

Accredited Standards Committee*

InterNational Committee for Information Technology Standards (INCITS)

Doc. No.: T10/02-162r0

Date: May 3, 2002

Reply to: John Lohmeyer

To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: Minutes of T10 Plenary Meeting #49 -- May 2, 2002
Nashua, NH

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Approval of Minutes - March 2002 Meeting - Dallas, TX (T10/02-102r1)
5. Document Distribution
6. Call for Patents
7. Review of Old Action Items
8. Project Status Reports
 - 8.1 Project Status Summary and INCITS Liaison [Lohmeyer]
 - 8.1.1 INCITS Antitrust Guidelines
 - 8.2 SCSI Fibre Channel Protocol - 2 (FCP-2) {Project 1144-D} [Snively]
 - 8.3 SCSI Architecture Model - 2 (SAM-2) {Project 1157-D} [Weber]
 - 8.4 MultiMedia Command Set - 3 (MMC-3) {Project 1363-D} [McFerrin]
 - 8.5 SCSI Parallel Interface - 4 (SPI-4) {Project 1365-D} [Penokie]
 - 8.6 SCSI Domain Validation Technical Report (SDV) {Project 1378-DT} [Gibbons]
 - 8.7 SCSI Medium Changer Commands - 2 (SMC-2) {Project 1383-D} [Oetting]
 - 8.8 SCSI Signal Modeling (SSM) {Project 1414-DT} [Aloisi/Barnes]
 - 8.9 SCSI RDMA Protocol (SRP) {Project 1415-D} [Simpson]
 - 8.10 SCSI Primary Commands - 3 (SPC-3) {Project 1416-D} [Weber]
 - 8.11 SCSI Block Commands - 2 (SBC-2) {Project 1417-D} [Elliott]
 - 8.12 Object-based Storage Devices Commands (OSD) {Project 1355-D} [Weber]
 - 8.13 SCSI Stream Commands - 2 (SSC-2) {Project 1434-D} [Peterson]
 - 8.14 SCSI Passive Interconnect Performance (PIP) {Project 1439-D} [Daggett]
 - 8.15 SCSI Serial Bus Protocol -3 (SBP-3) {Project 1467-D} [Johansson]
 - 8.16 SCSI Signal Modeling - 2 (SSM-2) {Project 1514-D} [Aloisi/Manildi]
 - 8.17 SCSI RDMA Protocol - 2 (SRP-2) {Project 1524-D} [Simpson]
 - 8.18 SCSI Parallel Interface - 5 (SPI-5) {Project 1525-D} [Penokie]
 - 8.19 SCSI Management Server Commands (MSC) {Project 1528-D} [Penokie/Elliott]
 - 8.20 MultiMedia Command Set - 4 (MMC-4) {Project 1545-D} [McFerrin]
 - 8.21 Automation/Drive Interface - Physical Layer (ADP) {Project 1556-D} [Suhler/Griswold]
 - 8.22 Automation/Drive Interface - Transport Protocol (ADT) {Project 1557-D} [Suhler/Griswold]
 - 8.23 Automation/Drive Interface - Commands (ADC) {Project 1558-D} [Suhler/Griswold]
 - 8.24 SCSI Enclosure Services - 2 (SES-2) {Project 1559-D} [Elliott]
9. Old Business
 - 9.1 Style Guide [Moore]
 - 9.2 Project Proposal for a SCSI Parallel Interface - 6 (SPI-6) Standard (01-145) [Lohmeyer]
 - 9.3 A/V Direct-Access Project Proposal (01-337) [Johansson]

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- 9.4 Obsolete Reserve/Release (02-108r0) [Peterson]
- 10. New Business
 - 10.1 Project Proposal for Serial Attached SCSI (02-098) [Lohmeyer]
 - 10.2 Project Proposal for SCSI Architecture Model - 3 (02-118r1) [Lohmeyer]
 - 10.3 Project Proposal for Fibre Channel Protocol - 3 (02-138r1) [Peterson]
 - 10.4 Actions on Parallel SCSI Working Group Recommendations
 - 10.4.1 Accept the SPI-4 PR comment (02-129r0) [Houlder]
 - 10.4.2 Link control message correction (02-150r1) [Galloway]
 - 10.4.3 Negotiation Corrections (02-151r1) [Galloway]
 - 10.5 Actions on CAP Working Group Recommendations
 - 10.5.1 SBC-2, SSC-2, SMC-2 & OSD Support For All Registrants Persistent Reservations (02-130r0) [Weber]
 - 10.5.2 SMC-2 Proposal: Read Element Status Device Identifier (02-104r3) [Banther]
 - 10.5.3 SPC-3 AERC clarification (02-145r0) [Elliott]
 - 10.5.4 SPC-3 Informational exceptions, linked commands, and CONDITION MET (02-144r0) [Elliott]
 - 10.5.5 SPC-3 Clearing effects of I_T nexus Loss (02-134r2) [Elliott]
 - 10.6 Actions on Other Working Group Recommendations
 - 10.7 Actions on SAS Study Group Recommendations
 - 10.7.1 SAS REPORT MANUFACTURER ID (02-165r1) [Roberts]
 - 10.7.2 ALIGN primitive encoding (02-168r1) [Galloway/Bastiani]
 - 10.7.3 SAS Error primitive (02-167r1) [Galloway]
- 11. ISO/IEC
 - 11.1 ISO/IEC Report [Robinson]
 - 11.2 ISO/IEC Business [Robinson]
- 12. Liaison Reports
 - 12.1 T11 Liaison Report [Forbes]
 - 12.2 T13 Liaison Report [Colegrove]
 - 12.3 SFF Industry Group [Allan]
 - 12.4 IEEE 1394 [Johansson]
 - 12.5 SCSI Trade Association (STA) [Jones/Aloisi]
 - 12.6 IETF SCSI over IP [Black/Robinson]
- 13. Review of Action Items
- 14. Meeting Schedule
 - 14.1 Authorization of Working Group Meetings
 - 14.2 SBP-3 Tentative Meeting Schedule
- 15. Adjournment

Results of Meeting

1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday May 2, 2002. He thanked Zane Daggett of Hitachi Cable Manchester for hosting the meeting.

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

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

2. Approval of Agenda

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

- 8.1.1 INCITS Antitrust Guidelines
- 10.4.1 Accept the SPI-4 PR comment (02-129r0) [Houlder]
- 10.4.2 Link control message correction (02-150r1) [Galloway]
- 10.4.3 Negotiation Corrections (02-151r1) [Galloway]
- 10.5.1 SBC-2, SSC-2, SMC-2 & OSD Support For All Registrants Persistent Reservations (02-130r0) [Weber]
- 10.5.2 SMC-2 Proposal: Read Element Status Device Identifier (02-104r3) [Banther]
- 10.5.3 SPC-3 AERC clarification (02-145r0) [Elliott]
- 10.5.4 SPC-3 Informational exceptions, linked commands, and CONDITION MET (02-144r0) [Elliott]
- 10.5.5 SPC-3 Clearing effects of I_T nexus Loss (02-134r2) [Elliott]
- 10.7 Actions on SAS Study Group Recommendations
- 10.7.1 SAS REPORT MANUFACTURER ID (02-165r1) [Roberts]
- 10.7.2 ALIGN primitive encoding (02-168r1) [Galloway/Bastiani]
- 10.7.3 SAS Error primitive (02-167r1) [Galloway]

No agenda items were added/revised during the course of the meeting.

3. Attendance and Membership

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

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

John briefly discussed the mailing fees. Complete pricing information is contained in the 2002 membership form (available at ftp://ftp.t10.org/t10/mem_form.txt).

There are also minimum attendance requirements to maintain voting membership on T10. If a member organization fails to attend two of the last three T10 meetings, they are warned that failing to attend the next T10 meeting would result in their membership being terminated.

The Chair said he had sent letters to 15 people from 5 organizations informing them that their membership was in jeopardy due to non-attendance (see 02-126r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

Dell Computer Corp.
Hitachi Cable Manchester
Molex Inc.
QLogic Corp.
Tyco Electronics

All organizations in attendance jeopardy were present except:

QLogic Corp.

The members from QLogic were changed to non-voting status.

The following organization joined the committee at this meeting.:

Vixel

The T10 membership during the meeting was 43 organizations unchanged from 43 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.

The following organizations requested membership in T10 to take effect after the meeting:

Conexant
Network Appliance
Unisys
Western Digital

John Lohmeyer reminded members that failure to vote on two out of the last three letter ballots also would result in membership jeopardy and then reported on the status of companies that have not voted on recent letter ballots. Document 02-156r0 contains current letter ballot jeopardy information. Molex Inc. is the only organization currently in letter ballot jeopardy.

4. Approval of Minutes - March 2002 Meeting - Dallas, TX (T10/02-102r1)

The minutes were approved as written.

5. Document Distribution

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

John Lohmeyer requested that all documents for the next mailing be in his hands in electronic format by 10:30 a.m. on Thursday May 9, 2002. Documents received after this time may go into a subsequent mailing.

John reminded the committee of the requirements for document submission. Since T10 meets its document retention requirements by preparing mailings, documents included in the mailing must be suitable for archiving. This means that native-format and/or Portable Document Format (PDF) electronic originals with proper identification must be submitted.

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

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

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

Minutes are available on the T10 World Wide Web page (see below), and are distributed to the T10 Reflector.

To be added to the T10 Reflector, send an e-mail to majordomo@t10.org with the line 'subscribe t10' in the message body.

The INCITS Secretariat maintains a World Wide Web page at:

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

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

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

There is also a mirror site at:

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

The 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.incits.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. Gene Milligan prepared a useful "Handy dandy Technical Committee's Patents Guide", which is available at <ftp://ftp.t10.org/t10/document.99/99-291r0.pdf>.

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

Cris Simpson reported that a statement of the Intel patent policy can be found in T10/01-041r0.

John asked that anyone who knows of applicable patents contact him.

Michael Banther notified John that a detailed patent disclosure regarding the ADI project would be made at the next meeting.

7. Review of Old Action Items

- 457 John Lohmeyer will forward 02-010r0 to INCITS for processing as a new project proposal for ADI Physical Layer. *Complete.*
- 458 John Lohmeyer will forward 02-009r0 to INCITS for processing as a new project proposal for ADI Transport Protocol. *Complete.*
- 459 John Lohmeyer will forward 02-008r0 to INCITS for processing as a new project proposal for ADI Commands. *Complete.*
- 460 Ralph Weber will prepare SAM-2 revision 23. *Complete.*
- 461 John Lohmeyer will conduct a letter ballot on forwarding SAM-2 revision 23 to first public review. *Complete.*

- 462 John Lohmeyer will inform INCITS that T10 recommends reaffirmation of X3.91M:1987 [R1997] Storage Module Interfaces (SMD-E). *Complete.*
- 463 John Lohmeyer will inform INCITS that T10 recommends reaffirmation of X3.301:1997 SCSI-3 Primary Commands (SPC), X3.301:1997 SCSI-3 Primary Commands (SPC). *Complete.*
- 464 John Lohmeyer will inform INCITS that T10 recommends reaffirmation of NCITS 309:1997 Serial Storage Architecture - SCSI-3 Protocol (SSA-S3P). *Complete.*
- 465 John Lohmeyer will inform INCITS that T10 recommends reaffirmation of NCITS 307:1997 Serial Storage Architecture - Physical Layer 2 (SSA-PH2). *Complete.*
- 466 John Lohmeyer will inform INCITS that T10 recommends reaffirmation of NCITS 308:1997 Serial Storage Architecture - Transport Layer 2 (SSA-TL2). *Complete.*
- 467 John Lohmeyer will inform INCITS that T10 is unable to reach a consensus vote regarding reaffirmation or withdrawal of X3.304:1997 SCSI-3 Multimedia Commands (MMC). *Complete.*
- 468 Ralph Weber will send the IR a new FCD for SPC-2 that incorporates 02-056r2.
- 469 John Lohmeyer will forward 02-094r0 to INCITS for processing as a new project proposal for SCSI Enclosure Services -2 (SES-2). *Complete.*
- 470 John Lohmeyer will inform INCITS that the sense of T10 is that X3/TR-16:1997 Technical Report for Generic Packetized Protocol (GPP) is not currently valid or useful. *Complete. John noted that the GPP motion at the last meeting had required a 2/3rds vote instead of a simple majority. Consequently, the motion had not passed and INCITS will not take any actions on GPP.*
- 471 John Lohmeyer will request INCITS to investigate creation of an "Obsolete" category for standards where the standards are available for purchase but clearly marked as "No Longer Recommended for Implementation." *Complete.*

8. Project Status Reports

8.1 Project Status Summary and INCITS Liaison [Lohmeyer]

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

8.1.1 INCITS Antitrust Guidelines

John Lohmeyer reported that INCITS has developed a new set of antitrust guidelines that they require be included in each subgroups minutes periodically. There is a link to these guidelines on the T10 web site at http://www.t10.org/t10_info.htm.

Antitrust Guidelines

ITI counsel developed the INCITS Antitrust Guidelines for the protection of INCITS and INCITS Subgroup members on antitrust issues. INCITS and INCITS Subgroup members must follow the INCITS Antitrust Guidelines.

Anticipate Risks

INCITS and INCITS subgroup meetings must be conducted in a manner that avoids the appearance of conduct which might violate the antitrust laws. The harsh criminal penalties in the antitrust laws, for individuals as well as organizations, the high costs of defending antitrust suits, the diversion of resources from our important missions, and the risk of liability together mandate an understanding of, and respect for, the antitrust laws by INCITS and its members. Our objective is to create a climate where antitrust risks are both anticipated and avoided.

Consult Counsel

Legal counsel should be consulted prior to any discussion of actions which the staff or INCITS believes could raise antitrust issues, or which seem in any way to be questionable or out of the ordinary. It is counsel's job to advise INCITS on any matters that have legal significance. It is always better to ask.

Notice and Agenda

Each INCITS or INCITS subgroup meeting must be preceded by a notice to the members of the committee with a draft agenda. As required by INCITS procedures, the agenda must be approved at the beginning of the meeting and followed.

Conduct of Meetings INCITS policy requires the full-time attendance of a member of the INCITS staff at every meeting sponsored by INCITS, except where otherwise approved. All participants should be afforded an opportunity to present their views. Acting on behalf of INCITS, INCITS staff or an INCITS officer or subgroup officer have the responsibility to terminate any discussion, seek counsel's advice or, if necessary, terminate any meeting if the discussion might be construed to raise questions under the INCITS antitrust guidelines.

Minutes of Meetings

After each INCITS or INCITS subgroup meeting, concise minutes must be prepared that accurately describe the actions taken, the justification for those actions, and where appropriate, additional pertinent discussion. These minutes must be prepared by a member of the INCITS staff or someone designated by an INCITS officer to prepare the minutes. When prepared by someone other than a member of the INCITS staff, the draft minutes shall be reviewed by the INCITS staff prior to distribution to the committee.

Sensitive Topics

With rare exceptions that should be made only upon the advice of INCITS counsel, there should never be discussion of the following topics at any INCITS or an INCITS subgroup meeting:

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

Standards

In INCITS sponsored committees related to standards, all relevant opinions should be considered and a sound technical basis for the INCITS position should be articulated. When participating in other standard-setting bodies on behalf of INCITS, INCITS representatives should be guided by both the letter and the spirit of the established procedures, which are designed to ensure that the process is open to all interested parties and standards are based on objective technical factors. INCITS members should voluntarily disclose any proprietary interest they may have in proposed standard in order to reduce the risk of antitrust liability.

Educational Presentations

Sharing non-proprietary information among competitors is generally lawful. Discussion should be limited to objectives, which promote overall consumer welfare. Exchanging proprietary information may not be appropriate, if the purpose or effect of the exchange is to lead to diminished competition in the marketplace.

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

John Lohmeyer reported that FCP-2 is still awaiting editor work to resolve a font issue, and the INCITS letter ballot is delayed until the editorial issues are resolved.

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

John Lohmeyer reported that the SAM-2 forwarding letter ballot passed 33:7:1:2=43 (see 02-123r1 for complete results). Ralph Weber reported that the SAM-2 letter ballot comments resolution document is 02-155, the current revision is r0 and an r1 will be prepared based on the results agreed by the CAP working group (minutes 02-160). It is anticipated that the comments resolution will be completed during special meeting times scheduled at the July meeting week. Voting on the resolutions will occur in September.

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

John Lohmeyer reported that the INCITS letter ballot on approval closes May 10th.

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

John Lohmeyer reported that the SPI-4 public review closed April 8th with one comment received from Gerry Houlder. Resolution of the comment is covered under item 10.4.1.

George Penokie reported that ISO SPI-3 is in final ISO editing and has received some requests for changes from the ISO editor. The draft containing those is revision 3 for ISO. George described some of the editorial changes. He noted that ISO acceptance of the revised draft is anticipated.

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

John Lohmeyer reported that SDV should be published as INCITS/TR-28:2002 later this month.

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

Erich Oetting reported that revision 4 was in the last meeting. Two proposals to be considered at this meeting will affect SMC-2. Erich stated that he might want to conduct a letter ballot on forwarding SMC-2 revision 5 sometime before the next meeting.

8.8 SCSI Signal Modeling (SSM) {Project 1414-DT} [Aloisi/Barnes]

John Lohmeyer reported that SSM should be published as INCITS/TR-29:2002 later this month. Larry Barnes agreed to continue on as SSM editor to finish the publication process.

8.9 SCSI RDMA Protocol (SRP) {Project 1415-D} [Simpson]

Cris Simpson reported that he is finishing up the letter ballot resolution (01-328). He stated that a vote on accepting the resolution is expected in July.

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

Ralph Weber reported that SPC-3 revision 6 contains all T10 approved proposals as of the last meeting and that SPC-3 revision 7 will be available in time for the next mailing. Ralph reminded the group of the following SPC-3 dates (see 02-110):

- o Editorial review meetings begin in November, 2002
- o Last new commands and data formats proposals accepted in March, 2003

- o Last change proposals accepted and letter ballot commences in May, 2003

Ralph Weber moved that SPC-3 revision 7 be accepted as the committee working draft for project 1416-D. John Lohmeyer seconded the motion. The motion passed on a vote of 36:0:0:7=43.

8.11 SCSI Block Commands - 2 (SBC-2) {Project 1417-D} [Elliott]

Rob Elliott reported that revision 6 will be available in time for the mailing and will contain the changes approved by this meeting.

8.12 Object-based Storage Devices Commands (OSD) {Project 1355-D} [Weber]

Ralph Weber reported that OSD revision 5 is the current draft. The SNIA OSD working group met on 23 April and resolved to:

- o Use Data-In and Data-Out buffers for only user data or only command/parameter data, but to reserve CDB fields to allow segmentation of the buffers for user data and command/parameter data;
- o Limit the size of the capabilities parameters to what will fit in the OSD variable length CDB; and
- o Work on defining the OSD attributes so that the CDB format can be finalized by the end of May.

Ralph noted that conference calls are planned by the SNIA group to discuss the above agreements.

Ralph stated that OSD revision 6 containing the finalized CDB formats will be available at the end of May, not in time for the next mailing.

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

Dave Peterson reported on the activities of the SSC-2 working group on letter ballot comments resolution (minutes in 02-137). This SSC-2 letter ballot comments resolution document is 02-081.

The issues being worked on in the SSC-2 comments resolution process are:

- o TapeAlert,
- o Undecompressable data,
- o Recording setmarks, and
- o Out of order command detection and processing.

The goal is to complete comments resolution in September.

8.14 SCSI Passive Interconnect Performance (PIP) {Project 1439-D} [Daggett]

Zane Daggett reported that PIP is moving along much faster than in the past and several editor's meetings are planned to cleanup the document. Revision 2 of the document is anticipated near the end of May, but not in time for the mailing. Letter ballot is anticipated following the July meeting.

8.15 SCSI Serial Bus Protocol -3 (SBP-3) {Project 1467-D} [Johansson]

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

8.16 SCSI Signal Modeling - 2 (SSM-2) {Project 1514-D} [Aloisi/Manildi]

Paul Aloisi reported on the activities of the SSM-2 working group (minutes in 02-132) and provided an electronic report in 02-176r0. He noted that Bruce Manildi has agreed to be the SSM-2 Technical Editor.

8.17 SCSI RDMA Protocol - 2 (SRP-2) {Project 1524-D} [Simpson]

Cris Simpson reported that work on SRP-2 is on hold until the SRP letter ballot resolution is finished which is anticipated in July. Cris asked the group to prepare for a discussion of SRP-2 requirements at the July CAP meeting.

8.18 SCSI Parallel Interface - 5 (SPI-5) {Project 1525-D} [Penokie]

George Penokie reported that SPI-5 rev 0 was posted last Friday. He reviewed the status of SPI-5 and the activities related to SPI-5 in the Parallel SCSI working group (minutes in 02-161). He stated that revision 1 will be available in time for the mailing and that a letter ballot is planned after the November T10 meeting.

8.19 SCSI Management Server Commands (MSC) {Project 1528-D} [Penokie/Elliott]

George Penokie reported that MSC work will be restarting toward the end of the year.

8.20 MultiMedia Command Set - 4 (MMC-4) {Project 1545-D} [McFerrin]

Bill McFerrin reported that the disclosure has finally been received for DVD+MRW, allowing critical MMC-4 work to proceed. Another major issue for the MMC-4 working group is obsolescence, because each new CD/DVD technology generation discards parts of the old command set but all of the old currently is documented along with the new.

8.21 Automation/Drive Interface - Physical Layer (ADP) {Project 1556-D} [Suhler/Griswold]

Bob Griswold reported on the activities of the ADI working group (minutes in 02-147).

8.22 Automation/Drive Interface - Transport Protocol (ADT) {Project 1557-D} [Suhler/Griswold]

This topic was covered in item 8.21.

8.23 Automation/Drive Interface - Commands (ADC) {Project 1558-D} [Suhler/Griswold]

This topic was covered in item 8.21.

8.24 SCSI Enclosure Services - 2 (SES-2) {Project 1559-D} [Elliott]

Rob Elliott reported that discussion of SES-2 proposals will begin in July.

9. Old Business**9.1 Style Guide [Moore]**

In the absence of Dennis Moore, there was no report on the style guide activities.

9.2 Project Proposal for a SCSI Parallel Interface - 6 (SPI-6) Standard (01-145) [Lohmeyer]

John Lohmeyer asked that discussion of this topic be deferred to the next meeting.

9.3 A/V Direct-Access Project Proposal (01-337) [Johansson]

In the absence of Peter Johansson, discussion of this topic be deferred to the next meeting.

9.4 Obsolete Reserve/Release (02-108r0) [Peterson]

Dave Peterson moved that 02-108r0 be approved for inclusion in SPC-3. Bill Galloway seconded the motion. The motion passed on a vote of 31:2:2:8=43.

10. New Business

10.1 Project Proposal for Serial Attached SCSI (02-098) [Lohmeyer]

John Lohmeyer led a discussion of the Serial Attached SCSI project proposal (02-098r0).

John Lohmeyer moved that T10 accept 02-098r0 for further processing at INCITS as a new project proposal. Mark Evans seconded the motion. The motion passed on a vote of 28:0:1:14=43.

Roger Cummings stated that his abstention is based on no being materially affected by the action.

John Lohmeyer took an action item to forward 02-098r0 to INCITS as a new project proposal for Serial Attached SCSI (SAS).

10.2 Project Proposal for SCSI Architecture Model - 3 (02-118r1) [Lohmeyer]

John Lohmeyer led a discussion of the SAM-3 project proposal, noting that CAP working group requested editorial changes and unanimously recommended approval of the revised project proposal.

George Penokie moved that T10 accept 02-118r1 for further processing at INCITS as a new project proposal. Bill Galloway seconded the motion. The motion passed on a vote of 29:0:0:14=43.

John Lohmeyer took an action item to forward 02-118r1 to INCITS as a new project proposal for SCSI Architecture Model -3 (SAM-3).

10.3 Project Proposal for Fibre Channel Protocol - 3 (02-138r1) [Peterson]

Dave Peterson and John Lohmeyer reviewed the FCP-3 project proposal, noting that several corrections were requested by the CAP working group. John reported that the CAP working group unanimously recommended approval of the FCP-3 project proposal.

Dave Peterson moved that T10 accept 02-138r1 for further processing at INCITS as a new project proposal. Brian Forbes seconded the motion. The motion passed on a vote of 29:0:0:14=43.

John Lohmeyer took an action item to forward 02-138r1 to INCITS as a new project proposal for Fibre Channel Protocol -3 (FCP-3).

10.4 Actions on Parallel SCSI Working Group Recommendations

10.4.1 Accept the SPI-4 PR comment (02-129r0) [Houlder]

George Penokie reviewed the SPI-4 public review comment (02-129r0). He noted that the working group recommended accepting the changes requested in the comment on a vote of 9:3:7. The working group also declared that the changes requested are substantive.

Gerry Houlder moved that the editor be instructed to modify SPI-4 as described in the public review comment (02-129r0). Paul Aloisi seconded the motion.

Mark Evans asked that everyone understand that this issue results from designing to "e.g. examples" and admonished everyone not to design to examples.

The motion passed on a vote of 26:2:5:10=43:

Mark Evans and Ron Roberts stated that their reason for voting no was a desire not to change the document and undergo a second public review.

All those who abstained stated that their reason was that they were not materially affected by the decision.

10.4.2 Link control message correction (02-150r1) [Galloway]

George Penokie described the contents of the 02-150r1 and 02-151r1 proposals.

He noted that, although the proposals were recommended by the working group for SPI-5, the fact that SPI-4 will undergo substantive change as a result of the public review comment resolution should be a motivation to T10 to include these corrective proposals in SPI-4 too.

Bill Galloway moved that 02-150r1 and 02-151r1 be approved for inclusion in SPI-4 and SPI-5. Mark Evans seconded the motion. The motion passed on a vote of 31:0:2:10=43.

George Penokie took an action item to prepare SPI-4 revision 10 including the resolution to the public review comment (02-129r0), the approved proposals 02-151r1, 02-151r1, and other editorial corrections agreed by the working group.

George Penokie moved that T10 accept the substantive public review comment and that SPI-4 revision 10 including substantive changes be forward to INCITS for processing toward second public review. Erich Oetting seconded the motion. The motion passed on a roll call vote of 24:2:5:12=43, details of the vote were as follows:

Organization	Stat	Name	Yes	No	Abs	NP
Adaptec, Inc.	P	Mr. Ron Roberts		1		
Amphenol Interconnect						1
Andiamo Systems, Inc.						1
BREA Technologies, Inc.	P	Mr. Bill Galloway	1			
Brocade Comm. Systems, Inc.	P	Mr. Brian Forbes	1			
Cisco Systems, Inc.	P	Mr. David Peterson	1			
Compaq Computer Corp.	P	Mr. Robert C. Elliott	1			
Congruent Software, Inc.						1
Crossroads Systems, Inc.	P	Mr. Robert Griswold			1	
Dallas Semiconductor	P	Mr. Titkwan Hui	1			
Dell Computer Corp.	A	Mr. Ronald Stockford	1			
EMC Corp.						1
Emulex						1
ENDL Texas	P	Mr. Ralph O. Weber	1			
Exabyte Corp.						1
FCI						1
Fujitsu						1
General Dynamics						1
Hewlett Packard Co.	P	Mr. Randy Haagens	1			
Hitachi Cable Manchester	A	Mr. Randy Wasylak	1			
IBM / Tivoli Systems	P	Mr. George O. Penokie	1			
Intel Corp.	P	Mr. Cris Simpson	1			
Iomega Corp.						1
KnowledgeTek, Inc.						1
LSI Logic Corp.	P	Mr. John Lohmeyer	1			

Maxtor Corp.	P	Mr. Mark Evans	1	
Microsoft Corp.	P	Ms. Emily Hill	1	
Molex Inc.	P	Mr. Jay Neer	1	
Nishan Systems Inc.	P	Mr. Charles Monia	1	
Ophidian Designs	P	Mr. Edward A. Gardner		1
Panasonic Technologies, Inc	P	Dr. Terence J. Nelson	1	
Philips Electronics/CD Edge	P	Mr. William P. McFerrin		1
Pirus Networks	A	Mr. Milan Merhar	1	
Quantum Corp.	P	Mr. Paul Entzel	1	
Seagate Technology	P	Mr. Gerald Houlder	1	
Silicon Image				1
Storage Technology Corp.	P	Mr. Erich Oetting	1	
Sun Microsystems, Inc.	P	Mr. Vit Novak	1	
Texas Instruments	P	Mr. Paul D. Aloisi	1	
Toshiba America Elec. Comp.	P	Mr. Tasuku Kasebayashi	1	
TycoElectronics	A#	Mr. Michael Wamsley	1	
Veritas Software	P	Mr. Roger Cummings		1
Vixel Corp.	P	Mr. Kenneth Hirata		1
			24	2
			5	12 = 43

George Penokie accepted an action item to revise SPI-4. John Lohmeyer accepted an action item to forward SPI-4 rev 10 to INCITS, which resolves the public review comment by making substantive changes to SPI-4, and to formally respond to the public review comment.

10.4.3 Negotiation Corrections (02-151r1) [Galloway]

This item was handled as part of item 10.4.2.

10.5 Actions on CAP Working Group Recommendations

10.5.1 SBC-2, SSC-2, SMC-2 & OSD Support For All Registrants Persistent Reservations (02-130r0) [Weber]

Ralph Weber explained that the purpose of 02-130r0 was propagating persistent reservations changes already made in SPC-3 revision 6 to the other command set documents and noted that it had been unanimously recommended by the CAP working group.

Ralph Weber moved that 02-130r0 be approved for inclusion in SBC-2, SSC-2, SMC-2 and OSD. Rob Elliott seconded the motion. The motion passed on a vote of 29:0:1:13=43.

10.5.2 SMC-2 Proposal: Read Element Status Device Identifier (02-104r3) [Banther]

George Penokie described 02-104r3 as affecting the medium changer Read Element Status command and noted that it was unanimously approved by the CAP working group.

Erich Oetting moved that 02-104r3 be approved for inclusion in SMC-2. Paul Entzel seconded the motion. The motion passed on a vote of 30:0:1:12=43.

10.5.3 SPC-3 AERC clarification (02-145r0) [Elliott]

George Penokie explained that 02-145r0 and 02-144r0 are clarifications of long standing SPC features. Ralph Weber explained that 02-134r2 is still a work in progress but that the CAP working group recommended that specific parts of the proposal be incorporated immediately in SPC-3 to support development of the SRP and iSCSI protocol standards. The working group supported this recommendation on a vote of 14:1:6.

Rob Elliott moved that 02-145r0 and 02-144r0 be approved for inclusion in SPC-3 and that those parts of 02-134r2 dealing with SPC-3 changes other than changes relating to mode pages also be approved for inclusion in SPC-3. Bill Galloway seconded the motion. The motion passed on a vote of 29:0:3:11=43.

10.5.4 SPC-3 Informational exceptions, linked commands, and CONDITION MET (02-144r0) [Elliott]

This item was handled as part of item 10.5.3.

10.5.5 SPC-3 Clearing effects of I_T nexus Loss (02-134r2) [Elliott]

This item was handled as part of item 10.5.3.

10.6 Actions on Other Working Group Recommendations

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

10.7 Actions on SAS Study Group Recommendations

10.7.1 SAS REPORT MANUFACTURER ID (02-165r1) [Roberts]

George Penokie and Bill Galloway reviewed the contents of 02-165r1, 02-168r0, and 02-167r1.

Ron Roberts moved that the SAS editor be instructed to incorporate 02-165r1, 02-168r0, and 02-167r1 in SAS revision 0. Mark Evans seconded the motion. The motion passed on a vote of 28:0:3:12=43.

10.7.2 ALIGN primitive encoding (02-168r1) [Galloway/Bastiani]

This item was handled as part of item 10.7.1.

10.7.3 SAS Error primitive (02-167r1) [Galloway]

This item was handled as part of item 10.7.1.

11. ISO/IEC

11.1 ISO/IEC Report [Robinson]

On behalf of Gary Robinson, John Lohmeyer reported that the ISO/IEC status is unchanged since March, the March ISO status report can be found in 02-105r0. Gary also asked that John note that 02-154 contains a summary of routine procedures and motions plus various appropriate forms.

11.2 ISO/IEC Business [Robinson]

No ISO business was brought before the meeting.

12. Liaison Reports

12.1 T11 Liaison Report [Forbes]

Brian Forbes presented the T11 liaison report contained in T10/02-164r1.

12.2 T13 Liaison Report [Colegrove]

Dan Colegrove presented the following electronic report from Pete McLean:

T13 Liaison Report - April 24, 2002

T13 met last in Longmont, CO on April 23 with 20 people present. Membership is currently 22 voting organizations.

Maintenance was required on ATA -3, ANSI X3.298-1997, by June 18. The committee voted to withdraw ATA-3.

The ATA/ATAPI-6 draft standard, T13/1410D, is currently at second public review closing 13 May 2002.

BIOS Enhanced Disk Drive Services draft standard, T13/1484D, is currently at first public review closing 13 May 2002.

Host Adapter Standard, T13/1510D, was reviewed. Technical content appears to be complete except for identifying the version of the ADMA standard the host adapter conforms to.

The ATA/ATAPI-7, T13/1532D, is in development. Proposals to obsolete the SEEK command and to reserve opcodes, ID words, SET FEATURES subcommands, and log pages for use by Serial ATA were approved for inclusion.

The Serial ATA consortium has notified T13 that the Serial ATA specification 1.0 will be forwarded to T13 for the development of an ANSI standard when technology and specification validation is complete. This is expected to happen the first half of 2003.

Phoenix Technologies will host the next plenary meeting June 25-26, 2002 at the Phoenix facility, 135 Technology Drive, Irvine, CA 92618. The meeting will start at 9 AM.

For further T13 information access <ftp.t13.org> or www.t13.org.

12.3 SFF Industry Group [Allan]

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

12.4 IEEE 1394 [Johansson]

In the absence of Peter Johansson, Bob Davis reported that 1394b was approved at the March IEEE meeting.

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

Paul Aloisi reported on the activities of STA and provided an electronic report that can be found in 02-177r0.

12.6 IETF SCSI over IP [Black/Robinson]

In the absence of David Black, no report was available.

13. Review of Action Items

472 Russ Brown will provide the SPI-5 editor with information suitable to developing the receive masks for Fast 320.

- 473 John Lohmeyer will to forward 02-098r0 to INCITS as a new project proposal for Serial Attached SCSI (SAS). *Complete.*
- 474 John Lohmeyer will to forward 02-118r1 to INCITS as a new project proposal for SCSI Architecture Model - 3 (SAM-3). *Complete.*
- 475 John Lohmeyer will to forward 02-138r1 to INCITS as a new project proposal for Fibre Channel Protocol -3 (FCP-3). *Complete.*
- 476 George Penokie will prepare SPI-4 revision 10 including the resolution to the public review comment (02-129r0), the approve proposals 02-151r1, 02-150r1, and other editorial corrections agreed by the working group. *Complete.*
- 477 John Lohmeyer will to forward SPI-4 revision 10 including substantive changes to INCITS for processing towards second public review. *Complete.*
- 478 John Lohmeyer will formally respond to the public review comment on SPI-4. *Complete.*

14. Meeting Schedule

The next plenary meeting of T10 will be Thursday July 18, 2002 in Colorado Springs, CO at the Wyndham Colorado Springs Hotel (719-260-1800), hosted by LSI Logic Corp. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

Other T10-authorized meetings:

Meeting	Date	Location / Contact
PIP Edit	05/17/02	Shrewsbury, MA / Ham
SBP-3 WG	05/29-30/02	Portland, OR / Johansson
PIP Edit	06/03/02	Shrewsbury, MA / Ham
SAS Prot WG	06/05-07/02	Minneapolis, MN / Coomes
SAS PHY WG	06/05-07/02	Minneapolis, MN / Coomes
SSM Edit	06/18/02	Lisle, IL / Molex
SSM WG	06/19/02	Lisle, IL / Molex
PIP WG	06/20/02	Lisle, IL / Molex
SAS Prot WG	06/24-26/02	Denver, CO / Lohmeyer
SAS Prot Calls	Weekly Tuesday am	To be announced via T10 reflector
SAS PHY Calls	Weekly Monday pm	To be announced via T10 reflector
SRP Conf. Calls	Weekly Friday am	To be announced via T10 reflector
PIP Edit	08/13/02	Buena Park, CA / Actuone-Foxconn
PIP WG	08/14/02	Buena Park, CA / Actuone-Foxconn
SSM WG	08/15/02	Buena Park, CA / Actuone-Foxconn
SAS Prot WG	08/21-23/02	TBD / TBD

Map Abbreviation Key:

ADI: Automation Drive Interface (tape library interface)
 Amnd: Amendment
 CAP: Commands, Architecture, and Protocols
 Fast-80: Data Transfer at 80 Mega-transfers/sec. (a.k.a., Ultra3,Ultra160)
 Fast-160: Data Transfer at 160 Mega-transfers/sec. (a.k.a., Ultra320)
 FC: Fibre Channel
 I/F: Interface
 IETF: Internet Engineering Task Force (the group that sets Internet standards)
 iFC: Internet Fibre Channel
 IPS: Internet Protocol SCSI
 iSCSI: Internet SCSI
 LB: Letter Ballot
 MMC: Multimedia Commands (CD-ROM, DVD, etc.)
 OSD: Object-based Storage Device
 Par.: Parallel (e.g., SPI-n)
 PH or PHY: Physical (Connectors, Cables, Transceivers, etc.)
 PIP: (SCSI) Passive Interconnect Performance
 Plenary: Full Committee Meeting
 Res: Resolution
 SAS: Serial Attached SCSI
 SBC-2: SCSI Block Commands - 2
 SCSI: Small Computer System Interface
 SES: SCSI Enclosure Services
 SFF: SFF Industry Group (not an NCITS activity)
 SG: Study Group
 SMC-2: SCSI Medium Changer - 2 Commands
 SPC-3: SCSI Primary Commands - 2 (3rd generation)
 SPI-4: Fourth Generation SCSI Parallel Interface
 SPI-5: Fifth Generation SCSI Parallel Interface
 SRP: SCSI RDMA Protocol (was SVP)
 SRP-2: SCSI RDMA Protocol (2nd generation)
 SSC-2: SCSI Stream Commands - 2 (includes Tape)
 SSM-2: SCSI Signal Modeling (2nd generation)
 SSWGs: Specific-Subject Working Groups
 STA: SCSI Trade Association (Closed meeting -- not an NCITS activity)
 STA Marcom: STA Marketing Communications (Closed meeting -- not an NCITS activity)
 STA Tech: STA Technical Meeting (T10 members invited)

T10: Lower Level Interfaces Technical Committee
 T11: Device Level Interfaces Technical Committee
 WG: Working Group (same as Ad Hoc Group)

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

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ADP, ADT, ADC	Bob Griswold	(512) 928-7272 rgriswold@crossroads.com
EPI	Bill Ham	(508) 841-2629 bill_ham@ix.netcom.com
PIP, PIP-2	Zane Daggett	(603) 669-4347 x236 zdaggett@hcm.hitachi.com
FCP-2, SES	Robert Snively	(408) 487-8135 rsnively@brocade.com
SBC-2, SES-2, SAS	Rob Elliott	(281) 518-5037 Robert.Elliott@compaq.com
MMC-2, MMC-3, MMC-4	Bill McFerrin	(303) 651-5400 bill.mcferrin@cdedge.com
SBP-2 or RBC	Pete McLean	(303) 678-2149 pete_mclean@maxtor.com
SBP-2, SBP-3	Peter Johansson	(510) 527-3926 PJohansson@ACM.org
SCC-2, SPI-4, SPI-5, MSC	George Penokie	(507) 253-5208 gpenokie@tivoli.com
SDV	Terry Gibbons	(719) 533-7499 terry.gibbons@lsil.com
SMC, SMC-2	Erich Oetting	(303) 673-2178 Erich_Oetting@Stortek.com
SPC-3, SAM-2, SAM-3, OSD	Ralph Weber	(214) 912-1373 roweber@acm.org
SSC, SSC-2, FCP-3	Dave Peterson	(612) 802-3299 dap@cisco.com
SRP, SRP-2	Cris Simpson	(503) 712-4333 cris.simpson@intel.com
SSM, SSM-2	Paul Aloisi	(603) 222-8687 paul_aloisi@ti.com
Other Activities	John Lohmeyer	(719) 533-7560 lohmeier@t10.org

The long-term T10 meeting week schedule is:

Date	Location	Host/Comments
Jul 15-19, 2002	Colorado Springs, CO	LSI Logic
Sep 9-13, 2002	Minneapolis, MN	Cisco / [CHANGED]
Nov 4-8, 2002	Huntington Beach, CA	QLogic
Jan 13-17, 2003	Portland, OR	Intel
Mar 10-14, 2003	Dallas, TX	T.I.
May 5-9, 2003	Nashua, NH	Hitachi Cable
Jul 14-18, 2003	Colorado Springs, CO	LSI Logic
Sep 8-12, 2003	Seattle, WA	Microsoft
Nov 3-7, 2003	Austin, TX	Crossroads

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.

Charles Monia moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved through the end of August 2002. Ron Stockford seconded the motion. In the absence of any objections, the motion passed unanimously.

14.2 SBP-3 Tentative Meeting Schedule

Peter Johansson provided the following tentative meeting schedule for the SBP-3 working group:

May 29 - 30 (Portland, OR)

July 16 - 17 (Colorado Springs, CO) [two-day meeting that week]

15. Adjournment

The meeting was adjourned at 11:20 a.m. on Thursday May 2, 2002.

Enclosure(1) -- Meeting Attendees

Name	S	Organization	Electronic Mail Address
Mr. Ron Roberts	P	Adaptec, Inc.	Ron_Roberts@adaptec.com
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Mr. Bill Galloway	P	BREA Technologies, Inc.	billg@breatech.com
Mr. Brian Forbes	P	Brocade Comm. Systems, Inc.	bforbes@brocade.com
Mr. David Peterson	P	Cisco Systems, Inc.	dap@cisco.com
Mr. Robert C. Elliott	P	Compaq Computer Corp.	Robert.Elliott@compaq.com
Mr. George Eisler	P	Conexant/Mindspeed	geisler@aol.com
Mr. Robert Griswold	P	Crossroads Systems, Inc.	rgriswold@crossroads.com
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Mr. Ralph O. Weber	P	ENDL Texas	roweber@acm.org
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Mr. George O. Penokie	P	IBM / Tivoli Systems	gop@us.ibm.com
Mr. Cris Simpson	P	Intel Corp.	cris.simpson@intel.com
Mr. Tim Bradshaw	P	Iomega Corp.	bradshat@iomega.com
Mr. John Lohmeyer	P	LSI Logic Corp.	lohmeyer@t10.org
Ms. Jie Fan	P	Madison Cable Corp.	jie.fan@madisoncable.com
Mr. Mark Evans	P	Maxtor Corp.	mark_evans@maxtor.com
Ms. Emily Hill	P	Microsoft Corp.	emhill@microsoft.com
Mr. Jay Neer	P	Molex Inc.	jneer@molex.com
Mr. James R. (Bob) Davis	P	Network Appliance Inc.	bob@netapp.com
Mr. Charles Monia	P	Nishan Systems Inc.	cmonia@nishansystems.com
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Mr. Tasuku Kasebayashi	P	Toshiba America Elec. Comp.	task.kasebayashi@tais.toshiba.com
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Mr. Roger Cummings	P	Veritas Software	roger.cummings@veritas.com
Mr. Kenneth Hirata	P	Vixel Corp.	Ken.Hirata@Vixel.com
Mr. Tom Hanan	P	Western Digital Corporation	tom.hanan@wdc.com

44 People Present

Status Key: P - Principal
A,A# - Alternate
AV - Advisory Member
L - Liaison
V - Visitor

Enclosure(2) -- T10 Attendance Database

Generated on 2002/05/03 at 13:29:11

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Enclosure(3) -- T10 Document Database

Generated on 2002/05/03 at 13:28:42

T10/02-001R0 Date: 2001/11/21 Author: Greg Vaupotic Mailing: 2002_1
Absence of Insertion Loss Anti-Resonance in Shielded Pairs having High Skew

T10/02-002R0 Date: 2001/11/27 Author: Paul Suhler Mailing: 2002_1
ADI: Seagate Encapsulated SCSI Protocol

T10/02-003R0 Date: Author: Mailing: Missing
not used

T10/02-004R0 Date: 2001/11/28 Author: Cris Simpson Mailing: 2002_1
Proposed Model Clause for SRP

T10/02-005R0 Date: Author: Mailing: Missing
not used

T10/02-006R0 Date: Author: Mailing: Missing
not used

T10/02-007R0 Date: 2001/11/01 Author: Rod Wideman Mailing: 2002_1
MC_DTE_Comments

T10/02-008R0 Date: 2001/12/04 Author: Paul Suhler Mailing: 2002_1
Project Proposal: ADI: Project Proposal for Automation/Drive Interface -
Commands (ADC)

T10/02-009R0 Date: 2001/12/04 Author: Paul Suhler Mailing: 2002_1
Project Proposal: ADI: Project Proposal for Automation/Drive Interface -
Transport Protocol (ADT)

T10/02-010R0 Date: 2001/12/04 Author: Paul Suhler Mailing: 2002_1
Project Proposal: ADI: Project Proposal for Automation/Drive Interface -
Physical Layer (ADP)

T10/02-011R0 Date: 2001/12/07 Author: Michael Banther Mailing: 2002_1
A Specification for a Tape Drive Automation Controller Interface

T10/02-012R0 Date: 2001/12/07 Author: Michael Banther Mailing: 2002_1
A Specification for an Automation Controller Interface - Slide

T10/02-013R0 Date: 2001/12/07 Author: Paul Entzel Mailing: 2002_1
ADI Transport Layer Proposal, Paketized Serial Protocol

T10/02-014R0 Date: 2001/12/13 Author: Paul Suhler Mailing: 2002_1
ADI Working Group Agenda (January 15, 2002)

T10/02-014R1 Date: 2002/01/15 Author: Paul Suhler Mailing: 2002_1
ADI Working Group Agenda (January 15, 2002)

T10/02-015R0 Date: 2001/12/16 Author: William P. Mailing: 2002_1
McFerrin
MMC-4 Document Structural Plan

T10/02-015R1 Date: 2002/01/18 Author: Bill McFerrin Mailing: 2002_1
MMC-4 Document Structural Plan

T10/02-016R0 Date: 2001/12/18 Author: Robert C. Elliott Mailing: 2002_1

SPC-3 TST field description

T10/02-016R1 Date: 2002/01/17 Author: Robert C. Elliott Mailing: 2002_1
SPC-3 TST field description

T10/02-017R0 Date: 2001/12/18 Author: Robert C. Elliott Mailing: 2002_1
SPC-3 sense data size limit

T10/02-018R0 Date: 2001/12/20 Author: Robert Snively Mailing: 2002_1
T11 Liaison Report to T10, January 17, 2002

T10/02-019R0 Date: 2001/12/11 Author: William Ham Mailing: 2002_1
Minutes: Draft minutes PIP Dec 2001

T10/02-019R1 Date: 2002/02/26 Author: William Ham Mailing: 2002_2
Approved minutes Dec 2001 PIP

T10/02-020R0 Date: 2001/12/13 Author: William Ham Mailing: 2002_1
Minutes: Draft minutes SSM Dec 2001

T10/02-021R0 Date: 2001/12/31 Author: Lee Jesionowski Mailing: 2002_2
ADI - IBM Library/Drive Interface Presentation

T10/02-022R0 Date: 2001/12/31 Author: Lee Jesionowski Mailing: 2002_1
ADI - IBM Library/Drive Interface Specification

T10/02-023R0 Date: 2002/01/02 Author: Paul Suhler Mailing: 2002_1
SSC-2 Working Group Agenda (January 14, 2002)

T10/02-023R1 Date: 2002/01/14 Author: Paul Suhler Mailing: 2002_1
SSC-2 Working Group Agenda (January 14, 2002)

T10/02-024R0 Date: 2002/01/14 Author: Paul Suhler Mailing: 2002_1
Minutes of SSC-2 Working Group (January 14, 2002)

T10/02-025R0 Date: 2002/01/04 Author: Robert C. Elliott Mailing: 2002_1
SPC-3 Unit Attention interlock and Asynchronous Event Reporting

T10/02-026R0 Date: 2002/01/04 Author: Robert C. Elliott Mailing: 2002_1
SPC-3 REQUEST SENSE during pending-enrolled state

T10/02-026R1 Date: 2002/01/17 Author: Robert C. Elliott Mailing: 2002_1
SPC-3 REQUEST SENSE during pending-enrolled state

T10/02-027R0 Date: 2002/01/15 Author: Weber & Lohmeyer Mailing: 2002_1
Minutes of Parallel SCSI Working Group - January 15, 2002

T10/02-028R0 Date: 2002/01/16 Author: Weber & Lohmeyer Mailing: 2002_1
Minutes of SCSI CAP Working Group - January 16, 2002

T10/02-029R0 Date: 2002/01/21 Author: Weber & Lohmeyer Mailing: 2002_1
Minutes of T10 Plenary Meeting #47 - January 17, 2002

T10/02-030R0 Date: 2002/01/08 Author: Michele Hallak- Mailing: 2002_1
Stamler, Yaron
Lederman

SCSI MIB draft

T10/02-031R0 Date: 2002/01/08 Author: Mark Bakke Mailing: 2002_1

SCSI MIB UML model

T10/02-031R1	Date: 2002/04/26	Author: Mark Bakke	Mailing: 2002_3
SCSI MIB UML model			
T10/02-032R0	Date:	Author:	Mailing: Missing
not used			
T10/02-033R0	Date: 2002/01/08	Author: Robert Griswold	Mailing: 2002_1
Crossroads 972 Patent Letter			
T10/02-034R0	Date: 2002/01/09	Author: George O. Penokie	Mailing: 2002_1
Duplicate Tag ASC Correction in SPI-4			
T10/02-034R1	Date: 2002/01/24	Author: George O. Penokie	Mailing: 2002_1
Duplicate Tag ASC Correction in SPI-4			
T10/02-035R0	Date: 2002/01/10	Author: David Peterson	Mailing: 2002_1
Logical Unit Unique Identifier/Type			
T10/02-035R1	Date: 2002/03/05	Author: David Peterson	Mailing: 2002_2
MD5 Logical Unit Identifier			
T10/02-035R2	Date: 2002/03/27	Author: David Peterson	Mailing: 2002_3
MD5 Logical Unit Identifier			
T10/02-035R3	Date: 2002/04/03	Author: David Peterson	Mailing: 2002_3
MD5 Logical Unit Identifier			
T10/02-036R0	Date: 2002/01/10	Author: Paul Entzel	Mailing: 2002_1
Quantum's patent policy for ADI standandards			
T10/02-037R0	Date: 2002/01/11	Author: Robert Griswold	Mailing: 2002_1
MSC Management commands proposal			
T10/02-037R1	Date: 2002/02/28	Author: Robert Griswold	Mailing: 2002_2
MSC Management Commands Proposal			
T10/02-038R0	Date: 2002/01/11	Author: Russ Brown	Mailing: 2002_1
Ultra640 SCSI Receiver Offset Issues			
T10/02-039R0	Date: 2002/01/11	Author: Bruce Leshay	Mailing: 2002_1
Ultra640 SCSI Training Pattern Proposal			
T10/02-040R0	Date:	Author:	Mailing: Missing
not used			
T10/02-041R0	Date:	Author:	Mailing: Missing
not used			
T10/02-042R0	Date:	Author:	Mailing: Missing
not used			
T10/02-043R0	Date: 2002/01/11	Author: Marjorie Krueger	Mailing: 2002_1
Understanding the SCSI MIB			
T10/02-043R1	Date: 2002/01/16	Author: Marjorie Krueger	Mailing: 2002_1
Understanding the SCSI MIB			

T10/02-044R0 Date: 2002/01/14 Author: Joe Breher Mailing: 2002_1
Resolving ambiguity in sense data information field for sequential buffered mode

T10/02-045R0 Date: 2002/01/15 Author: Bill Petty Mailing: 2002_1
Driver/Receiver Asymmetry Correction

T10/02-046R0 Date: 2002/01/15 Author: William Ham Mailing: 2002_1
Background for Compaq no vote on SPI-4

T10/02-047R0 Date: 2002/01/15 Author: Bill Petty Mailing: 2002_1
Ultra640 Timing Budget

T10/02-047R0 Date: 2002/01/15 Author: Bill Petty Mailing: 2002_1
Ultra640 Timing Budget

T10/02-047R1 Date: 2002/03/12 Author: Bill Petty Mailing: 2002_2
Ultra640 Timing Budget

T10/02-047R1 Date: 2002/03/12 Author: Bill Petty Mailing: 2002_2
Ultra640 Timing Budget

T10/02-048R0 Date: 2002/01/15 Author: Paul D. Aloisi Mailing: 2002_1
Twist and Flat - Backplane issues for SPI-5

T10/02-049R0 Date: 2002/01/15 Author: Paul D. Aloisi Mailing: 2002_1
SSM plenary report jan 2002

T10/02-050R0 Date: 2002/01/15 Author: Paul D. Aloisi Mailing: 2002_1
STA Plenary report Jan 2002

T10/02-051R0 Date: 2002/01/16 Author: Roger Cummings Mailing: 2002_1
Minutes: 1/14/2002 SCSI MIB Study Group Meeting Summary

T10/02-052R0 Date: 2002/01/16 Author: A. Bruce Manildi Mailing: 2002_1
Cable Models and Procedures

T10/02-052R1 Date: 2002/01/16 Author: Bruce Manildi & Mailing: 2002_1
Umesh Chandra
Cable Models and Procedures

T10/02-053R0 Date: 2002/01/17 Author: Gary Robinson Mailing: 2002_1
SC25 Projects Status

T10/02-054R0 Date: 2002/01/15 Author: Paul Suhler Mailing: 2002_1
ADI Projects Overview

T10/02-055R0 Date: 2002/01/17 Author: Cris Simpson Mailing: 2002_1
Comments on SRP NOTURG proposal

T10/02-056R0 Date: 2002/01/17 Author: George O. Penokie Mailing: 2002_1
Limiting 3rd-party Reservations to a Single Protocol

T10/02-056R1 Date: 2002/01/24 Author: George O. Penokie Mailing: 2002_1
Limiting 3rd-party Reservations to a Single Protocol

T10/02-056R2 Date: 2002/03/13 Author: George O. Penokie Mailing: 2002_2
Limiting 3rd-party Reservations to a Single Protocol

T10/02-056R3 Date: 2002/03/24 Author: G. Penokie, as revised by R. Weber Mailing: 2002_2
Limiting 3rd-party Reservations to a Single Protocol

T10/02-057R0 Date: 2002/01/18 Author: William P. McFerrin Mailing: 2002_1
Minutes: January 14, 2002 MMC WG Meeting Minutes

T10/02-058R0 Date: 2002/01/18 Author: William P. McFerrin Mailing: 2002_1
MMC WG Response to ANSI Editor Questions and Comments

T10/02-059R0 Date: 2002/01/15 Author: Paul Suhler Mailing: 2002_1
Minutes: ADI Working Group (January 15, 2002)

T10/02-060R0 Date: 2002/01/23 Author: John Lohmeyer Mailing: 2002_1
Agenda for T10 Meeting #48 (March 2002)

T10/02-060R1 Date: 2002/01/29 Author: John Lohmeyer Mailing: 2002_2
Agenda for T10 Meeting #48 (March 2002)

T10/02-060R2 Date: 2002/02/01 Author: John Lohmeyer Mailing: 2002_2
Agenda for T10 Meeting #48 (March 2002)

T10/02-060R3 Date: 2002/02/07 Author: John Lohmeyer Mailing: 2002_2
Agenda for T10 Meeting #48 (March 2002)

T10/02-060R4 Date: 2002/02/28 Author: John Lohmeyer Mailing: 2002_2
Agenda for T10 Meeting #48 (March 2002)

T10/02-061R0 Date: 2002/01/23 Author: John Lohmeyer Mailing: 2002_1
T10 Project Summary - January 2002

T10/02-062R0 Date: 2002/01/23 Author: John Lohmeyer Mailing: 2002_1
Jeopardy Letter for March 2002 meeting

T10/02-063R0 Date: 2002/01/23 Author: Kevin Gingerich Mailing: 2002_2
ADI Electrical-Layer Spec Proposals

T10/02-064R0 Date: 2002/01/23 Author: Edward A. Gardner Mailing: 2002_1
SRP normal and solicited message reception (comment OD006)

T10/02-064R1 Date: 2002/01/24 Author: Edward A. Gardner Mailing: 2002_1
SRP normal and solicited message reception (comment OD006)

T10/02-064R2 Date: 2002/01/31 Author: Edward A. Gardner Mailing: 2002_2
SRP normal and solicited message reception (comment OD006)

T10/02-064R3 Date: 2002/02/15 Author: Edward A. Gardner Mailing: 2002_2
SRP normal and solicited message reception (comment OD006)

T10/02-064R4 Date: 2002/03/08 Author: Edward A. Gardner Mailing: 2002_2
SRP normal and solicited message reception (comment OD006)

T10/02-065R0 Date: 2002/01/26 Author: Robert C. Elliott Mailing: 2002_2
SPC-3 Persistent reservations corrections

T10/02-065R1 Date: 2002/03/07 Author: Robert C. Elliott Mailing: 2002_2

SPC-3 Persistent reservations corrections

T10/02-065R2 Date: 2002/03/15 Author: Robert C. Elliott Mailing: 2002_2
SPC-3 Persistent reservations corrections

T10/02-066R0 Date: 2002/01/29 Author: Robert Griswold Mailing: 2002_2
Crossroads 421 Patent Letter

T10/02-067R0 Date: 2002/01/29 Author: Robert C. Elliott Mailing: 2002_2
SAM-2 Remove TAGGED OVERLAPPED TASKS additional sense code

T10/02-068R0 Date: 2002/01/18 Author: Deborah J. Mailing: 2002_2
Donovan
2002 Five-Year Maintenance Review of Standards

T10/02-069R0 Date: 2002/02/07 Author: Peter Johansson Mailing: 2002_2
Bridge-aware SBP-3 target operations

T10/02-069R1 Date: 2002/03/26 Author: Peter Johansson Mailing: 2002_3
Bridge-aware SBP-3 target operations

T10/02-070R0 Date: 2002/02/11 Author: Robert C. Elliott Mailing: 2002_2
SAM-2 Execute Command output descriptions

T10/02-071R0 Date: 2002/02/20 Author: Robert C. Elliott Mailing: 2002_2
SAM-2 Asynchronous event reporting RPC

T10/02-072R0 Date: 2002/02/21 Author: Paul D. Aloisi Mailing: 2002_2
SSM minutes for the February 20th meeting

T10/02-073R0 Date: 2002/02/21 Author: Jason Chou Mailing: 2002_2
SSM Instrument probe modeling

T10/02-074R0 Date: 2002/02/22 Author: Gary S. Robinson Mailing: 2002_2
NWIP for SPI-4

T10/02-075R0 Date: 2002/02/22 Author: Peter Johansson Mailing: 2002_2
EUI-48 protocol ID VPD page

T10/02-075R1 Date: 2002/03/01 Author: Peter Johansson Mailing: 2002_2
EUI-48 software interface ID VPD page

T10/02-076R0 Date: 2002/02/22 Author: Paul Suhler Mailing: 2002_2
Minutes: SSC-2 Working Group (March 11, 2002)

T10/02-077R0 Date: 2002/02/22 Author: Paul Suhler Mailing: 2002_2
SSC-2 Working Group Agenda (March 11, 2002)

T10/02-077R1 Date: 2002/04/10 Author: Paul Suhler Mailing: 2002_3
SSC-2 Working Group Agenda (March 11, 2002)

T10/02-078R0 Date: 2002/02/22 Author: Mallikarjun Mailing: 2002_2
Chadalapaka,
Randy Haagens

Reservations & Nexus

T10/02-078R1 Date: 2002/02/27 Author: Mallikarjun Mailing: 2002_2
Chadalapaka,
Randy Haagens

Reservations & Nexus

T10/02-079R0 Date: 2002/02/22 Author: Russ Brown Mailing: 2002_2
Proposal for offset correction for Ultra640 SCSI for SPI-5

T10/02-079R1 Date: 2002/03/12 Author: Russ Brown Mailing: 2002_2
Proposal for offset correction for Ultra640 SCSI for SPI-5

T10/02-080R0 Date: 2002/02/25 Author: Gary S. Robinson Mailing: 2002_2
NWIP for FCP2

T10/02-081R0 Date: 2002/02/25 Author: David Peterson Mailing: 2002_2
SSC-2 Letter Ballot Comment Responses

T10/02-081R1 Date: 2002/03/05 Author: David Peterson Mailing: 2002_2
SSC-2 Letter Ballot Comment Responses

T10/02-081R2 Date: 2002/04/29 Author: David Peterson Mailing: 2002_3
SSC-2 Letter Ballot Comment Responses

T10/02-082R0 Date: 2002/02/26 Author: William Ham / Zane Daggett Mailing: 2002_2
Minutes: Draft minutes Feb 2002 PIP

T10/02-082R1 Date: 2002/04/02 Author: William Ham / Zane Daggett Mailing: 2002_3
Minutes: Approved minutes PIP Feb 2002

T10/02-083R0 Date: 2002/02/27 Author: Paul Suhler Mailing: 2002_2
ADI Working Group Agenda (March 12, 2002)

T10/02-084R0 Date: 2002/03/12 Author: Paul Suhler Mailing: 2002_2
Minutes: ADI Working Group (March 12, 2002)

T10/02-085R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Attenuation #1 Bulk cable round robin 2.xls

T10/02-086R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Impedance #2 Bulk cable round robin 2.xls

T10/02-087R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Impedance #3 Bulk cable round robin 2.xls

T10/02-088R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Impedance #4 Bulk cable round robin 2.xls

T10/02-089R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Tabular data Bulk cable round robin 2.xls

T10/02-090R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Attenuation #2 Bulk cable round robin 2.xls

T10/02-091R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Attenuation #3 Bulk cable round robin 2.xls

T10/02-092R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2
Attenuation #4 Bulk cable round robin 2.xls

T10/02-093R0 Date: 2002/02/27 Author: Greg Vaupotic Mailing: 2002_2

Impedance #1 Bulk cable round robin 2.xls

T10/02-094R0 Date: 2002/02/28 Author: Robert C. Elliott Mailing: 2002_2
Project proposal for SCSI Enclosure Services - 2 (SES-2)

T10/02-095R0 Date: 2002/02/28 Author: Joe Breher Mailing: 2002_2
SSC-2 sense data INFORMATION field redux

T10/02-096R0 Date: 2002/03/01 Author: Giles Frazier Mailing: 2002_2
Sending Write Data with SRP Commands

T10/02-097R0 Date: 2002/02/28 Author: Rod Wideman Mailing: 2002_2
ADI Drive Polling Frames

T10/02-097R1 Date: 2002/04/15 Author: Rod Wideman Mailing: 2002_3
ADI Drive Polling Frames

T10/02-098R0 Date: 2002/03/04 Author: John Lohmeyer Mailing: 2002_2
Project Proposal for Serial Attached SCSI (SAS)

T10/02-099R0 Date: 2002/03/05 Author: Michael Banther Mailing: 2002_2
Bi-Directional Control Patent Disclosure

T10/02-100R0 Date: 2002/03/12 Author: Weber & Lohmeyer Mailing: 2002_2
Minutes of Parallel SCSI Working Group - March 12, 2002

T10/02-100R1 Date: 2002/03/25 Author: Weber & Lohmeyer Mailing: 2002_2
Minutes of Parallel SCSI Working Group - March 12, 2002

T10/02-101R0 Date: 2002/03/13 Author: Weber & Lohmeyer Mailing: 2002_2
Minutes of SCSI CAP Working Group - March 13, 2002

T10/02-102R0 Date: 2002/03/18 Author: Weber & Lohmeyer Mailing: 2002_2
Minutes of T10 Plenary Meeting #48 - March 14, 2002

T10/02-102R1 Date: 2002/03/25 Author: Weber & Lohmeyer Mailing: 2002_2
Minutes of T10 Plenary Meeting #48 - March 14, 2002

T10/02-103R0 Date: 2002/03/05 Author: Ralph O. Weber Mailing: 2002_2
Driving to the March T10 Meeting Site

T10/02-104R0 Date: 2002/03/06 Author: Michael Banther Mailing: 2002_2
SMC-2 Proposal: Read Element Status Device Identifier

T10/02-104R1 Date: 2002/04/16 Author: Michael Banther Mailing: 2002_3
SMC-2 Proposal: Read Element Status Device Identifier

T10/02-104R2 Date: 2002/04/19 Author: Michael Banther Mailing: 2002_3
SMC-2 Proposal: Read Element Status Device Identifier

T10/02-105R0 Date: 2002/03/06 Author: Gary S. Robinson Mailing: 2002_2
ISO Project Status Spreadsheet

T10/02-106R0 Date: 2002/03/06 Author: Paul Suhler Mailing: 2002_2
ADI: Required and Optional SCSI Commands

T10/02-106R1 Date: 2002/04/02 Author: Paul Suhler Mailing: 2002_3
ADI: Required and Optional SCSI Commands

T10/02-106R2	Date: 2002/04/16	Author: Paul Suhler	Mailing: 2002_3
ADI SCSI Commands			
T10/02-107R0	Date: 2002/03/06	Author: Robert Snively	Mailing: 2002_2
T11 Liaison, February 2002			
T10/02-108R0	Date: 2002/03/06	Author: David Peterson	Mailing: 2002_2
Obsolete Reserve/Release in SPC-3			
T10/02-109R0	Date: 2002/03/07	Author: Cris Simpson	Mailing: 2002_2
Bit positions for SOLNT control bits in SRP_LOGIN_REQ			
T10/02-110R0	Date: 2002/03/09	Author: Ralph O. Weber	Mailing: 2002_2
SPC-3 Schedule			
T10/02-111R0	Date: 2002/03/11	Author: Paul D. Aloisi	Mailing: 2002_2
SSM Plenary Report			
T10/02-111R1	Date: 2002/03/14	Author: Paul D. Aloisi	Mailing: 2002_2
SSM Plenary Report			
T10/02-112R0	Date: 2002/03/11	Author: Paul D. Aloisi	Mailing: 2002_2
STA & STATEch Plenary Report			
T10/02-113R0	Date: 2002/03/12	Author: William Petty	Mailing: 2002_2
SPI-5 Timing Budget			
T10/02-114R0	Date: 2002/03/12	Author: Gerald Houlder	Mailing: 2002_2
Inconsistent use of 'assertion and negation' in SPI-4			
T10/02-114R1	Date: 2002/03/27	Author: Gerald Houlder	Mailing: 2002_3
Inconsistent use of 'assertion and negation' in SPI-4			
T10/02-115R0	Date: 2002/03/12	Author: Gerald Houlder	Mailing: 2002_2
SPC-3 table 230 incorrect			
T10/02-116R0	Date: 2002/03/13	Author: Robert Griswold	Mailing: 2002_2
ADI SG Questions to the CAP			
T10/02-116R1	Date: 2002/04/03	Author: Robert Griswold	Mailing: 2002_3
ADI SG Questions to the CAP			
T10/02-117R0	Date: 2002/03/13	Author: William P. McFerrin	Mailing: 2002_2
Minutes: MMC WG Meeting Minutes, 13 March 2002			
T10/02-117R1	Date: 2002/03/17	Author: William P. McFerrin	Mailing: 2002_2
MMC WG Meeting Minutes, 13 March 2002			
T10/02-118R0	Date: 2002/05/02	Author: John Lohmeyer and Ralph Weber	Mailing: 2002_2
Project Proposal for SCSI Architecture Model - 3 (SAM-3)			
T10/02-118R1	Date: 2002/05/01	Author: John Lohmeyer and Ralph Weber	Mailing: 2002_3
Project Proposal for SCSI Architecture Model - 3 SAM-3)			
T10/02-119R0	Date: 2002/03/15	Author: Ralph O. Weber	Mailing: 2002_2

This is not a revision of SAM-3

T10/02-120R0 Date: 2002/03/24 Author: Ralph O. Weber Mailing: 2002_2
ISO SPC-2 Revision History

T10/02-121R0 Date: 2001/11/28 Author: Cris Simpson Mailing: 2002_2
Draft minutes of SRP WG - March 14 , 2002

T10/02-122R0 Date: 2002/03/19 Author: John Lohmeyer Mailing: 2002_2
Letter Ballot on forwarding SAM-2 to first public review

T10/02-123R0 Date: 2002/04/22 Author: John Lohmeyer Mailing: 2002_3
Results of letter ballot on forwarding SAM-2 to first public review

T10/02-123R1 Date: 2002/04/23 Author: John Lohmeyer Mailing: 2002_3
Results of letter ballot on forwarding SAM-2 to first public review

T10/02-124R0 Date: 2002/03/19 Author: John Lohmeyer Mailing: 2002_2
Agenda for T10 Meeting #49 (May 2002)

T10/02-124R1 Date: 2002/04/09 Author: John Lohmeyer Mailing: 2002_3
Agenda for T10 Meeting #49 (May 2002)

T10/02-125R0 Date: 2002/03/19 Author: John Lohmeyer Mailing: 2002_2
T10 Project Summary - March 2002

T10/02-126R0 Date: 2002/03/19 Author: John Lohmeyer Mailing: 2002_2
Jeopardy Letter for May 2002 meeting

T10/02-127R0 Date: 2002/03/21 Author: Cris Simpson Mailing: 2002_2
Model concerns for LOGOUT signal

T10/02-127R1 Date: 2002/03/26 Author: Cris Simpson Mailing: 2002_3
Model concerns for LOGOUT signal

T10/02-128R0 Date: 2002/03/25 Author: Michael Banther Mailing: 2002_2
Explicit Address Write Sequence Identifier

T10/02-128R1 Date: 2002/04/19 Author: Michael Banther Mailing: 2002_3
Explicit Write Sequence Ordering

T10/02-129R0 Date: 2002/03/29 Author: Gerry Houlder Mailing: 2002_3
Public Review Comment #1 on INCITS 362 (SPI-4)

T10/02-130R0 Date: 2002/04/01 Author: Ralph O. Weber Mailing: 2002_3
SBC-2, SSC-2, SMC-2 & OSD Support For All Registrants Persistent Reservations

T10/02-131R0 Date: Author: Mailing: Missing
not used

T10/02-132R0 Date: 2002/04/04 Author: Paul D. Aloisi Mailing: 2002_3
SSM Minutes 4-April-2002

T10/02-133R0 Date: 2002/04/05 Author: Paul Entzel Mailing: 2002_3
Physical interconnect for DLT drives to tape automation systems

T10/02-134R0 Date: 2002/04/06 Author: Robert C. Elliott Mailing: 2002_3
SAM-2 SPC-3 SBC-2 SSC-2 Clearing effects of I_T nexus loss

T10/02-134R1 Date: 2002/04/19 Author: Robert C. Elliott Mailing: 2002_3
SAM-2 SPC-3 SBC-2 SSC-2 Clearing effects of I_T nexus loss

T10/02-134R2 Date: 2002/05/01 Author: Robert C. Elliott Mailing: 2002_3
SAM-2 SPC-3 SBC-2 SSC-2 Clearing effects of I_T nexus loss

T10/02-135R0 Date: 2002/04/08 Author: Paul Suhler Mailing: 2002_3
ADI Conference Call Agenda (April 15, 2002)

T10/02-136R0 Date: 2002/04/08 Author: Paul Suhler Mailing: 2002_3
SSC-2 Working Group Agenda (April 29, 2002)

T10/02-137R0 Date: 2002/05/29 Author: Paul Suhler Mailing: Missing
Minutes: SSC-2 Working Group (April 29, 2002)

T10/02-138R0 Date: 2002/04/08 Author: David Peterson Mailing: 2002_3
Project Proposal: FCP-3 Project Proposal

T10/02-138R1 Date: 2002/05/01 Author: David Peterson Mailing: 2002_3
Project Proposal: FCP-3 Project Proposal

T10/02-139R0 Date: 2002/04/15 Author: Paul Suhler Mailing: 2002_3
ADI Working Group Agenda (April 30, 2002)

T10/02-140R0 Date: 2002/04/11 Author: Tuong Vu Mailing: 2002_3
SONY Automation/Drive Serial Interface Proposed Specification

T10/02-141R0 Date: 2002/04/11 Author: David Peterson Mailing: 2002_3
Persistent Reserve Out Functionality for Reserve/Release Replacement

T10/02-142R0 Date: 2002/04/12 Author: Michael Banther Mailing: Missing
TapeAlert Specification Version 3.0

T10/02-143R0 Date: 2002/04/02 Author: William Ham / Mailing: 2002_3
Zane Daggett
Minutes: Draft minutes PIP April 02, 2002

T10/02-144R0 Date: 2002/04/16 Author: Robert C. Elliott Mailing: 2002_3
SPC-3 Informational exceptions, linked commands, and CONDITION MET

T10/02-145R0 Date: 2002/04/16 Author: Robert C. Elliott Mailing: 2002_3
SPC-3 AERC clarification

T10/02-146R0 Date: 2002/04/17 Author: Joe Breher Mailing: 2002_3
Minutes: ADI Ad Hoc con call, 2002apr15

T10/02-147R0 Date: 2002/04/30 Author: Paul Suhler Mailing: Missing
Minutes: ADI Working Group (April 30, 2002)

T10/02-148R0 Date: 2002/04/19 Author: Michael Banther Mailing: 2002_3
Comparison of Physical and Link Protocols

T10/02-149R0 Date: 2002/04/19 Author: Robert C. Elliott Mailing: Missing
SPC-3 Port-specific mode page clarifications

T10/02-150R0 Date: 2002/04/19 Author: Bill Galloway Mailing: 2002_3
Link control message correction

T10/02-150R1 Date: 2002/04/29 Author: Bill Galloway Mailing: 2002_3

Link control message correction

T10/02-151R0 Date: 2002/04/21 Author: Bill Galloway Mailing: 2002_3
Negotiation Corrections

T10/02-151R1 Date: 2002/04/29 Author: Bill Galloway Mailing: 2002_3
Negotiation Corrections

T10/02-152R0 Date: 2002/04/22 Author: Edward A. Gardner Mailing: 2002_3
SAM-2 comments

T10/02-153R0 Date: 2002/04/22 Author: Randy Haagens Mailing: 2002_3
Diagrams pertaining to HP comments on sam2r23

T10/02-154R0 Date: 2002/04/23 Author: Gary S. Robinson Mailing: 2002_3
ISO/IEC JTC1 Relations with T10 and T11

T10/02-155R0 Date: 2002/04/28 Author: Ralph O. Weber Mailing: 2002_3
Response to T10 Letter Ballot comments on SAM-2

T10/02-155R1 Date: 2002/04/29 Author: Ralph O. Weber Mailing: Missing
Response to T10 Letter Ballot comments on SAM-2

T10/02-156R0 Date: 2002/04/24 Author: John Lohmeyer Mailing: 2002_3
Letter Ballot Jeopardy Letter - May 2002

T10/02-157R0 Date: 2002/04/25 Author: Robert C. Elliott Mailing: 2002_3
SAS Proposed Serial Attached SCSI working draft

T10/02-158R0 Date: 2002/04/29 Author: Robert C. Elliott Mailing: 2002_3
SAS Serial Attached SCSI technical overview

T10/02-159R0 Date: 2002/05/01 Author: Weber & Lohmeyer Mailing: 2002_3
Minutes of Serial Attached SCSI Study Group - April

T10/02-160R0 Date: 2002/05/01 Author: Weber & Lohmeyer Mailing: Missing
Minutes of SCSI CAP Working Group - May 1, 2002

T10/02-161R0 Date: 2002/04/30 Author: Weber & Lohmeyer Mailing: 2002_3
Minutes of Parallel SCSI Working Group - April 29, 2002

T10/02-162R0 Date: 2002/05/02 Author: Weber & Lohmeyer Mailing: Missing
Minutes of T10 Plenary Meeting #49 - May 2, 2002

T10/02-163R0 Date: 2002/04/25 Author: Russ Brown and Mailing: 2002_3
Mehran Aliahmad
Ultra640 SCSI, Reduction of Crosstalk Errors During Timing Deskew

T10/02-164R0 Date: 2002/04/26 Author: Brian Forbes Mailing: 2002_3
T11 Liaison Report, April 11, 2002

T10/02-164R1 Date: 2002/04/30 Author: Brian Forbes Mailing: 2002_3
T11 Liaison Report, April 11, 2002

T10/02-165R0 Date: 2002/04/26 Author: Kyle Sterling Mailing: 2002_3
SAS SMP REPORT MANUFACTURER INFO

T10/02-165R1 Date: 2002/04/29 Author: Kyle Sterling Mailing: Missing
SAS SMP REPORT MANUFACTURER INFO

T10/02-166R0	Date: 2002/04/26	Author: Alvin Cox	Mailing: 2002_3
SAS connector location on form factors			
T10/02-167R0	Date: 2002/04/26	Author: Bill Galloway	Mailing: 2002_3
SAS Error primitive			
T10/02-167R1	Date: 2002/04/29	Author: Bill Galloway	Mailing: 2002_3
SAS Error primitive			
T10/02-168R0	Date: 2002/04/28	Author: Bill Galloway	Mailing: 2002_3
SAS ALIGN Primitives			
T10/02-168R1	Date: 2002/04/29	Author: Bill Galloway	Mailing: 2002_3
SAS ALIGN Primitives			
T10/02-169R0	Date: 2002/04/28	Author: Bill Galloway	Mailing: 2002_3
SAS XFER_RDY Rules			
T10/02-169R1	Date: 2002/04/29	Author: Bill Galloway	Mailing: Missing
SAS XFER_RDY Rules			
T10/02-170R0	Date: 2002/04/28	Author: Bill Galloway	Mailing: Missing
SAS Wide Link Rules			
T10/02-171R0	Date: 2002/04/26	Author: Ron Roberts	Mailing: Missing
SAS PHY CONTROL reuquest proposal			
T10/02-172R0	Date: 2002/04/28	Author: Alvin Cox	Mailing: 2002_3
SAS External Connectors			
T10/02-173R0	Date: 2002/04/28	Author: Alvin Cox	Mailing: 2002_3
SAS Internal Connectors			
T10/02-174R0	Date: 2002/04/29	Author: Ron Roberts	Mailing: Missing
SAS PHY Control Request Modification			
T10/02-175R0	Date: 2002/04/30	Author: Ralph O. Weber	Mailing: 2002_3
SAS AEN Needs Work			
T10/02-176R0	Date: 2002/05/01	Author: Paul D. Aloisi	Mailing: 2002_3
SSM-2 May 2002 Report			
T10/02-177R0	Date: 2002/05/01	Author: Paul D. Aloisi	Mailing: 2002_3
STA & STATEch May 2002 Report			
T10/02-178R0	Date: 2002/05/01	Author: Cris Simpson	Mailing: Missing
Draft May 2 SRP WG meeting minutes			