL 60656

Mr. Joe Dambach (P) Phone: (708) 527-4546
Molex Inc. Fax: (708) 969-1352
2222 Wellington Court Email: jdambach@molex.com
Lisle, IL 60532

Mr. Jay Neer (A) Phone: (561) 447-2907
Molex Inc. Fax: (561) 447-2908
399 W. Camino Gardens Blvd. Email: jneer@molex.com
Suite 103
Boca Raton, FL 33432

Mr. Martin Ogbuokiri (O) Phone: (630) 527-4370
Molex Inc. Fax: (630) 969-1352
2222 Wellington Court Email: mogbuokiri@molex.com
Data Comm
Lisle, IL 60532

Mr. Richard Wagner (O) Phone: (508) 791-3161
Montrose/CDT Fax: (508) 798-8353
28 Sword Street Email: rwagner@montrose-cdt.com
Auburn, MA 01501

Mr. Brian McKean (P) Phone: (303) 381-4246
Mylex Corp. Fax: (303) 413-0464
4900 Pearl East Circle #104 Email: brianm@mylexboulder.com
Boulder, CO 80301-6108

Mr. Allen King (A) Phone: (510) 608-2251
Mylex Corp. Fax: (510) 797-4907
34551 Arderwood Blvd. Email: allenk@mylex.com
Fremont, CA 94555-3607

Mr. Edward A. Gardner (P) Phone: (719) 593-8866
Ophidian Designs Fax: (719) 593-8989
1262 Hofstead Terrace Email: eag@ophidian.com
Colorado Springs, CO 80907

Mr. Han Zou (P) Phone: (609) 734-7326
Panasonic Technologies, Inc Fax: (609) 987-8827
2 Research Way Email: hanzou@research.panasonic.com
Princeton, New Jersey 08540

Dr. Terry Nelson (A) Phone: (609) 734-7324
Panasonic Technologies, Inc Fax: (609) 987-8827
2 Research Way Email: tnelson@research.panasonic.com
Princeton, NJ 08540

Mr. William P. McFerrin (P) Phone: (303) 651-5408
Philips Electronics Fax: (303) 682-3029
1860 Lefthand Circle Email: BMcFerrin@aol.com
Longmont, CO 80501

Mr. Randall C. Hines (A) Phone: (303) 651-5406
Philips Electronics Fax: (303) 682-3029
1860 Lefthand Circle Email: hinesr@worldnet.att.net
Longmont, CO 80501

Mr. Skip Jones (P) Phone: (714) 668-5058
QLogic Corp. Fax: (714) 688-5008
3545 Harbor Blvd. Email: sk_jones@qlc.com
Costa Mesa, CA 92626

Mr. Richard Moore (A#) Phone: (714) 668-6816
QLogic Corp. Fax:
3545 Harbor Blvd. Email: r_moore@qlc.com
Costa Mesa, CA 92626

Mr. Dean Wallace (A) Phone: (714) 668-5028
QLogic Corp. Fax: (714) 668-5095
3545 Harbor Blvd. Email: d_wallace@qlc.com
Costa Mesa, CA 92675

Mr. Mark Evans (P) Phone: (408) 894-4019
Quantum Corp. Fax: (408) 894-4990
500 McCarthy Blvd. Email: mark.evans@quantum.com
Milpitas, CA 95035

Mr. Patrick McGarrah (A) Phone: (508) 770-6364
Quantum Corp. Fax: (508) 770-2299
333 South St. Email: pat.mcgarrah@quantum.com
Shrewsbury, MA 01545

Mr. James McGrath (A#) Phone: (408) 894-4504
Quantum Corp. Fax: (408) 894-6375
500 McCarthy Blvd. Email: JMCGRATH@QNTM.COM
Milpitas, CA 95035

Mr. John A. Fobel (O) Phone: (909) 987-3966
Rancho Technology, Inc. Fax: (909) 989-2365
10783 Bell Court Email: johnf@rancho.com
Rancho Cucamonga, CA 91730

Mr. Ken-Ichi Kojima (O) Phone: 584-64-4399
Sanyo Electric Co., Ltd. Fax: 584-64-5096
180 Ohmori Anpachi-Cho Email:
Anpachi-Gun
Gifu-Ken 503-01 Japan

Mr. Gene Milligan (P) Phone: (405) 324-3070
Seagate Technology Fax: (405) 324-3794
MS OKM 251 Email: Gene_Milligan@notes.seagate.com
P. O. Box 12313
Oklahoma City, OK 73157

Mr. Gerald Houlder (A) Phone: (612) 402-2869
Seagate Technology Fax: (612) 402-3471
Mailstop SHK231 Email: gerry_houlder@notes.seagate.com
1280 Disc Drive
Shakopee, MN 55379-1863

Mr. Daniel (Dan) F. Smith (O) Phone: (408) 439-7146
Seagate Technology Fax: (408) 438-4846
4585 Scotts Valley Dr. Email: daniel_f_smith@notes.seagate.com
Scotts Valley, CA 95066-4544

Mr. Yasunori Hiyoshi (O) Phone:
Seiko Epson Corp. Fax:
Corporate Res & Dev Email: yasunori.hiyoshi@exc.epson.co.jp
3-3-5 Owa Suma-Shi
Nagano-Ken 392-8502 Japan

Mr. Erhard Weiss (O) Phone: 49-821-804-3602
Siemens Nixdorf Fax: 49-821-804-2910
Department: SNI PC SB ESW Email: weiss.abg@sni.de
Burgermeister-Ulrich-St
D-86199 Augsburg Germany

Mr. James Ryland (L) Phone: (410) 965-2166
Social Security Admin Fax: (410) 966-1893
NCC Room 5110 OMC liaison Email: JRYLAND@SSA.SSW.DHHS.GOV

6201 Security Blvd.
Baltimore, MD 21234-0001

Mr. Greg Alvey (O) Phone: (408) 338-4285
Solution Technology Fax: (408) 338-4374
P.O. Box 104 Email: kd6hnm@aol.com
Boulder Creek, CA 95006

Mr. Dennis Pak (O) Phone: (408) 955-5247
Sony Electronics, Inc. Fax: (408) 955-5066
3300 Zanker Rd. MS# SJ-3B2 Email: dennis_pak@asd.sel.sony.com
San Jose, CA 95134

Mr. Jeffrey Schroeder (O) Phone: (408) 487-3965
ST Microelectronics Fax: (408) 441-8470
1060 E. Brokaw Rd. Email: jeffrey.schroeder@st.com
San Jose, CA 95131

Mr. Rich Wahler (O) Phone: (516) 435-6174
Standard Microsystems Corp. Fax: (516) 724-1505
300 Kennedy Drive Email:
Hauppauge, NY 11788

Mr. Erich Oetting (P) Phone: (303) 673-2178
Storage Technology Corp. Fax: (303) 673-8196
2270 South 88th St. Email: erich_oetting@stortek.com
Louisville, CO 80028-0268

Mr. Doug Charnley (A) Phone: (303) 661-7271
Storage Technology Corp. Fax: (303) 673-8196
2270 South 88th St. MS 0211 Email: doug_chnarnley@stortek.com
Louisville, CO 80028-0211

Mr. David Peterson (O) Phone: (612) 391-1008
StorageTek Network Sys. Grp Fax: (612) 391-1095
7600 Brooklyn Blvd. Email: dap@network.com
Brooklyn Park, MN 55428

Mr. Robert N. Snively (P) Phone: (510) 574-9051
Sun Microsystems Computer Co Fax: (510) 574-9504
Mail Stop NWK04-104 Email: bob.snively@sun.com
901 San Antonio Road
Palo Alto, CA 94303-4900

Mr. Franklin Ng (A) Phone: (510) 574-9195
Sun Microsystems Computer Co Fax: (510) 574-9501
MS NWK02-101 Email: franklin.ng@ebay.sun.com
901 San Antonio Rd.
Palo Alto, CA 94303

Mr. Vit Novak (A) Phone: (650) 688-9033
Sun Microsystems, Inc. Fax: (650) 688-9265

Mail Stop 15-46
2550 Garcia Ave.
Mountain View, CA 94043-1100

Email: vit.novak@sun.com

Mr. Pete Tobias (A#)
Tandem, a Compaq Company
Loc 100-03
10555 Ridgeview Ct.
Cupertino, CA 95014-0789

Phone: (408) 285-9913
Fax: (408) 285-9924
Email: tobias_pete@tandem.com

Mr. Ken Plourde (O)
Temp Flex Cable, Inc.
11 Depot St.
S. Grafton, MA 01560

Phone: (508) 839-5987
Fax: (508) 839-4128
Email: kplourde@templex.com

Mr. Robert Morris (P)
Texas Instruments
14351 Myford Rd.
Tustin, CA 92780

Phone: (714) 573-6616
Fax:
Email: bob.morris@ti.com

Mr. Stephen G. Finch (A)
Texas Instruments
14351 Myford Road
Tustin, CA 92780-7022

Phone: (714) 573-6808
Fax: (714) 573-6916
Email: steve.finch@tus.ssil.com

Mr. Paresh Sheth (O)
Texas Instruments
14351 Myford Rd.
Tustin, CA 92780

Phone: (714) 573-6156
Fax: (714) 573-6916
Email: paresh.sheth@ti.com

Ms. Dora M. Deivert (O)
The JPM Company
2135 Ringwood Ave.
San Jose, CA 95131

Phone: (408) 952-3510
Fax: (408) 435-9775
Email: dmdeivert@jpmsj.com

Mr. Bill Youngman (O)
The JPM Company
2135 Ringwood Ave.
San Jose, CA 95131

Phone: (408) 952-3503
Fax: (408) 435-1109
Email: byoungman@jpmsj.com

Mr. Fred Hooper (O)
Thomas & Betts
5 Honeysuckle Dr.
Norwalk, CT 06851

Phone: (203) 840-0583
Fax: (203) 840-0587
Email: fred_hooper@tnb.com

Mr. Davin Stockwell (O)
Thomas & Betts Corp.
Electronics Division
Irvine, CA 92618

Phone: (714) 951-6621 x3433
Fax: (714) 951-1016
Email: dstockwell@thombetts.com

Mr. Tasuku Kasebayashi (P)

Phone: (949) 461-3886

Toshiba America Elec. Comp. Fax: (949) 458-7815
35 Hammond Email: task.kasebayashi@taec.toshiba.com
Irvine, CA 92618-1607

Mr. Kenneth J. Hallam (P) Phone: (949) 380-5115
UNISYS Corporation Fax: (949) 380-5858
MV201 Email: ken.hallam@unisys.com
25725 Jeronimo Road
Mission Viejo, CA 92691

Mr. Arlan P. Stone (A) Phone: (949) 380-5982
UNISYS Corporation Fax: (949) 380-5858
MS 201 Email: arlan.stone@unisys.com
25725 Jeronemo Rd.
Mission Viejo, CA 92691

Mr. Dave Wehrman (O) Phone: (313) 426-8847
UNISYS Corporation Fax: (313) 426-8847
11716 Highridge Email: dave.wehrman2@unisys.com
Pinckney, MI 48169

Mr. Paul D. Aloisi (P) Phone: (603) 429-8687
Unitrode Corporation Fax: (603) 429-8963
MS: 84 Email: aloisi@unitrode.com
7 Continental Blvd
Merrimack, NH 03054

Mr. Donald R. Getty (A) Phone: (408) 246-3100 x41
Unitrode Corporation Fax: (408) 246-3101
Suite 220 Email: gettd@unitrode.com
4010 Moorpark Ave.
San Jose, CA 95117-1843

Mr. Marq Elliott (O) Phone: (408) 662-7900
Verisys Fax:
335-H Spreckels Dr. Email:
Aptos, CA 95003

Mr. Michael G. Kaminski (O) Phone: (408) 945-7766
Volex Inc. Fax: (408) 945-4360
835 Sinclair Frontage Road Email: Mike_Kaminski@volex.com
Milpitas, CA 95035

Mr. Praveen Viraraghavan (A) Phone: (507) 286-7668
Western Digital Corp. Fax: (507) 286-7079
1599 N Broadway Email: Praveen.Viraraghavan@wdc.com
Rochester, MN 55906

Mr. Jeffrey L. Williams (P) Phone: (507) 286-7589
Western Digital Corporation Fax: (507) 536-8089
1599 N. Broadway Ave. Email: Jeffrey.L.Williams@wdc.com
Rochester, MN 55906

Enclosure(3) -- T10 Document Database

Generated on 1999/09/20 at 13:46:03

T10/99-001R0	Date: 1999/03/18	Author: John Lohmeyer	Mailing: 1999_1
Agenda for T10 Meeting #31 (May '99)			
T10/99-001R1	Date: 1999/03/24	Author: John Lohmeyer	Mailing: 1999_1
Agenda for T10 Meeting #31 (May '99)			
T10/99-002R0	Date: 1999/03/18	Author: John Lohmeyer	Mailing: 1999_1
T10 Project Summary - Mar '99			
T10/99-003R0	Date: 1999/03/18	Author: John Lohmeyer	Mailing: 1999_1
Jeopardy letter for May '99 meeting			
T10/99-004R0	Date: 1999/05/14	Author: John Lohmeyer	Mailing: 1999_2
Agenda for T10 Meeting #32 (July '99)			
T10/99-005R0	Date: 1999/05/11	Author: John Lohmeyer	Mailing: 1999_2
T10 Project Summary - May '99			
T10/99-006R0	Date: 1999/05/11	Author: John Lohmeyer	Mailing: 1999_2
Jeopardy letter for July '99 meeting			
T10/99-007R0	Date: 1999/07/23	Author: John Lohmeyer	Mailing: 1999_3
Agenda for T10 Meeting #33 (September '99)			
T10/99-008R0	Date: 1999/07/26	Author: John Lohmeyer	Mailing: 1999_3
T10 Project Summary - July '99			
T10/99-009R0	Date: 1999/07/26	Author: John Lohmeyer	Mailing: 1999_3
Jeopardy letter for September '99 meeting			
T10/99-010R0	Date: 1999/06/03	Author: John Lohmeyer	Mailing: 1999_3
Letter Ballot on forwarding SSC to first public review			
T10/99-011R0	Date: 1999/07/06	Author: John Lohmeyer	Mailing: 1999_3
Results of letter ballot 99-010 on forwarding SSC			
T10/99-011R1	Date: 1999/07/06	Author: John Lohmeyer	Mailing: 1999_3
Results of letter ballot 99-010 on forwarding SSC			
T10/99-011R2	Date: 1999/07/10	Author: John Lohmeyer	Mailing: 1999_3
Results of letter ballot 99-010 on forwarding SSC			
T10/99-101R0	Date: 1998/12/04	Author: Ron Roberts	Mailing: 1999_1
Minutes of MMC-2 Working Group - 11/30 - 12/2/98			
T10/99-102R0	Date: 1998/12/08	Author: Larry Lamers	Mailing: 1999_1
Unexpected Bus Free Timeout Function			
T10/99-102R1	Date: 1999/01/25	Author: Larry Lamers	Mailing: 1999_1
UBF Timeout Function			
T10/99-102R2	Date: 1999/01/27	Author: Larry Lamers	Mailing: 1999_1
Synchronous Transfer Timeout Function			
T10/99-102R3	Date: 1999/01/28	Author: Larry Lamers	Mailing: 1999_1
STT Timeout Function			

T10/99-102R4 Date: 1999/02/05 Author: Larry Lamers Mailing: 1999_1
STT Timeout Function

T10/99-102R5 Date: 1999/03/10 Author: Larry Lamers Mailing: 1999_1
STT Timeout Function

T10/99-103R0 Date: 1998/12/17 Author: John Lohmeyer Mailing: 1999_1
Minutes of SPI-3 Working Group - January 26-27, 1999

T10/99-104R0 Date: 1999/01/10 Author: George Penokie Mailing: 1999_1
Message Information Unit Definition

T10/99-104R1 Date: 1999/03/09 Author: George Penokie Mailing: 1999_1
Message Information Unit Definition

T10/99-105R0 Date: 1999/01/06 Author: Stewart Wyatt Mailing: 1999_1
Minutes of Fibre Channel Tape Profile Meeting - 12/16/98

T10/99-106R0 Date: 1999/01/06 Author: Penman, Mottahedin, Nazir, & Moore Mailing: 1999_1
Case Study: Fast-80 Setup and Hold Timings

T10/99-107R0 Date: 1998/12/10 Author: ISO/IEC JTC 1/SC 25 Mailing: 1999_1
Optical Memory Card Device Commands (SCSI OMC)

T10/99-108R0 Date: 1999/01/07 Author: John Lohmeyer Mailing: 1999_1
Clarification of interaction of SDTR/WDTR messages with PPR message

T10/99-108R1 Date: 1999/01/27 Author: John Lohmeyer Mailing: 1999_1
Clarification of interaction of SDTR/WDTR messages with PPR message

T10/99-108R2 Date: 1999/02/09 Author: John Lohmeyer Mailing: 1999_1
Clarification of interaction of SDTR/WDTR messages with PPR message

T10/99-108R3 Date: 1999/03/09 Author: John Lohmeyer Mailing: 1999_1
Clarification of interaction of SDTR/WDTR messages with PPR message

T10/99-109R0 Date: 1999/01/07 Author: John Lohmeyer Mailing: 1999_1
Clarification of MODIFY DATA POINTER message

T10/99-110R0 Date: 1999/01/07 Author: Gene Milligan Mailing: 1999_1
SCSI Version Proposal Flavor Two for SPC-2

T10/99-110R1 Date: 1999/03/04 Author: Gene Milligan Mailing: 1999_1
SCSI Version Proposal Flavor Two for SPC-2

T10/99-110R2 Date: Author: Gene Milligan Mailing: 1999_1
SCSI Version Proposal Flavor Two for SPC-2

T10/99-111R0 Date: 1999/01/26 Author: Zane Daggett Mailing: 1999_1
Recommended changes to SPI-3 Tables

T10/99-111R1 Date: 1999/05/11 Author: Zane Daggett Mailing: 1999_3
Recommended for content in SPI-3 relating to cable performance

T10/99-111R3 Date: 1999/06/15 Author: Zane Daggett Mailing: 1999_3

Recommendations for content in SPI-3 relating to cable performance

T10/99-111R4 Date: 1999/07/28 Author: Bill Ham Mailing: 1999_4
Recommendations for content in SPI-3 relating to cable performance

T10/99-111R5 Date: 1999/08/31 Author: Bill Ham Mailing: 1999_4
Recommendations for content in SPI-3 relating to cable performance

T10/99-111R6 Date: 1999/09/13 Author: Bill Ham Mailing: 1999_4
Recommendations for content in SPI-3 relating to cable performance

T10/99-112R0 Date: 1999/01/22 Author: Bill Galloway Mailing: 1999_1
Synchronous ATN timing

T10/99-112R1 Date: 1999/03/07 Author: Bill Galloway Mailing: 1999_1
Synchronous ATN timing

T10/99-112R2 Date: 1999/03/13 Author: Bill Galloway Mailing: 1999_1
Synchronous ATN timing

T10/99-113R0 Date: 1999/01/22 Author: Bill Galloway Mailing: 1999_1
DiffSense Timing

T10/99-113R1 Date: 1999/03/07 Author: Bill Galloway Mailing: 1999_1
DiffSense Timing

T10/99-113R2 Date: 1999/03/13 Author: Bill Galloway Mailing: 1999_1
DiffSense Timing

T10/99-114R0 Date: 1999/01/22 Author: Bill Galloway Mailing: 1999_1
LVD Receiver offset voltage

T10/99-115R0 Date: 1999/01/22 Author: Keld Simonsen Mailing: 1999_1
Tips & Techniques for JTC 1 web-based distribution

T10/99-116R0 Date: 1999/01/22 Author: Jie Fan Mailing: 1999_1
Cable Testing Requirements

T10/99-116R1 Date: 1999/01/26 Author: Jie Fan Mailing: 1999_1
Cable Testing Requirements

T10/99-117R0 Date: 1999/01/22 Author: ISO Mailing: 1999_1
ISO's long-range strategies 1999-2001

T10/99-118R0 Date: 1999/01/25 Author: Jim McGrath Mailing: 1999_1
Common CRC for DT and Packetized SCSI

T10/99-119R0 Date: 1999/02/26 Author: Jim McGrath Mailing: 1999_1
Protection for the Asynchronous Information phases (Command, Message, Status)

T10/99-119R1 Date: 1999/03/05 Author: Jim McGrath Mailing: 1999_1
Protection for the Asynchronous Information phases (Command, Message, Status)

T10/99-119R2 Date: 1999/04/06 Author: Mark Evans and Bruce Leshay Mailing: 1999_2
Protection for the Asynchronous Information phases (Command, Message, Status)

T10/99-119R3 Date: 1999/04/21 Author: Mark Evans and Bruce Leshay Mailing: 1999_2

Protection for the Asynchronous Information phases (Command, Message, Status)

T10/99-119R4 Date: 1999/04/23 Author: Mark Evans and Bruce Leshay Mailing: 1999_2

Protection for the Asynchronous Information phases (Command, Message, Status)

T10/99-119R5 Date: 1999/05/28 Author: Mark Evans and Bruce Leshay Mailing: 1999_3

Protection for the Asynchronous Information phases (Command, Message, Status)

T10/99-119R6 Date: 1999/06/21 Author: Mark Evans and Bruce Leshay Mailing: 1999_3

Protection for the Asynchronous Information phases (Command, Message, Status)

T10/99-120R0 Date: 1999/01/22 Author: Gene Milligan Mailing: 1999_1
SCSI ATN Timing Sort of Proposal for SPI-3

T10/99-121R0 Date: 1999/02/10 Author: Rob Sims Mailing: 1999_1
Mt. Fuji Commands for Multimedia Devices

T10/99-122R0 Date: 1999/01/25 Author: Frank Gasparik Mailing: 1999_1
SPI-3 LVD Setup/Hold Time Issues

T10/99-123R0 Date: 1999/01/26 Author: Vince Bastiani Mailing: 1999_1
Setup and Hold Time Measurements

T10/99-124R0 Date: 1999/01/24 Author: Bruce Leshay Mailing: 1999_1
Packetized CRC Proposal

T10/99-125R0 Date: 1999/01/27 Author: Ron Roberts Mailing: 1999_1
Minutes of MMC-2 Working Group - 1/25-27/99

T10/99-126R0 Date: Author: Mailing: Missing
not used

T10/99-127R0 Date: 1999/01/27 Author: Paul Aloisi Mailing: 1999_1
Proposed changes to SPI-3 LVD AC timing diagrams

T10/99-127R1 Date: 1999/01/28 Author: Paul Aloisi Mailing: 1999_1
Proposed changes to SPI-3 LVD AC timing diagrams

T10/99-127R2 Date: 1999/03/09 Author: Paul Aloisi Mailing: 1999_1
LVD Timing Diagram Correction

T10/99-127R3 Date: 1999/03/09 Author: Paul Aloisi Mailing: 1999_1
LVD Timing Diagram Correction

T10/99-127R4 Date: 1999/03/09 Author: Paul Aloisi Mailing: 1999_1
LVD Timing Diagram Correction

T10/99-127R5 Date: 1999/05/05 Author: Paul Aloisi Mailing: 1999_2
LVD Timing Diagram Correction

T10/99-127R6 Date: 1999/05/27 Author: Paul Aloisi Mailing: 1999_3
LVD Timing Diagram Correction

T10/99-127R7 Date: 1999/07/12 Author: Paul Aloisi Mailing: 1999_3
LVD Timing Diagram Correction

T10/99-127R8 Date: 1999/07/13 Author: Paul Aloisi Mailing: 1999_3
LVD Timing Diagram Correction

T10/99-128R0 Date: 1999/02/02 Author: Hayden Smith Mailing: 1999_1
Comments on Draft 14776-381 (SCSI OMC)

T10/99-128R1 Date: 1999/03/16 Author: Hayden Smith Mailing: 1999_1
Comments on Draft 14776-381 (SCSI OMC)

T10/99-129R0 Date: 1999/02/02 Author: Ralph Weber & George Penokie Mailing: 1999_1
Minutes of SPC-2 Working Group - 1/28/99

T10/99-130R0 Date: 1999/02/10 Author: George Penokie Mailing: 1999_1
Changes to INQUIRY

T10/99-130R1 Date: 1999/03/10 Author: George Penokie Mailing: 1999_1
Changes to INQUIRY

T10/99-131R0 Date: 1999/02/05 Author: Tariq Abou-Jeyab Mailing: 1999_1
/ Vince Bastiani
Setup and hold time measurements for Ultra 160/m

T10/99-132R0 Date: 1999/03/07 Author: Bill Galloway Mailing: 1999_1
Removing zero length data transfers with CRC

T10/99-133R0 Date: 1999/03/07 Author: Bill Galloway Mailing: 1999_1
Timing for SCSI RST line

T10/99-134R0 Date: 1999/03/07 Author: Bill Galloway Mailing: 1999_1
PPR Protocol options negotiation

T10/99-134R1 Date: 1999/03/13 Author: Bill Galloway Mailing: 1999_1
PPR Protocol options negotiation

T10/99-135R0 Date: 1999/03/16 Author: Weber & Lohmeyer Mailing: 1999_1
Minutes of SPI-3 Working Group - March 9, 1999

T10/99-135R1 Date: 1999/03/23 Author: Weber & Lohmeyer Mailing: 1999_1
Minutes of SPI-3 Working Group - March 9, 1999

T10/99-136R0 Date: 1999/03/17 Author: Weber & Lohmeyer Mailing: 1999_1
Minutes of SCSI-3 Working Group - March 10, 1999

T10/99-137R0 Date: 1999/03/17 Author: Weber & Lohmeyer Mailing: 1999_1
Minutes of T10 Plenary Meeting #30 - March 11, 1999

T10/99-137R1 Date: 1999/03/23 Author: Weber & Lohmeyer Mailing: 1999_1
Minutes of T10 Plenary Meeting #30 - March 11, 1999

T10/99-138R0 Date: 1999/02/09 Author: Larry Lamers Mailing: 1999_1
Patent Letter for SPI-3 from Adaptec

T10/99-139R0 Date: 1999/03/04 Author: Gene Milligan, George Penokie, & Larry Lamers Mailing: 1999_1
Packet Protocol Extensions

T10/99-139R1 Date: 1999/03/10 Author: Gene Milligan, Mailing: 1999_1

George Penokie,
& Larry Lamers

Packet Protocol Extensions

T10/99-139R2 Date: 1999/03/10 Author: Gene Milligan, Mailing: 1999_1
George Penokie,
& Larry Lamers

Packet Protocol Extensions

T10/99-139R3 Date: 1999/03/15 Author: Gene Milligan, Mailing: 1999_1
George Penokie,
& Larry Lamers

Packet Protocol Extensions

T10/99-139R4 Date: 1999/04/08 Author: Gene Milligan, Mailing: 1999_2
George Penokie,
& Larry Lamers

Packet Protocol Extensions

T10/99-140R0 Date: 1999/02/28 Author: Larry Lamers Mailing: 1999_1
Project Proposal for SCSI Parallel Interface - 4 (SPI-4)

T10/99-140R1 Date: 1999/03/24 Author: Larry Lamers Mailing: 1999_1
Project Proposal for SCSI Parallel Interface - 4 (SPI-4)

T10/99-140R2 Date: 1999/05/06 Author: Larry Lamers Mailing: 1999_2
Project Proposal for SCSI Parallel Interface - 4 (SPI-4)

T10/99-140R3 Date: 1999/05/06 Author: Larry Lamers Mailing: 1999_2
Project Proposal for SCSI Parallel Interface - 4 (SPI-4)

T10/99-141R0 Date: 1999/02/26 Author: Larry Lamers Mailing: Missing
A Common CRC Method for Packetized and Legacy Devices

T10/99-142R0 Date: 1999/09/08 Author: Larry Lamers Mailing: 1999_4
Flow Control

T10/99-143R0 Date: 1999/03/02 Author: Steve Wilson Mailing: 1999_1
Extended Copy Command

T10/99-143R1 Date: 1999/04/02 Author: Steve Wilson Mailing: 1999_2
Extended Copy Command

T10/99-144R0 Date: 1999/03/01 Author: Bob Snively Mailing: 1999_1
Suggested changes to REPORT LUNS command for SPC-2

T10/99-144R1 Date: 1999/03/15 Author: Bob Snively Mailing: 1999_1
Suggested changes to REPORT LUNS command for SPC-2

T10/99-145R0 Date: 1999/03/01 Author: Stewart Wyatt Mailing: 1999_1
Minutes of Joint T11/T10 FC-TAPE Meeting - 2/10-11/99

T10/99-146R0 Date: 1999/03/02 Author: Bob Snively Mailing: 1999_1
Correction in interaction of persistent and legacy reservations

T10/99-146R1 Date: 1999/03/15 Author: Bob Snively Mailing: 1999_1
Correction in interaction of persistent and legacy reservations

T10/99-147R0 Date: 1999/03/05 Author: Bob Snively Mailing: 1999_1

Make CT and TTD obsolete

T10/99-148R0 Date: 1999/03/18 Author: Ian 'Sid' Mailing: 1999_1
Crighton

Memory in Cartridge proposal

T10/99-148R1 Date: 1999/05/19 Author: Ian 'Sid' Mailing: 1999_3
Crighton

Proposal for Storage and Access of Data on Media Auxiliary Memory

T10/99-148R2 Date: 1999/09/08 Author: Ian 'Sid' Mailing: 1999_4
Crighton

Proposal for Storage and Access of Data on Media Auxiliary Memory

T10/99-149R0 Date: 1999/03/08 Author: Bill Ham Mailing: 1999_1
Revised SPI-3 Timing Diagram

T10/99-150R0 Date: 1999/03/08 Author: Richard Mailing: 1999_1
Tomaszewski, Tom
Grieff, & Rob
Elliott

Justification for asynchronous information phase protection

T10/99-151R0 Date: 1999/03/04 Author: Gene Milligan, Mailing: 1999_1
George Penokie,
and Larry Lamers

Packet Protocol Extensions Illustrations (see 99-139r3)

T10/99-152R0 Date: 1999/03/09 Author: Ron Roberts Mailing: 1999_1
Minutes of MMC-2 Working Group - 3/9-10/99

T10/99-153R0 Date: 1999/05/06 Author: Ron Roberts Mailing: 1999_2
Project Proposal for MMC-3

T10/99-153R1 Date: 1999/05/06 Author: Ron Roberts Mailing: 1999_2
Project Proposal for MMC-3

T10/99-153R2 Date: 1999/05/06 Author: Ron Roberts Mailing: 1999_2
Project Proposal for MMC-3

T10/99-154R0 Date: 1999/05/06 Author: Ron Roberts Mailing: 1999_2
Project Proposal for RMC

T10/99-154R1 Date: 1999/05/06 Author: Ron Roberts Mailing: 1999_2
Project Proposal for RMC

T10/99-154R2 Date: 1999/05/06 Author: Ron Roberts Mailing: 1999_2
Project Proposal for RMC

T10/99-155R0 Date: 1999/03/09 Author: Gene Milligan Mailing: 1999_1
Timing Diagram

T10/99-156R0 Date: 1999/03/09 Author: Bill Ham and Mailing: 1999_1
Zane Daggett

Report from the SCSI Cable Testing Ad hoc -- March 2, 1999

T10/99-157R0 Date: 1999/03/10 Author: Bruce Leshay Mailing: 1999_1
Proposed edit to SPI-3 on P_CRCA transitions during DT transfers

T10/99-157R1 Date: 1999/03/17 Author: Bruce Leshay Mailing: 1999_2
Proposed edit to SPI-3 on P_CRCA transitions during DT transfers

T10/99-158R0 Date: 1999/03/10 Author: Bob Snively Mailing: 1999_1
Very long CDBs in FCP-2 and SPI-3

T10/99-158R1 Date: 1999/03/15 Author: Bob Snively Mailing: 1999_1
Very long CDBs in FCP-2 and SPI-3

T10/99-158R2 Date: 1999/03/17 Author: Bob Snively Mailing: 1999_1
Very long CDBs in FCP-2 and SPI-3

T10/99-158R3 Date: 1999/03/17 Author: Bob Snively Mailing: 1999_2
Very long CDBs in FCP-2 and SPI-3

T10/99-158R4 Date: 1999/04/28 Author: Bob Snively Mailing: 1999_2
Very long CDBs in FCP-2 and SPI-3

T10/99-159R0 Date: 1999/03/09 Author: Dale LaFollette Mailing: 1999_1
Joint T10/T11 FC-TAPE / SSC / FCP-2 Liaison Report

T10/99-160R0 Date: 1999/04/01 Author: Rob Elliott & Mailing: 1999_2
Gerry Houlder
Arbitration Fairness Control (in SPC-2/SPI-3/FCP-2)

T10/99-160R1 Date: 1999/04/21 Author: Rob Elliott & Mailing: 1999_2
Gerry Houlder
Arbitration Fairness Control (in SPC-2/SPI-3/FCP-2)

T10/99-160R2 Date: 1999/05/05 Author: Rob Elliott & Mailing: 1999_2
Gerry Houlder
Arbitration Fairness Control (in SPC-2/SPI-3/FCP-2)

T10/99-160R3 Date: 1999/06/27 Author: Rob Elliott Mailing: 1999_3
Normal Arbitration Fairness Control in SPI-3

T10/99-161R0 Date: 1999/03/11 Author: Larry Lamers Mailing: 1999_1
Meeting Notice - SPI-3 Working Group 4/7-8/99

T10/99-162R0 Date: 1999/03/15 Author: Stewart Wyatt Mailing: 1999_1
Minutes of Joint T11/T10 FC-TAPE Meeting - 3/9/99

T10/99-163R0 Date: 1999/05/01 Author: Ralph Weber Mailing: 1999_2
Comments on Extended Copy

T10/99-163R1 Date: 1999/05/13 Author: Ralph Weber Mailing: 1999_2
EXTENDED COPY command for SPC-2

T10/99-163R2 Date: 1999/07/22 Author: Ralph Weber Mailing: 1999_32
EXTENDED COPY command for SPC-2

T10/99-164R0 Date: 1999/03/11 Author: Gene Milligan Mailing: 1999_1
ISO Report for March 1999

T10/99-165R0 Date: 1999/03/22 Author: Lamers and Mailing: 1999_1
Lohmeyer
CONTINUE TASK Message

T10/99-166R0 Date: 1999/03/24 Author: Larry Lamers Mailing: 1999_1

Enabling Upper Byte Hamming

T10/99-166R1 Date: 1999/03/26 Author: Larry Lamers Mailing: 1999_2
Enabling Upper Byte Hamming

T10/99-166R2 Date: 1999/03/31 Author: Larry Lamers Mailing: 1999_2
Enabling Upper Byte Hamming

T10/99-166R3 Date: 1999/04/07 Author: Larry Lamers Mailing: 1999_2
Enabling Upper Byte Hamming

T10/99-167R0 Date: 1999/04/08 Author: John Lohmeyer Mailing: 1999_2
Minutes of SPI-3 Working Group - April 7-8, 1999

T10/99-167R1 Date: 1999/04/13 Author: John Lohmeyer Mailing: 1999_2
Minutes of SPI-3 Working Group - April 7-8, 1999

T10/99-168R0 Date: 1999/03/15 Author: Bob Snively Mailing: 1999_2
FCP-2 changes from revision 0 to revision 1

T10/99-168R1 Date: 1999/03/31 Author: Bob Snively Mailing: 1999_2
FCP-2 changes from revision 0 to revision 1

T10/99-168R2 Date: 1999/04/27 Author: Bob Snively Mailing: 1999_2
FCP-2 changes from revision 0 to revision 1

T10/99-169R0 Date: 1999/03/31 Author: Larry Lamers & Vince Bastiani Mailing: 1999_2
Groundwork for Expander Communication

T10/99-169R1 Date: 1999/04/08 Author: Larry Lamers & Vince Bastiani Mailing: 1999_2
Groundwork for Expander Communication

T10/99-170R0 Date: 1999/04/04 Author: Bill Galloway Mailing: 1999_2
Packetized cleanup and improvements

T10/99-170R1 Date: 1999/04/09 Author: Bill Galloway Mailing: 1999_2
Packetized cleanup and improvements

T10/99-171R0 Date: 1999/04/07 Author: Bill Ham Mailing: Missing
Implied Assumptions in SPI-3 Timing Budget

T10/99-172R0 Date: 1999/04/07 Author: Bill Ham & Zane Daggett Mailing: 1999_2
Report on April 6th Cable Performance meeting

T10/99-173R0 Date: 1999/04/08 Author: Bill Galloway Mailing: 1999_2
Restrict QAS to Packetized

T10/99-174R0 Date: 1999/04/12 Author: George Penokie Mailing: 1999_2
Annex A Modification

T10/99-175R0 Date: 1999/05/07 Author: Weber & Lohmeyer Mailing: 1999_2
Minutes of SPI-3 Working Group - May 2-3, 1999

T10/99-175R1 Date: 1999/05/20 Author: Weber & Lohmeyer Mailing: 1999_2
Minutes of SPI-3 Working Group - May 2-3, 1999

T10/99-176R0 Date: 1999/05/10 Author: Weber & Lohmeyer Mailing: 1999_2
Minutes of SCSI-3 Working Group - May 5, 1999

T10/99-177R0 Date: 1999/05/12 Author: Weber & Lohmeyer Mailing: 1999_2
Minutes of T10 Plenary Meeting #31 - May 6, 1999

T10/99-177R1 Date: 1999/05/20 Author: Weber & Lohmeyer Mailing: 1999_2
Minutes of T10 Plenary Meeting #31 - May 6, 1999

T10/99-178R0 Date: 1999/04/20 Author: Stewart Wyatt Mailing: 1999_2
Minutes of Joint T11/T10 FC-Tape Working Group - April 14-15, 1999

T10/99-179R0 Date: 1999/04/26 Author: Mark Evans Mailing: 1999_2
Hard Drive Self Tests

T10/99-179R1 Date: 1999/05/14 Author: Mark Evans Mailing: 1999_2
Hard Drive Self Tests

T10/99-179R2 Date: 1999/07/08 Author: Mark Evans Mailing: 1999_3
Logical Unit Self Tests

T10/99-179R3 Date: 1999/07/23 Author: Mark Evans Mailing: 1999_4
Logical Unit Self Tests

T10/99-179R4 Date: 1999/07/29 Author: Mark Evans Mailing: 1999_4
Logical Unit Self Tests

T10/99-179R5 Date: 1999/09/15 Author: Mark Evans Mailing: 1999_4
Logical Unit Self Tests

T10/99-180R0 Date: 1999/04/22 Author: Gerry Houlder Mailing: 1999_2
Application Client Log Page proposal

T10/99-180R1 Date: 1999/07/15 Author: Gerry Houlder Mailing: 1999_3
Application Client Log Page proposal

T10/99-181R0 Date: 1999/04/23 Author: Rob Elliott and Mailing: 1999_2
Carl Zeitler
SSC Compression Algorithm default values

T10/99-182R0 Date: 1999/04/27 Author: Tom Coughlan Mailing: 1999_2
Still more on Persistent Reservations

T10/99-182R1 Date: 1999/05/05 Author: Tom Coughlan Mailing: 1999_2
Still more on Persistent Reservations

T10/99-183R0 Date: 1999/04/27 Author: Gene Milligan Mailing: 1999_2
Slow DT Timing Revision Proposal for SPI-3

T10/99-183R1 Date: 1999/05/02 Author: Gene Milligan Mailing: 1999_2
Slow DT Timing Revision Proposal for SPI-3

T10/99-184R0 Date: 1999/04/29 Author: George Penokie Mailing: 1999_2
Miscellaneous SPI-3 Technical Changes

T10/99-184R1 Date: 1999/04/29 Author: George Penokie Mailing: 1999_2
Miscellaneous SPI-3 Technical Changes

T10/99-185R0 Date: 1999/05/01 Author: Rob Elliott & Mailing: 1999_2

Keith Childs

Change CRC timing values

T10/99-185R1 Date: 1999/05/10 Author: Rob Elliott & Keith Childs Mailing: 1999_2

Change CRC timing values

T10/99-185R2 Date: 1999/06/25 Author: Rob Elliott & Keith Childs Mailing: 1999_3

Change CRC timing values

T10/99-186R0 Date: 1999/05/03 Author: Gene Milligan Mailing: 1999_2
ISO Report for May 1999

T10/99-187R0 Date: 1999/05/10 Author: John Lohmeyer Mailing: 1999_2
Proposal to change MSE High-Z Current Specification in SPI-3

T10/99-187R1 Date: 1999/06/18 Author: John Lohmeyer Mailing: 1999_3
Proposal to change MSE high-impedance current specification in SPI-3

T10/99-187R2 Date: 1999/07/12 Author: John Lohmeyer Mailing: 1999_3
Proposal to change MSE high-impedance current specification in SPI-3

T10/99-188R0 Date: 1999/05/04 Author: Dan Smith Mailing: 1999_3
SPI-3, rev 7, Section 7 Table and Figure Clarification

T10/99-188R1 Date: 1999/07/13 Author: Dan Smith Mailing: 1999_3
SPI-3, rev 7, Section 7 Table and Figure Clarification

T10/99-189R0 Date: 1999/05/05 Author: Gerry Houlder Mailing: 1999_2
SBC-2: Clarification of ECC Correction Span Field (>255 bits)

T10/99-190R0 Date: Author: Mailing: Missing
(not used)

T10/99-191R0 Date: 1999/05/12 Author: Richard Moore Mailing: 1999_2
Release Glitch Management for QAS

T10/99-191R1 Date: 1999/07/13 Author: Richard Moore Mailing: 1999_3
Release Glitch Management for QAS

T10/99-192R0 Date: 1999/05/11 Author: Barry Blount Mailing: 1999_2
Compaq patent position re US Patent 5,586,272 pertaining to SPI-2

T10/99-193R0 Date: 1999/05/11 Author: Stewart Wyatt Mailing: 1999_2
Minutes of Joint T10/T11 FC_TAPE Meeting - May 4, 1999

T10/99-194R0 Date: 1999/05/21 Author: Larry Lamers Mailing: 1999_3
Meeting Notice - CAM-3 Working Group - June 29-30, 1999

T10/99-195R0 Date: Author: Mailing: Missing
(not used)

T10/99-196R0 Date: 1999/06/01 Author: Paul Aloisi Mailing: 1999_3
SPI-3 Assumptions for receiver and driver levels

T10/99-197R0 Date: 1999/05/28 Author: Rob Elliott Mailing: 1999_3
REPORT LUNS and small allocation lengths

T10/99-198R0 Date: 1999/06/06 Author: Ralph Weber /
Deborah Donovan Mailing: 1999_3
Public Review Comment #1 on NCITS 330:199x (RBC)

T10/99-199R0 Date: 1999/06/22 Author: Tom Coughlan and
John Meneghini Mailing: 1999_3
Persistent Reservation: Register and Ignore Existing Key

T10/99-200R0 Date: 1999/07/20 Author: Weber & Lohmeyer Mailing: 1999_3
Minutes of SPI-3 Working Group - July 12-13, 1999

T10/99-200R1 Date: 1999/07/26 Author: Weber & Lohmeyer Mailing: 1999_3
Minutes of SPI-3 Working Group - July 12-13, 1999

T10/99-201R0 Date: 1999/07/21 Author: Weber & Lohmeyer Mailing: 1999_3
Minutes of SCSI Working Group - July 14, 1999

T10/99-201R1 Date: 1999/07/26 Author: Weber & Lohmeyer Mailing: 1999_3
Minutes of SCSI Working Group - July 14, 1999

T10/99-202R0 Date: 1999/07/23 Author: Weber & Lohmeyer Mailing: 1999_3
Minutes of T10 Plenary Meeting #32 - July 15, 1999

T10/99-202R1 Date: 1999/08/12 Author: Weber & Lohmeyer Mailing: 1999_4
Minutes of T10 Plenary Meeting #32 - July 15, 1999

T10/99-203R0 Date: 1999/06/16 Author: Paul Aloisi Mailing: 1999_3
Modeling LVD Terminators

T10/99-204R0 Date: 1999/06/18 Author: Dean Wallace Mailing: Missing
Simulation Document

T10/99-205R0 Date: 1999/06/21 Author: Dean Wallace Mailing: 1999_3
Minutes of SCSI signal modeling study group - June 16, 1999

T10/99-206R0 Date: 1999/06/24 Author: George Penokie Mailing: 1999_3
MCM Additions to Fibre Channel Control page in FCP-2

T10/99-207R0 Date: 1999/07/04 Author: Ralph Weber Mailing: 1999_3
SAM-2 Changes for queuing

T10/99-208R0 Date: 1999/06/09 Author: Rob Elliott Mailing: 1999_3
MRIE behavior with TEST bit asserted

T10/99-209R0 Date: 1999/07/06 Author: Ron Roberts Mailing: 1999_3
Resolution of Public Review Comments on RBC

T10/99-210R0 Date: 1999/07/06 Author: Jeff Williams Mailing: 1999_3
ASC/ASCQ for CRC errors during DT transfer

T10/99-210R1 Date: 1999/07/06 Author: Jeff Williams Mailing: 1999_3
ASC/ASCQ for CRC errors during DT transfer

T10/99-211R0 Date: 1999/07/04 Author: Bob Snively Mailing: 1999_3
FCP-2 changes between revision 1 and revision 2

T10/99-212R0 Date: 1999/07/07 Author: George Penokie Mailing: 1999_3
Packetized error handling changes for SPI-3

T10/99-212R1 Date: 1999/07/07 Author: George Penokie Mailing: 1999_3
Packetized error handling changes for SPI-3

T10/99-212R2 Date: 1999/07/14 Author: George Penokie Mailing: 1999_3
Packetized error handling changes for SPI-3

T10/99-213R0 Date: 1999/07/08 Author: William Petty Mailing: 1999_3
SCSI out of band communications method

T10/99-214R0 Date: 1999/07/15 Author: Larry Lamers Mailing: 1999_3
Project Proposal for SCSI Domain Validation Technical Report

T10/99-214R1 Date: 1999/07/15 Author: Larry Lamers Mailing: 1999_3
Project Proposal for SCSI Domain Validation Technical Report

T10/99-215R0 Date: 1999/07/14 Author: Paul Aloisi Mailing: 1999_3
Crosstalk Issues with 99-111r3

T10/99-215R1 Date: 1999/09/13 Author: Paul Aloisi Mailing: 1999_4
Crosstalk Issues with 99-111r5

T10/99-216R0 Date: 1999/07/14 Author: Gene Milligan Mailing: 1999_3
ISO Report for July 1999

T10/99-217R0 Date: 1999/07/13 Author: Rob Elliott Mailing: 1999_3
Expansion of ASCQs for ASC 5Dh

T10/99-218R0 Date: 1999/09/16 Author: Erich Oetting Mailing: 1999_4
Project Proposal for SMC-2 Standard

T10/99-218R1 Date: 1999/09/13 Author: Erich Oetting Mailing: 1999_4
Project Proposal for SMC-2 Standard

T10/99-218R2 Date: 1999/09/16 Author: Erich Oetting Mailing: 1999_4
Project Proposal for SMC-2 Standard

T10/99-219R0 Date: 1999/07/15 Author: Tom Coughlan Mailing: 1999_3
Persistent Reservations Conflict Behavior

T10/99-220R0 Date: 1999/07/15 Author: Gene Milligan Mailing: 1999_3
Information about US Patent # 4,633,350

T10/99-221R0 Date: 1999/07/14 Author: Kumar Malavalli Mailing: 1999_3
T11 Liaison Report

T10/99-222R0 Date: 1999/07/15 Author: Paul Aloisi Mailing: 1999_3
SCSI Trade Association Report - July 1999

T10/99-223R0 Date: 1999/07/13 Author: Steve Jerman Mailing: 1999_3
Proposal for Storage and Access of Data on Media Auxiliary Memory

T10/99-223R1 Date: 1999/08/04 Author: Sid Crighton Mailing: 1999_4
Proposal for Storage and Access of Data on Media Auxiliary Memory

T10/99-223R2 Date: 1999/09/15 Author: Steve Jerman Mailing: 1999_4
Proposal for Storage and Access of Data on Media Auxiliary Memory

T10/99-224R0 Date: 1999/07/13 Author: Stewart Wyatt Mailing: 1999_3
Minutes of T10/T11 FC-Tape Joint Working Group - July 1999

T10/99-224R1 Date: 1999/07/22 Author: Stewart Wyatt Mailing: 1999_3
Minutes of T10/T11 FC-Tape Joint Working Group - July 1999

T10/99-225R0 Date: 1999/08/28 Author: Rob Elliott Mailing: 1999_4
QAS Arbitration Fairness

T10/99-226R0 Date: 1999/08/04 Author: Jim Coomes Mailing: 1999_4
Mode Page 19h DSA bit Clarification in FCP-2

T10/99-227R0 Date: 1999/08/04 Author: George Penokie Mailing: 1999_4
Task management handling changes for SPI-3

T10/99-227R1 Date: 1999/08/18 Author: George Penokie Mailing: 1999_4
Task management handling changes for SPI-3

T10/99-227R2 Date: 1999/08/27 Author: George Penokie Mailing: 1999_4
Task management handling changes for SPI-3

T10/99-228R0 Date: 1999/08/04 Author: Dave Peterson Mailing: 1999_4
Proposed response to SSC letter ballot comments

T10/99-228R1 Date: 1999/09/13 Author: Dave Peterson Mailing: 1999_4
Proposed response to SSC letter ballot comments

T10/99-229R0 Date: 1999/08/15 Author: Ralph Weber Mailing: 1999_4
Restricting Mode Page Code Usage

T10/99-230R0 Date: 1999/08/15 Author: Ralph Weber Mailing: 1999_4
Extended Copy Support for Persistent Reservations

T10/99-230R1 Date: 1999/09/16 Author: Ralph Weber Mailing: 1999_4
Extended Copy Support for Persistent Reservations

T10/99-231R0 Date: 1999/08/18 Author: Ralph Weber Mailing: 1999_4
EXTENDED COPY and Abort Task Management Functions

T10/99-231R1 Date: 1999/09/16 Author: Ralph Weber Mailing: 1999_4
EXTENDED COPY and Abort Task Management Functions

T10/99-232R0 Date: 1999/08/21 Author: Ralph Weber Mailing: 1999_4
SAM-2 Tasks and Work

T10/99-232R1 Date: 1999/09/15 Author: Ralph Weber Mailing: 1999_4
SAM-2 Tasks and Work

T10/99-233R0 Date: 1999/08/21 Author: Ralph Weber Mailing: 1999_4
SAM-2 TASK SET FULL Clarifications

T10/99-234R0 Date: 1999/08/18 Author: Ralph Weber Mailing: 1999_4
SMU Note for SPC-2

T10/99-235R0 Date: 1999/08/06 Author: Ralph Weber Mailing: Missing
SMU task management functions changes

T10/99-236R0 Date: 1999/08/12 Author: Dean Wallace Mailing: 1999_4
Minutes of SCSI signal modeling study group (draft) - July 29, 1999

T10/99-236R1 Date: 1999/09/09 Author: Dean Wallace Mailing: 1999_4

Minutes of SCSI signal modeling study group (approved) - July 29, 1999

T10/99-237R0 Date: 1999/08/13 Author: ISO/IEC Mailing: 1999_4
Draft IS on SCSI Controller Commands - 2 (SCC-2)

T10/99-238R0 Date: 1999/08/18 Author: John Lohmeyer Mailing: 1999_4
Response to NCITS 330 (RBC) LPR comment #1 from Ralph Weber

T10/99-239R0 Date: 1999/08/19 Author: Roger Ronald Mailing: 1999_4
Project Proposal for SCSI on Scheduled Transfer (SST)

T10/99-239R1 Date: 1999/09/16 Author: Roger Ronald Mailing: 1999_4
Project Proposal for SCSI on Scheduled Transfer (SST)

T10/99-240R0 Date: 1999/08/23 Author: Stewart Wyatt Mailing: 1999_4
Minutes of Joint T11/T10 Tape ad hoc Meeting - Aug 4, 1999

T10/99-241R0 Date: 1999/08/28 Author: Rob Elliott Mailing: 1999_4
SPI-3 Setup and Hold Timings text changes

T10/99-242R0 Date: 1999/09/01 Author: John Lohmeyer Mailing: 1999_4
Proposed addition to SPI-3 integrity check fall back procedure

T10/99-242R1 Date: 1999/09/01 Author: John Lohmeyer Mailing: 1999_4
Proposed addition to SPI-3 integrity check fall back procedure

T10/99-242R2 Date: 1999/09/13 Author: John Lohmeyer Mailing: 1999_4
Proposed addition to SPI-3 integrity check fall back procedure

T10/99-243R0 Date: 1999/09/01 Author: Bill Ham Mailing: 1999_4
Project Proposal for SCSI Signal Modeling (SSM)

T10/99-243R1 Date: 1999/09/16 Author: Bill Ham Mailing: 1999_4
Project Proposal for SCSI Signal Modeling Technical Report (SSM)

T10/99-244R0 Date: 1999/09/01 Author: Bill Ham Mailing: 1999_4
References to signal integrity publications

T10/99-245R0 Date: 1999/09/09 Author: Jim Hafner Mailing: 1999_4
A detailed proposal for access controls (in SPC-2)

T10/99-246R0 Date: 1999/09/02 Author: Ed Gardner Mailing: 1999_4
Project Proposal for SCSI VI Protocol (SVP)

T10/99-246R1 Date: 1999/11/04 Author: Ed Gardner Mailing: 1999_4
Project Proposal for SCSI VI Protocol (SVP)

T10/99-247R0 Date: 1999/09/08 Author: Bob Snively Mailing: 1999_4
FCP-2 changes from revision 02 to revision 03

T10/99-248R0 Date: 1999/09/10 Author: Vince Bastiani Mailing: 1999_4
Ultra N Proposal / Adaptec

T10/99-249R0 Date: 1999/09/14 Author: Charles Monia Mailing: 1999_4
Parallel SCSI Extended Addressing Proposal

T10/99-249R1 Date: 1999/09/14 Author: Charles Monia Mailing: 1999_4
Parallel SCSI Extended Addressing Proposal

T10/99-250R0 Date: 1999/09/14 Author: Charles Monia / Mailing: 1999_4
Larry Lamers
Proposal for Increasing the Addressability of Parallel SCSI

T10/99-250R1 Date: 1999/09/14 Author: Charles Monia / Mailing: 1999_4
Larry Lamers
Proposal for Increasing the Addressability of Parallel SCSI

T10/99-251R0 Date: 1999/09/03 Author: Keith Parker Mailing: Missing
SSS - SCSI Socket Services Overview

T10/99-252R0 Date: 1999/09/03 Author: Keith Parker Mailing: Missing
SSS Applied to SCSI Storage Devices & Systems

T10/99-253R0 Date: 1999/09/03 Author: Keith Parker Mailing: Missing
SSS Applied to SCSI Communication Devices & Systems

T10/99-254R0 Date: 1999/09/03 Author: Keith Parker Mailing: Missing
SSS Applied to SCSI Peripheral Modules

T10/99-255R0 Date: 1999/09/03 Author: Keith Parker Mailing: Missing
SSS Applied to SCSI Processor Modules

T10/99-256R0 Date: 1999/09/03 Author: Keith Parker Mailing: Missing
SSS Applied to SCSI Application Modules

T10/99-257R0 Date: 1999/09/03 Author: Keith Parker Mailing: Missing
SSS Academic Evaluation and Development

T10/99-258R0 Date: 1999/09/07 Author: George Penokie Mailing: 1999_4
List lengths that exceed maximum allocation length

T10/99-259R0 Date: 1999/09/09 Author: George Penokie Mailing: 1999_4
Beyond 2 Tbytes

T10/99-260R0 Date: 1999/09/09 Author: William Petty Mailing: 1999_4
SPI-4 ISI reduction via transmit pre-compensation

T10/99-261R0 Date: 1999/09/09 Author: William Petty Mailing: 1999_4
SPI-4 timing budget utilizing receiver signal deskew method

T10/99-262R0 Date: 1999/09/09 Author: William Petty Mailing: 1999_4
SPI-4 REQ/ACK ISI removal via qualified clocking method

T10/99-263R0 Date: 1999/09/08 Author: Paul Suhler Mailing: 1999_4
SSC Proposal to Support Partial Loading & Unloading

T10/99-264R0 Date: 1999/08/12 Author: Larry Lamers Mailing: 1999_4
Margin Control

T10/99-265R0 Date: 1999/09/09 Author: George Ericson Mailing: 1999_4
Comments on SAM multi-port model (rev 8 vs. rev 11)

T10/99-266R0 Date: 1999/09/11 Author: Ralph Weber Mailing: 1999_4
Description Lengths for 5D ASC/ASCs

T10/99-267R0 Date: 1999/09/20 Author: Weber & Lohmeyer Mailing: 1999_4
Minutes of SCSI Physical Working Group - Sept 13-14, 1999

T10/99-268R0 Date: 1999/09/09 Author: Weber & Lohmeyer Mailing: Missing
Minutes of SCSI Working Group - Sept 15, 1999

T10/99-269R0 Date: 1999/09/09 Author: Weber & Lohmeyer Mailing: Missing
Minutes of T10 Plenary Meeting #33 - Sept 16, 1999

T10/99-270R0 Date: 1999/09/09 Author: Bill Ham Mailing: 1999_4
Minutes of SCSI signal modeling study group (draft) - Sept 1, 1999

T10/99-271R0 Date: 1999/09/10 Author: John Lohmeyer Mailing: 1999_4
Proposed revision to T10 Electronic Procedures

T10/99-271R1 Date: 1999/09/13 Author: John Lohmeyer Mailing: 1999_4
Proposed revision to T10 Electronic Procedures

T10/99-272R0 Date: 1999/09/15 Author: John Lohmeyer Mailing: 1999_4
T10 Annual Report for 1999

T10/99-273R0 Date: 1999/09/10 Author: Gene Milligan Mailing: 1999_4
Address Assignment Pins on SCA and Three-in-one SFF 8009 connectors

T10/99-274R0 Date: 1999/09/13 Author: Richard Moore Mailing: 1999_4
Forcing Bus Free from QAS -- Initiator Method

T10/99-275R0 Date: 1999/09/13 Author: Donald Woelz Mailing: 1999_4
Presentation on the project proposal for SCSI on Scheduled Transfer

T10/99-276R0 Date: 1999/07/27 Author: Don Woelz Mailing: 1999_4
proposed draft for SCSI on Scheduled Transfer

T10/99-277R0 Date: 1999/09/15 Author: Gerry Houlder Mailing: 1999_4
Allow WRITE BUFFER when drive not ready

T10/99-278R0 Date: 1999/09/15 Author: Jim Hafner Mailing: Missing
Presentation: A proposal for Access Control

T10/99-279R0 Date: 1999/09/15 Author: Keith Parker Mailing: Missing
SSS - SCSI Socket Services Report 9/15/99

T10/99-280R0 Date: 1999/09/16 Author: Neil Wanamaker Mailing: 1999_4
T11 liaison report to September T10 Plenary