

Accredited Standards Committee*

National Committee for Information Technology Standards (NCITS)

Doc. No.: T10/98-148r0

Date: May 13, 1998

Reply to: John Lohmeyer

To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: T10 Plenary Meeting #26 -- May 7, 1998
Colorado Springs, CO

Agenda

1. Opening Remarks
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 - 8.20 SCSI Parallel Interface - 3 (SPI-3) {Project 1302-D} [Penokie]
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9. Old Business
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- 10.2.1 Add PLPB feature to mode page 19h (98-106r1) [Houlder]
- 10.2.2 Making the Terminate Task Management Function Obsolete [Snively]
- 10.2.3 New Log Page Requirements (98-128r2) [Snively]
- 10.2.4 Persistent Reservations clarifications for SPC-2 (98-124r2) [Snively]
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Results of Meeting

1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday May 7, 1998. He thanked Symbios 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:

- 10.2.1 Add PLPB feature to mode page 19h (98-106r1) [Houlder]
- 10.2.2 Making the Terminate Task Management Function Obsolete [Snively]
- 10.2.3 New Log Page Requirements (98-128r2) [Snively]
- 10.2.4 Persistent Reservations clarifications for SPC-2 (98-124r2) [Snively]
- 10.3 Making Extent Reservations Obsolete [Snively]
- 10.4 Making the Change Definition Command Obsolete [Snively]

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

11.2.1 Instructions to ISO/IEC JTC 1/SC 25/WG 4 Delegation [Milligan]

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 vote at the second plenary meeting. Working group meetings do not count toward attendance requirements.

Organizations must also pay the NCITS Service Fee (\$300) to maintain membership. The ANSI International Program Fee (also \$300) is billed at the same time. Alternatively, organizations may join T10 with the experimental Organizational Membership; this membership option costs \$2500 and includes one principal member, any number of alternates, and either two CD-ROM mailings or one CD_Access mailing.

John briefly discussed the mailing fees. Complete pricing information is contained in the 1998 membership form (available at ftp://ftp.symbios.com/t10/pub/standards/io/t10/mem_form.txt).

The Chair said he had sent letters to 7 people from 4 organizations informing them that their membership was in jeopardy due to non-attendance (see 98-003r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

Ancot Corp.
Distributed Processing Technology
FSI Consulting Services
SyQuest Technology, Inc.

All of the organizations were present except:

FSI Consulting Services

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).

No organizations requested new membership at this meeting.

The T10 membership during the meeting was 51 organizations down from 52 organizations last time. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current T10 membership list.

4. Approval of Minutes - March '98 Meeting San Diego, CA (T10/98-127r1)

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.nw.dc.us) (202) 626-5741.

John reminded the committee that George Penokie has assumed the position of vice-chair, replacing Larry Lamers, who resigned at the last meeting. However, John will take over the tasks of assigning document numbers and preparing mailings. John asked the committee members to request document numbers from himself. The process of producing mailings and maintaining web sites was discussed.

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 14, 1998. 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 e-mail (at lohmeier@ix.netcom.com), placed on the SCSI BBS (719-533-7950), or they can be transferred by ftp protocol to [ftp.symbios.com](ftp://ftp.symbios.com) and placed in the /pub/standards/io/incoming directory. In the latter two cases, please also send an e-mail to John informing him of the file name and location of the file.

As usual, minutes are also available on the SCSI BBS (719-533-7950), the T10 World Wide Web page (see below), and will be distributed to the T10 Reflector.

To be added to the T10 Reflector, send an e-mail to majordomo@symbios.com with the line 'subscribe t10' in the message body. The NCITS Secretariat maintains a World Wide Web page at <http://www.ncits.org/>. Symbios maintains a World Wide Web page on behalf of T10 at <http://www.symbios.com/t10/>.

The current document register is enclosure (3). The T10 document register is also available on the SCSI BBS in file DR.TXT and at <ftp://ftp.symbios.com/pub/standards/io/t10/dr.txt>.

John Lohmeyer noted and Dal Allan concurred that the copyright notice appearing on the T10 mailing CD label does not apply to the drafts and documents contained thereon. Dal reported that a more appropriate notice will appear on the next T10 mailing CD label and that the copyright electronic information on the CD is already correct.

6. Call for Patents

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

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.

John reported that he had verified the above information, as requested during the last meeting.

7. Review of Old Action Items

- 261) John Lohmeyer will verify the ANSI patent policy URL shown in the committee minutes. *Complete.*
- 262) John Lohmeyer will forward the T10 file retention policy to NCITS for approval. *Complete.*
- 263) Gene Milligan will report on how handle the normative reference to ESDI in SCSI-2. *Overtaken by events*
- 264) John Lohmeyer will forward SPI-2 revision 20 to NCITS for further processing towards first public review. *Complete.* (Due to an editorial problem revision 20a was forwarded.)

8. Project Status Reports

8.1 Project Status Summary and NCITS/OMC Liaison [Lohmeyer]

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

NCITS is in the process of updating their web site format. They will be needing short abstracts for all active projects. Gene Milligan reported that a specific form must be used to provide the project abstract. John Lohmeyer took an action item provide the project abstract form to all project editors. John asked all project editors to send the completed project abstract forms to him.

8.2 SPI Amendment (SPIAmnd) {Project 0855-D} [Johansson/Lamers]

John Lohmeyer reported that the SPI Amendment is at BSR and should finish processing for publication soon.

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

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

8.4 SCSI-3 Block Commands (SBC) Status {Project 996-D} [Milligan]

Gene Milligan reported that he has not received a review copy of SBC. John asked Gene Milligan to watch for a review copy of SBC and noted that ANSI should be contacted if a review copy does not arrive soon.

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

The problems completing the public review SSC revision were discussed. Gene Milligan moved that T10 cancel the SSC project unless a technical editor is identified by the July Plenary meeting. Bob Snively seconded the motion. After a brief discussion, Gene Milligan moved to table the motion. Peter Johansson seconded the motion to table. The motion to table passed unanimously.

8.6 SCSI-3 Medium Changer Commands (SMC) Status {Project 999-D} [Oetting]

Erich Oetting reported that SMC is almost published. He noted that minor glitches have been found in table listing the commands applicable to SMC devices. Since SMC is almost published, no action was taken.

8.7 Multimedia Command Set (MMC) Status {Project 1048-D} [Roberts]

John Lohmeyer reported that MMC is in publication phase.

8.8 SCSI Parallel Interface - 2 (SPI-2) {Project 1142-D} [Ham/Penokie]

John Lohmeyer reported that the public review of SPI-2 closes July 7, 1998.

8.9 SCSI Enhanced Parallel Interface (EPI) Technical Report {Project 1143-D} [Ham]

John Lohmeyer reported that EPI revision 14 was reviewed in the working group (minutes in 98-147). An editor's meeting has been scheduled for June 12, 1998. John is making arrangements for the meeting room and teleconference access.

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

Bob Snively reported that he is accumulating lists of proposed and approved changes for FCP-2. He reported that making the list is his only current activity.

8.11 Serial Bus Protocol - 2 (SBP-2) {Project 1155-D} [Johansson]

Peter Johansson made an oral report to the committee and provided the following electronic report for the minutes.

Since the March T10 plenary in San Diego, CA, the SBP-2 ad hoc working group has met once, May 6, 1998 in Colorado Springs, CO (minutes in 98-168). Most of the meeting was devoted to remaining SBP-2 letter ballot comment resolution, with the following results:

- In resolution of comments submitted during the T10 letter ballot, the CLEAR TASK SET and TERMINATE TASK functions have been removed and the definition of the q bit in the Logical_Unit_Number entry has been deleted.
- The removal of the isochronous portions of SBP-2 (approved by the T10 plenary in November) was reviewed for accuracy.
- The recommendations of T10/98-121r2, which permit a target to retain target resources for more than one second after a bus reset, have been incorporated. The working group considers this a timely modification to SBP-2 since it extends the usefulness of the protocol to a larger class of devices and has no impact on existing implementations.
- A review of SBP-2 Draft 3d revealed minor editorial improvements.

As a consequence of these action, the working group recommends, by a vote of 13:0, to the T10 plenary that SBP-2 Draft 4 be forwarded to NCITS for further processing (public review). With this action, comments received during the letter ballot of SBP-2 are fully resolved.

In addition to the above, the working group discussed a project proposal for isochronous extensions to SBP-2. There was consensus that it is at present premature to act upon this project proposal and the working group recommends to the plenary that it be deleted from the plenary agenda.

No future meetings of the SBP-2 ad hoc working group are planned. The need for such meetings, if any, will be addressed upon completion of the NCITS public review period.

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

Ralph Weber reported that two revisions of SAM-2 have been prepared since the last meeting. Editorial issues for SAM-2 were discussed and resolved at the working group meeting (minutes in 98-147). Revision 6, containing all the changes agreed at the working group meeting will be prepared in time for the mailing. Revision 7 will be prepared in time for the July meeting and will have all the object notation replaced by equivalent English text.

8.13 SCSI-3 Enclosure Commands (SES) {Project 1212-D} [Snively]

John Lohmeyer reported that SES should go to ANSI BSR within the next few weeks.

8.14 High Availability Profile (HAP) Technical Report {Project 1224-DT} [Hagerman]

Doug Hagerman reported that no progress has been made on HAP.

8.15 SCSI Controller Commands - 2 (SCC-2) {Project 1225-D} [Penokie]

John Lohmeyer reported that the NCITS letter ballot on forwarding SCC-2 closes on June 2, 1998.

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

Ron Roberts reported that hacking continues on MMC-2, putting the Mt. Fuji documents in MMC-2.

Ron announced the following document revision schedule. Revision 6a to the FTP site by May 15, 1998. Revision 7 by June 9, 1998. Revision 8 to plenary for letter ballot in September.

Ron reported that the meeting schedule for the MMC-2 working group is:

- June 9 and 10, 1998 in Tustin, CA (near Irvine) hosted by SSI
- No meeting in July
- August 4 and 5, 1998 in Longomont, CO hosted by Philips
- September 15 and 16 in St. Petersburg, FL.

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

Ralph Weber reported that all known approved proposals have been incorporated in SPC-2 revision 2.

Ralph Weber moved that type code 0Fh be assigned in SPC-2 to ISO/IEC 14776-381 "SCSI Specification for Optical Card Reader/Writer". Gene Milligan second the motion. The motion passed unanimously.

8.18 Reduced Block Commands (RBC) {Project 1240-D} [Bryan]

Pete McLean reported on the activities of the RBC working group meeting (minutes in 98-167). He stated that the meeting concluded with no outstanding technical issues. He informed the committee that forwarding activities for RBC will begin in July or September.

8.19 SCSI Socket/SSL Services Command Set (SSS) {Project 1246-D} [Parker]

In the absence of Keith Parker, no report was made.

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

George Penokie reported on the activities of the SPI-3 working group (minutes in 98-146). He noted that no draft revision of SPI-3 has been created yet, and he is waiting for a critical mass of approved changes. George noted that two working groups have been proposed for May 22, 1998 and June 19, 1998.

Gene Milligan moved that the chair be instructed to notify the T10 Reflector that T10 is planning to remove all HVD discussion from SPI-3. John Lohmeyer seconded the motion. The motion passed unanimously. John Lohmeyer took action item to notify the T10 Reflector that T10 is planning to remove all HVD discussion from SPI-3.

8.21 SCSI Enclosure Profile (SEP) Technical Report {Project 1303-DT} [Weber]

Ralph Weber reported no activity on this project.

9. Old Business

9.1 Resolution of SBP-2 Letter Ballot Comments [Johansson]

Based on the unanimous working group recommendation, Peter Johansson moved that T10 forward SBP-2 revision 4 to NCITS for further processing for first public review, and that SBP-2 revision 4 be accepted as resolving the letter ballot comments. Steve Finch seconded the motion. The motion passed 30:0:0:21=51.

Based on the successful resolution of his letter ballot comments, Steve Finch asked that his negative letter ballot vote be changed to an affirmative vote.

Peter Johansson took an action item to prepare SBP-2 revision 4 for public review. John Lohmeyer took an action item to forward SBP-2 revision 4 to NCITS for processing toward first public review.

9.2 Recommendation that ESDI (X3.170 and X3.170a) be withdrawn [Milligan]

John reported on the motion deferred from the March meeting:

“Gene Milligan moved that X3.170 and X3.170a be withdrawn. Erich Oetting seconded the motion. Gene Milligan moved that consideration be deferred to the May meeting. Larry Lamers seconded the motion to defer. The motion to defer passed 32:3:0:17=52.”

Gene Milligan noted that no implementations he is aware of use the ESDI synchronize spindle referenced by SCSI-2. So, the issue of a SCSI-2 reference to a withdrawn standard should be considered moot.

The motion passed on a roll-call vote of 34:0:0:17=51.

The details of the roll call vote were as follows:

Organization	Name	Yes	No	Abs	NP
Adaptec, Inc.	Mr. Lawrence J. Lamer	1			
AMP, Inc.	Mr. Scott Lindstrom	1			
Amphenol Interconnect					1
Ancot Corp.	Mr. Bart Raudebaugh	1			
Apple Computer	Mr. Ron Roberts	1			
Berg Electronics	Mr. Douglas Wagner	1			
Cable Design Technologies					1
Ciprico Inc.					1
Circuit Assembly Corp.					1
Compaq Computer Corp.	Mr. Robert C. Elliott	1			
Congruent Software, Inc.	Mr. Peter Johansson	1			
Dallas Semiconductor					1
Data General / Clariion	Mr. Greg McSorley	1			
Digital Equipment Corp.	Mr. Douglas Hagerman	1			
Diogenes SCSI					1
Distributed Processing Tech.	Mr. Roger Cummings	1			
Eastman Kodak Co.	Mr. Keith Freeberg	1			
ENDL	Mr. I. Dal Allan	1			
Exabyte Corp.	Mr. Tom Jackson	1			
Fujitsu (FCPA)	Mr. Don Vohar	1			
Harting, Inc. of N. America	Mr. Marcos Barrionuev	1			
Hewlett Packard Co.	Mr. J. R. Sims	1			
Hitachi Cable Manchester, Inc					1
Hitachi Storage Products					1
Honda Connectors					1
IBM Corp.					1

Iomega Corp.	Mr. Tim Bradshaw	1	
KnowledgeTek, Inc.			1
Linfinit Micro	Mr. Dean Wallace	1	
LSI Logic Corp.	Mr. Alan Littlewood	1	
Madison Cable Corp.			1
Maxtor Corp.	Mr. Pete McLean	1	
Methode Electronics, Inc.			1
Molex Inc.			1
Mylex Corp.			1
Ophidian Designs	Mr. Edward A. Gardner	1	
Philips Electronics	Mr. William P. McFerr	1	
QLogic Corp.	Mr. Skip Jones	1	
Quantum Corp.	Mr. Mark Evans	1	
Seagate Technology	Mr. Gene Milligan	1	
Silicon Systems, Inc.	Mr. Dave Guss	1	
Sony Electronics, Inc.	Mr. Janek Rebalski	1	
Storage Technology Corp.	Mr. Erich Oetting	1	
Sun Microsystems Computer Co	Mr. Robert N. Snively	1	
Symbios, Inc.	Mr. John Lohmeyer	1	
SyQuest Technology, Inc.	Ms. Randi Mitchem	1	
Toshiba America Elec. Comp.			1
UNISYS Corporation			1
Unitrode Corporation	Mr. Paul D. Aloisi	1	
Western Digital Corporation	Mr. Jeffrey L. Willia	1	
Woven Electronics	Mr. Doug Piper	1	
		34	0 0 17 = 51

John Lohmeyer took an action item to notify NCITS that T10 has recommended the withdrawal of X3.170 and X3.170a.

9.3 SCSI-2 Revision [Milligan]

The committee agreed that no effort to revise SCSI-2 should be undertaken until the standard comes up for its five-year review. The matter of the reference to the withdrawn ESDI was added to the list of issues to be considered during the review. Document 94-143 contains a list of know issues with SCSI-2.

10. New Business

10.1 Project Proposal for Isochronous Serial Bus Protocol (ISP) (98-137r0) [Finch]

Steve Finch reported on the history of the Isochronous Serial Bus Protocol project proposal. He described concerns that T10 might not be the correct location for work on isochronous storage devices. He indicated that the 1394 trade association or the audio-visual working group might be more appropriate locations for work on isochronous storage devices. Steve asked that this item be deleted from this and future agenda.

10.2 Actions on Working Group Recommendations

10.2.1 Add PLPB feature to mode page 19h (98-106r1) [Houlder]

Bob Snively moved that T10 accept 98-106r1 for inclusion in FCP-2. Dal Allan seconded the motion. It was noted that the working group unanimously recommended approval. The motion passed unanimously.

10.2.2 Making the Terminate Task Management Function Obsolete [Snively]

Citing rejected Gene Milligan comment number 127 from the SPI-2 forwarding letter ballot and review (98-108r2), Bob Snively moved that the Terminate Task task management function be made obsolete in SAM-2, SPC-2, SPI-3, FCP-2, and other SCSI standards that have not been forwarded. Peter Johansson seconded the motion. Ralph Weber reported that the working group unanimously recommended the change. The motion passed unanimously.

10.2.3 New Log Page Requirements (98-128r2) [Snively]

Bob Snively reviewed the content of the proposals. Based on the unanimous recommendation of the working group, Bob Snively moved that 98-128r2 be approved for inclusion in SPC-2. George Penokie seconded the motion. The motion passed 27:0:2:12=51.

10.2.4 Persistent Reservations clarifications for SPC-2 (98-124r2) [Snively]

Bob Snively described the proposal as group corrections discovered during implementation of persistent reservations. Based on the unanimous recommendation of the working group, Bob Snively moved that 98-124r2 be approved for inclusion in SPC-2. Paul Aloisi seconded the motion. The motion passed unanimously.

10.3 Making Extent Reservations Obsolete [Snively]

In the absence of any objections, T10 assigned the Chair an action item to notify the T10 Reflector that T10 intends to make extent reservations obsolete for both Reserve and Persistent Reserve commands in SPC-2.

10.4 Making the Change Definition Command Obsolete [Snively]

In the absence of any objections, T10 assigned the Chair an action item to notify the T10 Reflector that T10 intends to make the Change Definition command obsolete in SPC-2.

11. ISO

11.1 ISO Report [Milligan]

T10 ISO Summary 5/98

The bulk of the report will be sent out by reflector and/or ftp.

- Assignment of Device Type 0Fh for OMC Reader/Writers and request for T10 review of 98-151r0 draft from Japan.
- SPI CD comment resolution and DIS text still needed.
- Fast-20 CD comment resolution and DIS text still needed.
- SAM DIS comment resolution and IS text still needed.
- SSC editor needed.
- SPI-2 NWIP and CD submitted for processing.
- SBP-2 awaiting draft for submitting NWIP and CD.
- SES NWIP and CD submitted for processing.
- SCC-2 NWIP and CD submitted for processing.
- NCITS has appointed Gary Robinson Liaison to T10, T11, T12, and T13.
- ISO/IEC is publishing a T12 >900 page standard on CD-ROM - no paper.
- JTC 1 TAG has nominated Tom Frost of Lucent for Chair of ISO/IEC JTC 1
- SC 25/WG 4 meeting 5/25 - 5/27; joint SC 25/WG 4 and SC 26 meeting 5/28; and SC 25 plenary 5/29. 1394 is on the agenda of the joint meeting.

- NCITS has formed a new Technical Committee to be the TAG for SC 22 Java Study Group. Formation meeting 5/21.
- JTC 1 N 5180, JTC 1 Policy on Electronic Document Distribution Using the World Wide Web
- The US TAG for the committee on multi media standards IEC TC100 Advisory Group on Strategy (AGS) has a call out for Chairman and US representative.
- An appeal has been submitted due to an apparent loss of the Brazil vote to provide resources for the following projects:
 - SCSI-3 SIP (JTC1 N5107 / N5208), project 25.13.11.04,
 - SCSI-3 SPC (JTC1 N5108 / N5209), project 25.13.11.03,
 - SCSI-3 SBC (JTC1 N5095 / N5207), project 25.13.11.10which resulted in the NWI failing.

11.2 ISO Business [Milligan]

11.2.1 Instructions to ISO/IEC JTC 1/SC 25/WG 4 Delegation [Milligan]

Roger Cummings moved that T10 instruct its delegation to ISO/IEC JTC 1/SC 25/WG 4 to: 1) Promote the adoption of T10 developed standards as international and EC standards, 2) Provide the Optical Memory Card Reader/Writer device type code, 3) Take under advisement the Optical Memory Card Reader/Writer comments from the working group and T10 Reflector. Bob Snively seconded the motion. The motion passed unanimously.

11.2.2 Comment Resolution on SPI

This item was discussed in the ISO report.

11.2.3 Comment Resolution on Fast-20

This item was discussed in the ISO report.

11.2.4 Comment Resolution on SAM

This item was discussed in the ISO report.

11.2.5 Comment Resolution on FCP or SCC

This item was discussed in the ISO report.

12. Liaison Reports

12.1 T11 Liaison Report [Cummings]

Roger Cummings presented an oral report to the committee and provided the following electronic report for the minutes.

79 people attended the April T11 Plenary. Optivision, Systran and TI lost membership. Pathlight Technology & Troika Networks were added as new member organizations. The membership of T11 is now 80 organizations. The total attendance for the T11 week was 142 people.

Two new T11 Task Groups were established during the April T11 Plenary week, as follows:

- a) T11.3 (Interconnection Schemes)
Chair Rich Taborek (G2 Networks)
Vice-Chair Jeff Stai (Brocade)
Initial membership of 46 organizations
- b) T11.4 (Protocol Mappings)
Chair Ed Lee (EMF Associates)
Vice-Chair Kumar Malavalli (Brocade)
Initial membership of 43 organizations

Four new project proposals were announced as approved. They were:

- a) FC-10KCR (1300-D)
- b) FC-AL-3 (1304-D)
- c) FC-SW-2 (1305-D)
- d) FC-PI'98 (1306-D)

It was also agreed to change the name of FC-PI'98 to FC-PI.

The FC-TAPE & FC-MJS-2 projects were reported to be approved, but numbers have yet been assigned.

First Public Reviews on Revised HIPPI-FP & FC-SW were reported to have closed with no comments submitted. Management Reviews on these projects will occur at the next OMC meeting.

DPANS for the HIPPI-6400-PH & HIPPI-6400-SC projects passed compliance review at the March 1998 OMC meeting. The drafts have been assigned NCITS 323:199x and NCITS 324:199x respectively. Both drafts are in first Public Review closing on 6/9/98.

Project Proposals for FC-FS (Frame Signaling) & FC-VI (VI Architecture mapping) project proposals were forwarded by meeting votes of F46-O00-DNV34 and F50-O00- DNV30 respectively. FC-FS will continue the development of the functionality of the FC-PH standards which is not contained in FC-PI.

T11 is making good progress on electronic procedures and a high degree of automation. A first T11 electronic mailing has been distributed. Over 200 documents have been submitted to the ftp site and automatically numbered. It is now possible to change the representatives (P, A & A#) for an organization via the web page. It is also now possible for T11 meeting attendees to change their address details online. The first two electronic T11 letter ballots (on the FC-10KCR and MJS projects) are currently in progress and will close on 5/30.

The next T11 meetings will be hosted by AMP during the week of June 8-12 at the Tradewinds Hotel, 5500 Gulf Boulevard, St. Petersburg Beach, FL 33706. The telephone number is (813)367-6461, ext. 110, and the rate is \$119/night plus tax for a standard room. The cutoff date for reservations is 5/11. The Plenary meetings will be held as follows:

- a) T11.1 on June 10 @ 6-9pm
- b) T11.2 on June 10 @ 1-6pm
- c) T11.3 on June 11 @ 9am-1pm
- d) T11.4 on June 9 @ 5-9pm
- e) T11 on June 11 @ 2-7pm

12.2 T13 Liaison Report [Milligan]

Gene Milligan reported on the activities of the most recent T13 meeting.

12.3 SFF Industry Group [Allan]

Dal Allan made an oral report to the committee and provided the following electronic report for the minutes.

No interim SSWG's (Specific Subject Working Group) have been held since the last T10 plenary week.

Jay Neer uncovered a missing dimension on the SCA-2 connector specification that will delay publication of SFF-8451 and that of the companion EIA version as well.

The suite of 2 1/2", 3 1/2" and 5 1/4" form factor specifications will expire because all three are EIA or about-to-be EIA standards. EIA only offers hard copy versions of standards, so the usual practice of retiring expired specifications will not be followed. The front cover will be modified to note existence of the standard, and the specification is to remain available in an electronic form.

Bill Ham reported that there will be a SSWG on high-speed serial in Harrisburg, PA. Bob Snively reported that a GBIC SSWG will be held during the July T10 meeting week.

12.4 IEEE 1394 [Johansson]

Peter Johansson made an oral report to the committee and provided the following electronic report for the minutes.

The IEEE has commenced the Sponsor Ballot for draft standard IEEE P1394a. Printed copy of P1394a Draft 2.0 has been distributed to the ballot pool, which consists of slightly more than 100 participants. The ballot closes June 11, 1998, after which time the Chair will convene a Ballot Response Committee (BRC) to resolve whatever comments are submitted. If the comments result in significant technical changes, the IEEE will conduct a recirculation ballot, the result of which may be approval of the draft standard without further comment.

The most recent draft revisions are available in PDF from the FTP site, <ftp://ftp.symbios.com/pub/standards/io/1394/P1394a>. Meeting minutes, past drafts and other documents are also available at the FTP site.

For reflector announcements, STDS-1394@IEEE.org; subscribe by sending a message to Listserve@IEEE.org.

No future meetings of P1394a are scheduled.

P1394b, chaired by David Wooten, next meets in June 11 - 12 in St. Petersburg, FL. David has organized focused task groups to resolve issues such as long-haul cables, standard cables and their connectors, the PHY/link interface, signaling start-up protocol, steady-state protocol, protocol accelerations, data flow, encoding schemes, etc.

For reflector announcements, P1394b@Zayante.com; subscribe by automated Majordomo services at listserve@zayante.com.

P1394.1 (bridges) is making improved progress since the conclusion of P1394a has released many of the key individuals. The next meeting of the working group is June 9 - 10, 1997, in St. Petersburg, FL. For reflector announcements, STDS-1394-1@IEEE.org; subscribe by sending a message to Listserve@IEEE.org. The FTP site is <ftp://ftp.symbios.com/pub/standards/io/1394/P1394.1>.

1394 cable power, both its distribution and management, continues to be an engaging problem. The work has been spun off into a separate Power Conservation working group under the aegis of the 1394 Trade Association.

The IP/1394 working group of the IETF is defining how Internet Protocol (IP) is to be carried by IEEE 1394. The reflector used is IP1394@Mailbag.Intel.com and may be subscribed, automatically, by requests directed to Listserv@Intel.com. The next meeting of the group is at the 42nd IETF Meeting in Chicago, IL, the week of August 24

- 28, 1998. In accordance with IETF culture, most of the development work is conducted via the reflector and not in face-to-face meetings.

The current draft, Draft-IETF-IP1394-IPv4-09, is available from various IETF FTP sites, one of which is ftp://ftp.isi.edu (see 1id-abstracts.txt in the Internet-Drafts shadow directory). The document is unofficially available as a PDF file from ftp://ftp.symbios.com/pub/standards/io/IETF/IP1394.

All of the definitions for unicast IP traffic are complete and there has been one interoperability festival with participation by three vendors. All of these early implementations interoperated with each other with minor difficulty, since resolved. The working group's work is now focused on multicast and isochronous multicast (see Draft-IETF-IP1394-MCAP-00 at the FTP sites mentioned above).

Peter reported that he has requested that 1394-1995 be submitted for international standardization. He described process by which 1394-1995 and P1394a might be combined in one international standard.

Peter Johansson moved that SBP-2 revision 4 be submitted along with a new work item proposal to ISO/IEC SC 25 WG 4 for internationalization. Gene Milligan seconded the motion. 27:2:0:12=51. Ed Gardner and Dal Allan described their negative votes as being motivated by their traditional disapproval of internationalization of T10 U.S. standards.

Peter Johansson took an action item to provide electronic document source file(s) for SBP-2 to the IR. Gene Milligan took an action item to forward SBP-2 revision 4 along with a new work item proposal to ISO/IEC SC 25 WG 4.

12.5 Copy Protection Technical Working Group (CPTWG) [Worrell]

Steve Finch reported that the next meeting of the Copy Protection Technical Working Group is May 20, 1998 in Burbank, CA. Steve recommended that this item be removed from the agenda until the isochronous activities suggest a need for liaison.

12.6 IEEE P1285 Status

Peter Johansson reported that the IEEE Microprocessor Standards Committee continues to extend the allowable time for the project to complete.

12.7 IEEE P1596.8 Status

Greg McSourley reported that the P1596.8 is going out for review.

12.8 SCSI Trade Association (STA) [Jones/Grantham]

Skip Jones reported that STA will have a meeting here today. He noted that activity is proceeding on SCSI Harbor. He described the efforts to define the migration path for parallel SCSI, i.e., life after Ultra 2, with a vote planned for July.

13. Review of Action Items

- 265) John Lohmeyer will provide the project abstract form to all project editors.
- 266) All project editors will return the project abstract forms regarding their project(s) to the Chair.
- 267) The SSC project editor will provide a public review revision of SSC to John Lohmeyer.
- 268) John Lohmeyer will notify the T10 Reflector that T10 is planning to remove all HVD material from SPI-3.
- 269) Ralph Weber will assign device type code 0Fh to ISO/IEC 14776-381 "SCSI Specification for Optical Card Reader/Writer" in SPC-2.
- 270) Peter Johansson will prepare SBP-2 revision 4 for public review and ISO/IEC activities.
- 271) John Lohmeyer will forward SBP-2 revision 4 to NCITS for processing toward first public review.

- 272) John Lohmeyer will notify NCITS that T10 has recommended the withdrawal of X3.170 and X3.170a.
- 273) John Lohmeyer will notify the T10 Reflector that T10 intends to make extent reservations obsolete for both Reserve and Persistent Reserve commands in SPC-2.
- 274) John Lohmeyer will notify the T10 Reflector that T10 intends to make the Change Definition command obsolete in SPC-2.
- 275) Peter Johansson will provide SBP-2 revision 4 electronic source files to the IR.
- 276) Gene Milligan will forward SBP-2 revision 4 along with a new work item proposal to ISO/IEC SC 25 WG 4.
- 277) John Lohmeyer will put out a call for an SSC technical editor.

14. Meeting Schedule

The next plenary meeting of T10 will be July 16, 1998 in Portland, ME at the Holiday Inn By the Bay (207-775-2311), hosted by Digital Equipment Corp. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

July '98 Meeting Map
(5/7/98 Version)

Monday 7/13	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	EPI Edit				Draft Review (SAM-2)									(25)
	+-----+													
	Fibre Channel WG													(40)
	+-----+													
Tuesday 7/14	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	SPI-3 WG													(40)
	+-----+													
	RBC WG													(20)
	+-----+													
	Fibre Channel WG				T10/T11 TapeWG									(40)
	+-----+													
Wednesday 7/15	9	10	11	12	1	2	3	4	5	6	7	8	9	
	+-----+													
	SCSI WG													(40)
	+-----+													
						SFF SSWGs				SFF				(40)
	+-----+													
Thursday 7/16	9	10	11	12	1	2	3	4	5	6	7	8		
	+-----+													
	T10 Plenary				/ SCSI Harbor (*)									(60/40)
	+-----+													
						STA Marcom								(15)
	+-----+													
(*) - SCSI Harbor meeting begins 30 minutes after T10 plenary but not before 2:00 pm														
Friday 7/17	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.

Meeting	Date	Location / Contact
SPI-3 WG	5/22 09:00-17:00	Chicago, IL / Gene Milligan
SPI-3 WG	6/19 09:00-17:00	Irvine, CA / Skip Jones
EPI Edit	6/12 09:00-14:00	St. Petersburg Beach / Chuck Brill
MMC-2 WG	6/9-10 09:00-17:00	Tustin, CA / SSI
MMC-2 WG	8/4-5 09:00-17:00	Longmont, CO / Philips

Meeting Map Abbreviation Key:

Amnd: Amendment
 CAM: Common Access Method
 CAM-3: Next generation CAM for SCSI-3
 Diskboys: Industry group studying disk attachment via IEEE 1394
 EPI: SCSI Enhanced Parallel Interface (Technical Report)
 Encl Profile Enclosure Profile Study Group
 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)
 FC: Fibre Channel
 FC-AL: Fibre Channel - Arbitrated Loop (a T11 project)
 FCLC: Fibre Channel Loop Community (not an NCITS activity)
 I/F: Interface
 Int'l SG: International Activities Study Group
 HAP: High Availability Profile (Technical Report)
 LB: Letter Ballot
 MMC: SCSI-3 Multimedia Commands (CD-ROM)
 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)
 SCC: SCSI-3 Controller Commands (RAID)
 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)
 SFF ATA: SFF ATA Cabling SSWG (not an NCITS activity)
 SG: Study Group
 SMC: SCSI-3 Medium Changer Commands
 SPC: SCSI-3 Primary Commands
 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 T: STA Technical Meeting (T10 members invited)
 STS: SCSI Transport via SBP-2
 T10: Lower Level Interfaces Technical Committee
 T10.1: SSA Task Group of T10
 VHDCI: Very High Density Cabled Interconnect
 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 & SSC	Gary Stephens	(602) 321-1725 6363897@mcimail.com
HAP	Doug Hagerman	(508) 841-2145 douglas.hagerman@digital.com
SBC	Gene Milligan	(405) 324-3070 gene_milligan@notes.seagate.com
SBP, MMC, MMC-2	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) 531-5472 pjohansson@aol.com
RBC	Michael Bryan	(303) 684-1407 mike_bryan@notes.seagate.com
SCC-2, SPI-2, SPI-3	George Penokie	(507) 253-5208 gop@us.ibm.com
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SPC, SPC-2, SAM-2, SEP	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
SSS	Keith Parker	(503) 255-1035 diogenes@europa.com
Other Activities	John Lohmeyer	(719) 533-7560 lohmeier@ix.netcom.com

The long-term T10 meeting week schedule is:

Date	Location	Host/Comments
Mar 16-20, 1998	San Diego, CA	QLogic
May 4-8, 1998	Colorado Springs, CO	Symbios
Jul 13-17, 1998	Portland, ME	Digital
Sep 14-18, 1998	St. Petersburg Beach, FL	AMP
Nov 2-6, 1998	Palm Springs, CA	Adaptec
Mar 8-12, 1999	Sarasota, FL	AMP
May 3-7, 1999	Manchester, NH	Hitachi Cable
Jul 12-16, 1999	Colorado Springs, CO	Symbios
Sep 13-17, 1999	Huntington Beach, CA	QLogic
Nov 8-12, 1999	Palm Springs, CA	Adaptec
<i>Proposed 2000 Dates:</i>		
Jan 10-14, 2000	(just in case we decide to re-instate January meetings)	
Mar 6-10, 2000		
May 8-12, 2000		

Jul 10-14, 2000

Sep 11-15, 2000

Nov 6-10, 2000

John Lohmeyer asked that volunteers to host 2000 meetings respond to him by email stating which month(s) and location(s) they are willing to host.

John Lohmeyer moved that T10 raise its maximum room night cost (including tax and parking) from \$125 to \$140. Roger Cummings seconded the motion. The motion passed unanimously.

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.

Roger Cummings moved that T10 authorize the T10-related meetings and events in the list above. Peter Johansson seconded the motion. The motion passed unanimously.

15. Adjournment

The meeting was adjourned at 12:50 p.m. on Thursday May 7, 1998.

Meeting Attendees -- Enclosure (1)

Name	S	Organization	Electronic Mail Address
Mr. Lawrence J. Lamers	P	Adaptec, Inc.	ljlamers@ix.netcom.com
Mr. Scott Lindstrom	O	AMP, Inc.	slindstr@amp.com
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Mr. Ron Roberts	A	Apple Computer	rkroberts@aol.com
Mr. Douglas Wagner	P	Berg Electronics	wagnerdl@bergelect.com
Mr. Ian Morrell	P	Circuit Assembly Corp.	ianm@ca-online.com
Mr. Gyo Shinozaki	V	Circuit Assembly Corp.	gyos@circuitassembly.com
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Mr. Peter Johansson	P	Congruent Software, Inc.	pjohansson@aol.com
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Mr. Dan Colegrove	A#	IBM Corp.	colegrov@us.ibm.com
Mr. Tim Bradshaw	P	Iomega Corp.	bradshat@iomega.com
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Mr. Dean Wallace	P	Linfinity Micro	75671.3443@compuserve.com
Mr. Alan Littlewood	P	LSI Logic Corp.	alanl@lsil.com
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Mr. Bob Masterson	P	Methode Electronics, Inc.	rwmast@methode.com
Mr. Jay Neer	A	Molex Inc.	jneer@molex.com
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Mr. William P. McFerrin	P	Philips Electronics	BMcFerrin@aol.com
Mr. Skip Jones	P	QLogic Corp.	sk_jones@qlc.com
Mr. Mark Evans	A	Quantum Corp.	mark.evans@quantum.com
Mr. Gene Milligan	P	Seagate Technology	Gene_Milligan@notes.seagate.com
Mr. Dave Guss	P	Silicon Systems, Inc.	dave.guss@tus.ssil.com
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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. John Lohmeyer	P	Symbios, Inc.	lohmeier@ix.netcom.com
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Mr. Ralph O. Weber	A	Symbios, Inc.	roweber@acm.org

Ms. Randi Mitchem	A#	SyQuest Technology, Inc.	randi.mitchen@syquest.com
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Mr. Jeffrey L. Williams	P	Western Digital Corporation	Jeffrey.L.Williams@wdc.com
Mr. Doug Piper	P	Woven Electronics	doug.piper@internetmci.com

49 People Present

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

T10 Attendance Database on 1998/05/13 at 10:34:55 -- Enclosure (2)

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T10 Document Database on 1998/05/13 at 10:34:00 -- Enclosure (3)

T10/98-001R0	Date: 1997/12/05	Author: J. Lohmeyer	Mailing: 1998_1
Agenda for T10 Meeting #26 (May '98)			
T10/98-002R0	Date: 1997/12/05	Author: J. Lohmeyer	Mailing: 1998_1
T10 Project Summary - Mar '98			
T10/98-003R0	Date: 1997/12/05	Author: J. Lohmeyer	Mailing: 1998_1
Jeopardy letter for Mar '98 meeting			
T10/98-004R0	Date: 1997/12/05	Author: J. Lohmeyer	Mailing: 1998_1
Letter Ballot on Forwarding SPI-2 to First Public Review			
T10/98-005R0	Date: 1998/01/13	Author: J. Lohmeyer	Mailing: 1998_1
Results of letter ballot 97-038 on forwarding SBP-2			
T10/98-006R0	Date: 1998/01/13	Author: J. Lohmeyer	Mailing: 1998_1
Results of letter ballot 98-004 on forwarding SPI-2			
T10/98-007R0	Date: 1998/01/26	Author: J. Lohmeyer	Mailing: 1998_1
Ltr. to Ken Bush (Compaq) re Security Patents			
T10/98-101R0	Date: 1997/12/02	Author: Dean Wallace	Mailing: 1998_1
Universal Backplane Annex			
T10/98-102R0	Date: 1997/12/07	Author: L. Lamers	Mailing: 1998_1
Minutes of Protocol Study Group - 12/97			
T10/98-103R0	Date: 1997/12/04	Author: Craig McCombs	Mailing: 1998_1
Predicting Performance Benefits of Packetized SCSI			
T10/98-104R0	Date: 1997/12/04	Author: Drew Wilson	Mailing: 1998_1
U3 SCSI Performance			
T10/98-105R0	Date: 1997/12/05	Author: George Penokie	Mailing: 1998_1
SCSI Usable Bandwidth - Fixed Select Times; Varying Data Rate			
T10/98-106R0	Date: 1998/01/01	Author: Gerry Houlder	Mailing: 1998_1
Add PLPB feature to mode page 19h			
T10/98-106R1	Date: 1998/04/24	Author: Gerry Houlder	Mailing: 1998_2
Add PLPB feature to mode page 19h			
T10/98-107R0	Date: 1997/12/12	Author: John Lohmeyer	Mailing: 1998_1
Document Retention Policy			
T10/98-107R1	Date: 1998/03/19	Author: John Lohmeyer	Mailing: 1998_1
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T10/98-108R0	Date: 1998/01/14	Author: George Penokie	Mailing: 1998_1
Comment resolution on SPI-2 letter ballot			
T10/98-108R1	Date: 1998/01/14	Author: George Penokie	Mailing: 1998_1
Comment resolution on SPI-2 letter ballot			
T10/98-108R2	Date: 1998/03/18	Author: George Penokie	Mailing: 1998_1
Comment resolution on SPI-2 letter ballot			

T10/98-109R0 Date: 1998/01/23 Author: Peter Johansson Mailing: 1998_1
Comment Resolution on SBP-2 letter ballot - Revision 3

T10/98-109R1 Date: 1998/02/28 Author: Peter Johansson Mailing: 1998_1
Comment Resolution on SBP-2 letter ballot - Revision 3

T10/98-109R2 Date: 1998/03/21 Author: Peter Johansson Mailing: 1998_1
Comment Resolution on SBP-2 letter ballot - Revision 3

T10/98-110R0 Date: 1998/01/15 Author: Ron Roberts Mailing: 1998_1
Minutes of MMC-2 Working Group - 1/98

T10/98-111R0 Date: 1998/01/19 Author: J. Lohmeyer Mailing: 1998_1
Minutes of SPI-3 Physical SG 1/22/98

T10/98-112R0 Date: 1998/02/02 Author: T. Coughlan Mailing: 1998_1
Writable Device Identifiers

T10/98-113R0 Date: 1998/01/21 Author: V. Bastiani Mailing: 1998_1
Initial test results on dual-edge clock signals

T10/98-114R0 Date: 1998/01/21 Author: W.C. Gintz Mailing: 1998_1
Hot Plugging on Ultra3 Busses

T10/98-115R0 Date: 1998/01/30 Author: Ralph Weber Mailing: 1998_1
Sundry Minor Enhancements for SPC-2

T10/98-115R1 Date: 1998/02/10 Author: Ralph Weber Mailing: 1998_1
Sundry Minor Enhancements for SPC-2

T10/98-115R3 Date: 1998/03/17 Author: Ralph Weber Mailing: 1998_1
Sundry Minor Enhancements for SPC-2

T10/98-116R0 Date: 1998/02/04 Author: Ron Roberts Mailing: 1998_1
MMC-2 Features and Parameters Clause

T10/98-117R0 Date: 1998/02/28 Author: Peter Johansson Mailing: 1998_1
Comment Resolution on SBP-2 letter ballot - More on Revision 3

T10/98-117R1 Date: 1998/02/28 Author: Peter Johansson Mailing: 1998_1
Comment Resolution on SBP-2 letter ballot - More on Revision 3

T10/98-118R0 Date: 1998/01/21 Author: Darrell Redford Mailing: 1998_1
RBC Generic Command Set Issues

T10/98-118R1 Date: 1998/03/03 Author: Darrell Redford Mailing: 1998_1
RBC Generic Command Set Issues

T10/98-119R0 Date: 1998/02/11 Author: Pete McLean Mailing: 1998_1
Minutes of RBC working group - 2/98

T10/98-120R0 Date: 1998/02/28 Author: Peter Johansson Mailing: 1998_1
Comment Resolution on SBP-2 letter ballot: Isochronous or Not?

T10/98-121R0 Date: 1998/02/20 Author: Greg Shue Mailing: 1998_1
Serial Bus Protocol 2 - Programmable Reconnect Interval Extension

T10/98-121R1 Date: 1998/03/30 Author: Greg Shue Mailing: 1998_1
Serial Bus Protocol 2 - Programmable Reconnect Interval Extension

T10/98-121R2 Date: 1998/05/08 Author: Greg Shue Mailing: 1998_2
Serial Bus Protocol 2 - Programmable Reconnect Interval Extension

T10/98-122R0 Date: 1998/03/02 Author: Ron Roberts Mailing: 1998_1
Proposal Clause 4 MMC-2

T10/98-123R0 Date: 1998/03/15 Author: Jeff Williams Mailing: 1998_1
Removal of Tag Checking Requirement in SPI-2

T10/98-123R1 Date: 1998/03/17 Author: Jeff Williams Mailing: 1998_1
Removal of Tag Checking Requirement in SPI-2

T10/98-124R0 Date: 1998/03/13 Author: Robert Snively Mailing: 1998_1
SPC-2, Persistent Reservation: Additional proposed corrections

T10/98-124R1 Date: 1998/03/13 Author: Robert Snively Mailing: 1998_2
SPC-2, Persistent Reservation: Additional proposed corrections

T10/98-125R0 Date: 1998/03/26 Author: Weber/Lohmeyer Mailing: 1998_1
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T10/98-125R1 Date: 1998/03/30 Author: Weber/Lohmeyer Mailing: 1998_1
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T10/98-126R0 Date: 1998/03/26 Author: Weber/Lohmeyer Mailing: 1998_1
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T10/98-126R1 Date: 1998/03/30 Author: Weber/Lohmeyer Mailing: 1998_1
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T10/98-127R0 Date: 1998/03/26 Author: Weber/Lohmeyer Mailing: 1998_1
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T10/98-127R1 Date: 1998/03/31 Author: Weber/Lohmeyer Mailing: 1998_1
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T10/98-128R0 Date: 1998/03/13 Author: Robert Snively Mailing: 1998_1
New Log Page Requirements

T10/98-128R1 Date: 1998/04/08 Author: Robert Snively Mailing: 1998_2
New Log Page Requirements

T10/98-128R2 Date: 1998/04/08 Author: Robert Snively Mailing: 1998_2
New Log Page Requirements

T10/98-129R0 Date: 1998/03/14 Author: W.C. Gintz Mailing: 1998_1
Hot Plugging on U3 Busses (Second Report)

T10/98-130R0 Date: 1998/03/18 Author: Keith Parker Mailing: 1998_1
SCSI Socket Services (SSS) Review 98-03-18

T10/98-131R0 Date: 1998/03/16 Author: Greg Kapraun Mailing: 1998_1
0.5pF Balance Capacitance

T10/98-132R0 Date: 1998/03/16 Author: W. Bridgewater Mailing: 1998_1
Bias Reduction Proposal - 3/98

T10/98-133R0 Date: 1998/03/16 Author: Richard Moore Mailing: 1998_1

Presentation on QAS changes

T10/98-134R0 Date: 1998/03/16 Author: Dean Wallace Mailing: 1998_1
Termination Power Requirements

T10/98-135R0 Date: 1998/03/19 Author: Bill Ham Mailing: 1998_1
Section of EPI describing SCSI switches

T10/98-136R0 Date: 1998/03/10 Author: Gene Milligan Mailing: 1998_1
ISO/IEC 8482 issues

T10/98-137R0 Date: 1998/03/19 Author: Steve Finch Mailing: 1998_1
Project Proposal for Serial Bus Isochronous Protocol Standard

T10/98-138R0 Date: 1998/03/19 Author: Pete McLean Mailing: 1998_1
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T10/98-139R0 Date: 1998/03/19 Author: Pete McLean Mailing: 1998_1
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T10/98-140R0 Date: 1998/03/19 Author: T. Coughlan Mailing: 1998_1
Clarification of Persistent Reservation

T10/98-141R0 Date: 1998/03/19 Author: Ron Roberts Mailing: 1998_1
Minutes of MMC-2 Working Group - 3/98

T10/98-142R0 Date: 1998/03/17 Author: John Scheible Mailing: 1998_1
Common Database Record Interchange Structure

T10/98-143R0 Date: 1998/03/19 Author: Tom Lagatta Mailing: 1998_1
Storage Networking Industry Association Presentation

T10/98-144R0 Date: 1998/01/14 Author: George Penokie Mailing: 1998_2
CRC on existing SCSI parallel protocol

T10/98-144R1 Date: 1998/04/14 Author: George Penokie Mailing: 1998_2
CRC on existing SCSI parallel protocol

T10/98-145R0 Date: 1998/04/19 Author: R. Weber Mailing: 1998_2
Which port changes for SPC-2

T10/98-146R0 Date: 1998/05/12 Author: Lohmeyer/Weber Mailing: 1998_2
Minutes of SPI-3 Working Group - 5/98

T10/98-147R0 Date: 1998/05/12 Author: Weber/Lohmeyer Mailing: 1998_2
Minutes of SCSI Working Group - 5/98

T10/98-148R0 Date: 1998/05/12 Author: Weber/Lohmeyer Mailing: 1998_2
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T10/98-149R0 Date: 1998/04/22 Author: N. Wanamaker Mailing: 1998_2
Tape Error Recovery in Queued Environments

T10/98-150R0 Date: 1998/05/02 Author: Ed Gardner Mailing: 1998_2
Simplified Parallel SCSI CRC Proposal

T10/98-151R0 Date: 1998/05/01 Author: Hideki Hosoya Mailing: 1998_2
Optical Memory Card Read/Write Command Set for T10 review

T10/98-152R0 Date: 1998/04/29 Author: Gene Milligan Mailing: 1998_2
Presentation on Fast-80

T10/98-153R0 Date: 1998/05/02 Author: Gene Milligan Mailing: 1998_2
Fast-80 details

T10/98-154R0 Date: 1998/05/04 Author: Bruce Leshay Mailing: 1998_2
CRC Proposal

T10/98-155R0 Date: 1998/05/04 Author: Richard Uber Mailing: 1998_2
Hot Swap Technical Issues

T10/98-156R0 Date: 1998/05/04 Author: Wally Bridgewater Mailing: 1998_2
Full Length Cable & 15 Loads, 3 Point Plan

T10/98-157R0 Date: 1998/05/04 Author: James McGrath Mailing: 1998_2
Testing for Old Expanders

T10/98-158R0 Date: 1998/05/04 Author: James McGrath Mailing: 1998_2
Communicating with New Expanders

T10/98-159R0 Date: 1998/05/04 Author: Larry Lamers Mailing: 1998_2
Presentation on QAS

T10/98-160R0 Date: 1998/05/02 Author: Dan Smith Mailing: 1998_2
Leading Pulse Tests Using Ultra2 REQ Signal

T10/98-161R0 Date: 1998/05/04 Author: Dan Smith Mailing: 1998_2
Cable Skew Tests Using Ultra2 Data Signals

T10/98-162R0 Date: 1998/05/04 Author: Dan Smith Mailing: 1998_2
Setup and Hold Tests Using Ultra2 Data/REQ Signals

T10/98-163R0 Date: 1998/05/05 Author: Gerry Houlder Mailing: 1998_2
SCSI Extensions for Network Attached Storage

T10/98-164R0 Date: 1998/05/05 Author: Robert Snively Mailing: 1998_2
Command behavior under reservations

T10/98-165R0 Date: 1998/05/05 Author: Neil Wanamaker Mailing: 1998_2
FCP-2 Enhancements for Tape

T10/98-165R1 Date: 1998/05/05 Author: Neil Wanamaker Mailing: 1998_2
FCP-2 Enhancements for Tape

T10/98-166R0 Date: 1998/05/05 Author: Dave Guss Mailing: 1998_2
REQ-ACK Counting

T10/98-167R0 Date: 1998/05/05 Author: Pete Mclean Mailing: 1998_2
Minutes of RBC Working Group - 5/5/98

T10/98-168R0 Date: 1998/05/06 Author: Pete Mclean Mailing: 1998_2
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T10/98-169R0 Date: 1998/05/06 Author: Rob Sims Mailing: 1998_2
GET CONFIGURATION Overview

T10/98-170R0 Date: 1997/12/04 Author: Rob Sims Mailing: 1998_2
Proposal for additions to SPC

T10/98-171R0 Date: 1998/05/06 Author: Peter Johansson Mailing: 1998_2
SBP-2 Document History

T10/98-172R0 Date: 1998/05/07 Author: Stewart Wyatt Mailing: 1998_2
Minutes of Joint T10/T11.3 Meeting on Fibre Channel Tape - 5/5/98

T10/98-173R0 Date: 1998/05/11 Author: Ralph Weber Mailing: 1998_2
SAM-2 Rev 6 Notes

T10/98-174R0 Date: 1998/05/08 Author: Hank Herrmann Mailing: 1998_2
Dual Conductivity Contact