To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: T10 Plenary Meeting #28 -- September 17, 1998
St. Petersburg Beach, FL

Agenda

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

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday September 17, 1998. He thanked Chuck Brill of AMP for hosting the meeting. John and the committee congratulated Chuck on his many years of service to the standards community and wished him well on the occasion of his upcoming retirement.

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:

10.4.1 CRC Proposal (98-177r6) [McGrath]
10.4.2 QAS Proposal (97-199r9) [Moore]
10.4.3 Single-Ended Termination Change (98-220r0) [Grantham]
10.4.4 Proposal for Writable Device Identifiers (98-112r3) [Coughlan]
10.4.5 Making VPD page 81h (Operating Definition) obsolete? [Weber]
10.4.6 New device type code for bridging expanders (98-223r1) [Ham]
10.4.7 Parallel Protocol Request Negotiation (98-180r3) [Penokie]
10.4.8 Making HVD obsolete in SPI-3 [Milligan]
10.5 Electronic Service Fee [Lohmeyer]
10.4.6 New device type code for bridging expanders (98-223r1) [Ham]
10.4.7 Parallel Protocol Request Negotiation (98-180r3) [Penokie]
10.5 Electronic Service Fee [Lohmeyer]

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

10.4.8 Making HVD obsolete in SPI-3 [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.

John Lohmeyer announced that the experimental Organizational Membership is being discontinued next year. NCITS spent more effort collecting the Organizational Membership fees than they collected in fees. From NCITS perspective, the Organizational Membership experiment was a failure.


The Chair said he had sent letters to 9 people from 5 organizations informing them that their membership was in jeopardy due to non-attendance (see 98-013r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

AMP, Inc.
Cable Design Technologies
Ciprico Inc.
Eastman Kodak Co.
Toshiba America Electronics Corp.

All of the organizations were present except:

Ciprico Inc.
Eastman Kodak Co.

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).

John Lohmeyer reported that since the last meeting LSI Logic acquired Symbios, Inc. So the Symbios membership was combined with the LSI Logic membership.

The following organization requested new membership at this meeting:

Lasercard Systems Corp. with Hayden Smith as the principal member.

The T10 membership during the meeting was 47 organizations down from 49 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 - July '98 Meeting Portland, ME (T10/98-202r1)

John Lohmeyer reported that Portland, ME minutes were revised since the last mailing based on comments received from Gene Milligan. The revised minutes will appear in the next mailing. The minutes were approved as written at revision 1.

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 Lohmeyer requested that all documents for the next mailing be in his hands in electronic format by 10:30 a.m. on Thursday September 24, 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 lohmeyer@ix.netcom.com), placed on the SCSI BBS (719-533-7950), or they can be transferred by ftp protocol to ftp.symbios.com and placed in the /pub/standards/io/incoming directory. In the latter two cases, please also send 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/.


6. Call for Patents

This is a regular agenda item to identify any potential patent issues with developing standards. A call was made and no one identified any patents issues.

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.

7. Review of Old Action Items

266) All project editors will return the project abstract forms regarding their project(s) to the Chair. Carryover
276) Gene Milligan will forward SBP-2 revision 4 along with a new work item proposal to ISO/IEC SC 25 WG 4. Complete
278) Ralph Weber will make extent reservations obsolete in the next SPC-2 revision. Complete
279) Ralph Weber will make the CHANGE DEFINITION command obsolete in the next SPC-2 revision.  
   Complete
280) George Penokie will prepare SPI-2 revision 20b at the convenience of the T10 chair.  Complete
281) John Lohmeyer will substitute SPI-2 revision 20b for SPI-2 revision 20a prior to NCITS letter ballot if no 
   public review comments are received.  Complete
282) John Lohmeyer will conduct a letter ballot on forwarding EPI revision 15 to first public review.  Complete
283) John Lohmeyer will conduct a letter ballot on forwarding RBC revision 5 to first public review.  Complete

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.

John noted that NCITS would meet the following week in Beaver Creek, CO. He planned to attend part of the 
meeting to present the T10 annual report.

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

John Lohmeyer reported the SPI Amendment is awaiting publication.

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

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

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

In the absence of Dale Peterson, Erich Oetting reported that the joint T10/T11.3 Tape meeting (minutes in T11/98-
473v0) is making progress. It had been agreed to recommend acceptance of the “tape alert” proposal for inclusion 
in SSC. The plan is to do a forwarding of SSC toward first public review after the November meeting.

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

Erich Oetting reported that he has not yet been contacted by ANSI regarding SMC publication.

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

Ron Roberts reported that he has received the published MMC standard (ANSI X3.304:1997). This item will be 
removed from future agendas.

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

John Lohmeyer reported that SPI-2 is on the NCITS agenda for approval next week.

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

Bill Ham reported that the EPI letter ballot review was held Monday. Bill has prepared EPI revision 16 addressing 
the letter ballot comments. The issues around a device type for bridging expanders were discussed. See also 
items 10.1 and 10.4.6, below.
8.9 SCSI Fibre Channel Protocol - 2 (FCP-2) {Project 1144-D} [Snively]

Bob Snively reported that he plans to have a first draft of FCP-2 at the end of the month, but not in time to make the next mailing.

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

Pete McLean reported that the SBP-2 public review closed with no comments. The SBP-2 that passed public review is on the NCITS agenda for approval next week.

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

Ralph Weber reported that a SAM-2 review on Monday uncovered problems with the first draft multi-port device model. The problems included:

1) A missing requirement that all ports in a multi-port device map to shared device servers (and/or logical units)
2) Use of “Multi-Port SCSI Device” as an object name causes confusion with the object named “SCSI Device”
3) Several potential problems with connection mapping across the SCSI bus.

Ralph stated that a new SAM-2 draft will be ready for the next meeting, but possibly not in time for the mailing. SAM-2 revision 9, prepared shortly before this meeting, will be in the next mailing.

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

Bob Snively reported that publication has been pending since May and he has not been contacted by ANSI.

John Lohmeyer took an action item to investigate the status of T10 projects that have been at ANSI pending publication for several months.

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

John Lohmeyer reported that Doug Hagerman has resigned as project editor for HAP. John asked anyone interested in editing HAP to contact him. John noted that, if no volunteers appear by the November meeting, he would propose withdrawing the HAP project.

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

John Lohmeyer reported that SCC-2 should be in the publication department at ANSI. It was approved by BSR June 9, 1998.

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

Ron Roberts reported that he is preparing MMC-2 revision 8 for the next mailing. He requested a letter ballot for forwarding MMC-2 to first public review. John Lohmeyer took an action item to conduct a letter ballot on MMC-2 revision 8 for forwarding to first public review.

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

Ralph Weber reported that a revision of SPC-2 will be prepared in time for the mailing and will contain all the change proposals approved during this meeting.

Ralph asked the committee to consider the possibility that SPC-2 should be forwarded towards first public review at the November or March meetings. Once the persistent reservations proposal is incorporated, Ralph felt that SPC-2 should become a dpANS to give wide distribution to the persistent reservations changes and to support RBC, which is progressing to public review.
8.17 Reduced Block Commands (RBC) {Project 1240-D} [Bryan]

Pete McLean reported on the letter ballot review meeting for RBC (minutes in 98-221). He noted that an incomplete comments resolution document will be provided for the next mailing (98-222r0). Pete stated that completion of the resolution of letter ballot comments will be accomplished at a working group meeting in November. Pete requested working group meeting time on Monday afternoon and all day Tuesday during the November meeting week.

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

John Lohmeyer reported that SSS revision 0 was placed on the web site before this meeting. He noted that Keith Parker had requested a document number for a status report, but John had not received the report yet.

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

George Penokie reported that SPI-3 is still at revision 0, but revision 1 will be prepared in time for the next meeting, but not in time for the mailing. Revision 1 will contain all the proposals approved during this meeting.

George also reported that the universal backplane annex (89-101) developed by Dean Wallace will be incorporated in SPI-3. George noted that since the annex will be informative, no formal action is required.

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

Ralph Weber reported no progress on this project.

9. Old Business

9.1 Background Scan in Informational mode page (98-205) for SPC-2 [Williams]

Jeff Williams presented 98-205r3. Based on the unanimous recommendation of the working group, Jeff Williams moved that 98-205r3 be accepted for inclusion in SPC-2. Erich Oetting seconded the motion. The motion passed 27:0:0:20=47.

9.2 SPI-3 Timing Proposals (98-153r6) [Milligan]

Gene Milligan presented the proposal that defines the basic properties of Fast-80 (98-153r6). Based on the 11:3 vote of the working group, Gene moved that 98-153r6 be accepted for inclusion in SPI-3. Mark Evans seconded the motion. The motion passed 29:1:0:17=47. Rob Elliott stated that his no vote was based on the belief that there is not enough timing budget for the bus interconnect.

10. New Business

10.1 Results of Letter Ballot on Forwarding EPI to First Public Review

John Lohmeyer reported the results of the EPI letter ballot (98-016r0). The ballot had passed 47:1:0:0=48. John stated that all letter ballot comments have been resolved (98-227r0).

George Penokie requested that his no vote on the letter ballot be changed to a yes vote.
Bill Ham moved that 98-227r0 be accepted as containing the EPI letter ballot comments resolutions and EPI revision 16 be accepted as incorporating the comments resolutions. The two-thirds vote motion passed 32:0:0:15=47. John Lohmeyer took an action item to forward EPI revision 16 to NCITS for processing toward first public review.

10.2 Results of Letter Ballot on Forwarding RBC to First Public Review

John Lohmeyer reported on the results of the RBC letter ballot (98-107r0). The ballot had passed 41:5:0:2=48. Pete McLean noted that the RBC working group did not complete resolving the letter ballot comments. A vote on accepting letter ballot comments resolution is anticipated at the November meeting.

10.3 World Wide IDs (98-186) [Penokie]

George Penokie reported that the July working group recommended SPC-2 be revised to state that the “canonical” IEEE company identifiers shall be used (98-186). George Penokie moved that 98-186 be accepted for inclusion in SPC-2. Roger Cummings seconded the motion. The motion passed 28:0:1:18=47.

10.4 Actions on Working Group Recommendations

10.4.1 CRC Proposal (98-177r6) [McGrath]

Skip Jones moved that 98-177r6 be accepted for inclusion in SPI-3. Ed Gardner seconded the motion. The motion passed 30:1:0:16=47. Dal Allan stated that his no vote was based on the belief that CRC support should be backward compatible as well as forward compatible.

10.4.2 QAS Proposal (97-199r9) [Moore]

Larry Lamers moved that 98-199r9 be accepted for inclusion in SPI-3. Dal Allan seconded the motion.

Jeff Williams stated that the wording on fairness is not sufficient to meet the requirements he sees and that he would vote no based on those concerns.

The motion passed 24:7:1:15=47.

10.4.3 Single-Ended Termination Change (98-220r0) [Grantham]

Louis Grantham reviewed a proposal to change termination current requirements to relax values towards greater compatibility with the values found in SCSI-2 (98-220r0). Louis reported that the working group recommended accepting 98-220r0 for inclusion in SPI-3 on a vote of 10:3:3. Paul Aloisi presented the case for leaving the SPI-2 termination current requirements unchanged in SPI-3 (98-226r0). The committee discussed both points of view.

Gene Milligan moved that consideration of 98-220 be deferred to the November meeting and that the November working group be given an action item to prepare a reconsidered recommendation based upon any additional technical input for the November meeting. Bob Snively seconded the motion. Gene noted that he felt insufficient time had been provided for consideration of the proposal by his technical experts. The motion to defer consideration passed unanimously.

10.4.4 Proposal for Writable Device Identifiers (98-112r3) [Coughlan]

George Penokie presented a proposal that two SCC-2 commands, REPORT DEVICE IDENTIFIER and SET DEVICE IDENTIFIER, be duplicated in SPC-2, to allow writing of convenient device identifiers in all devices. Tom Coughlan moved 98-112r3 be accepted for inclusion in SPC-2. Mark Evans seconded the motion.
Mark Evans, Bob Snively, Ed Gardner, Tom Coughlan, and others discussed concerns about the size of the identifier. Mark Evans moved to amend the proposal to set a maximum identifier size of 256 bytes (generally, 98-112r3 was read to require a minimum of 64 bytes). Ed Gardner seconded the motion. The motion to amend failed 5:9:14:19=47.

Gene Milligan stated that he would vote against the original motion based on the lack of a maximum identifier size and the problems with supporting the proposal in CD-ROM devices.

The original motion failed 10:10:8:19=47.

To address the committee’s concerns, Tom Coughlan prepared 98-112r4, which added a maximum identifier length of 512 bytes.

Dal Allan moved to reconsider the motion on 98-112r3. Mark Evans seconded the motion to reconsider. Dal and Mark confirmed that they were on the prevailing side for the previous vote. The motion to reconsider passed 31:0:0:16=47. John Lohmeyer proposed a friendly amendment to the original motion to bump the revision number from 3 to 4. Tom and Mark agreed to a friendly amendment. The amended, reconsidered motion passed 28:0:1:18=47.

10.4.5 Making VPD page 81h (Operating Definition) obsolete? [Weber]

Ralph Weber noted that the July decision to make the CHANGE DEFINITION command obsolete did not specifically cover the Operating Definition VPD page (81h). He described the contents of the page and its total dependency on the CHANGE DEFINITION commands.

Ralph moved that VPD page 81h be made obsolete in SPC-2. Bob Snively seconded the motion. The motion passed 22:0:3:22=47.

10.4.6 New device type code for bridging expanders (98-223r1) [Ham]

Ralph Weber described the need for a device type code for EPI bridging expanders, and the requirement, set by the working group, that the device type code be reserved as opposed to assigned. Ralph moved that 98-223r1 be accepted for inclusion in SPC-2. Bill Ham seconded the motion. The motion passed 22:0:1:24=47.

10.4.7 Parallel Protocol Request Negotiation (98-180r3) [Penokie]

Larry Lamers moved that PPR (98-180r3, as revised by the working group) be incorporated in SPI-3. Mark Evans seconded the motion. George Penokie noted that the working group had not recommended inclusion of 98-180r3 as revised in SPI-3. Speaking in favor of the motion, Larry noted he would have difficulty getting engineering review of SPI-3 in the absence of this key capability. The motion passed 22:0:1:24=47.

10.4.8 Making HVD obsolete in SPI-3 [Milligan]

Gene Milligan moved that HVD be made obsolete in SPI-3. Paul Aloisi seconded the motion. The committee discussed the details of how making HVD obsolete would be presented in SPI-3. The motion passed 24:0:1:22=47.

10.5 Electronic Service Fee [Lohmeyer]

John Lohmeyer reported that several of the T committees are having difficulties with finding homes for their web sites. At LSI Logic, an external web server company is contracted to handle all external web site activities, which was not the case for Symbios. It is not clear whether LSI Logic will be able to continue the ftp and web servers for T10. Also, the symbios.com domain name will be shutdown at the end of the year, so the URLs for T10 will have to change. John reported on an offer to move the T10 web site to a web server already supporting FC-LC (Fibre Channel Loop Community).
Dal Allan provided details of the service. Dal described the usage of a proposed, new electronic services fee. Some of the fees would be used to purchase new hardware and establish an independent operating facility for the T10 web site, while the remainder would pay the monthly charges for half access to a T1 link. Dal described how he plans to work with NCITS to keep open access to standards.

In response to a question from George Penokie, John reported that $50 of the subscription fee goes to the editor's fund. Dal reported that the electronic service fee has been estimated at $100 per membership.

Roger Cummings described the on-going situation regarding limiting access to draft standards, and noted several concerns that might be reflected in relationships with NCITS.

Roger Cummings moved that T10 approve the principle of levying an electronic service fee not to exceed $100 with the understanding that the T10, T11, and T13 chairs will prepare a detailed proposal ASAP. Erich Oetting seconded the motion.

Dal Allan moved that the words “principle of” be removed the motion. Larry Lamers seconded the motion to amend. The motion to amend passed 28:5:0:14=47.

The amended motion became “that T10 approve the levying of an electronic service fee not to exceed $100 with the understanding that the T10, T11, and T13 chairs will prepare a detailed proposal ASAP.”

Ed Gardner moved that the references to T11 and T13 be removed from motion. Roger and Erich accepted Ed's proposal as a friendly amendment.

The amended motion became “that T10 approve the levying of an electronic service fee not to exceed $100 with the understanding that the T10 chair will prepare a detailed proposal ASAP.” Gene Milligan noted that there is an intention to coordinate the electronic services program with the other T committees that cannot be reflected as a formal part of the motion. The amended motion passed 29:4:1:13=47.

John Lohmeyer took an action item to prepare a detailed proposal for the levying and usage of the electronic service fee ASAP.

Chair’s note: This item may be overcome by events. I have received an email saying LSI Logic is willing to continue hosting T10 (although the URL will have to change). Also, I believe STA is willing to host the T10 site should it become necessary. In any case, it appears that we have more time to make a decision and more options than we thought.

11. ISO

11.1 ISO Report [Milligan]

Gene Milligan presented an oral report to the committee and provided the following electronic report for the minutes:

ISO Report 9/17/98

ISO/IEC JTC 1 N 5508
DATE: 1998-09-02
DOC TYPE: Summary of Voting/Table of Replies
PROJECT: NP 18006
STATUS: This proposal has met the criteria for acceptance into the JTC 1 Programme of Work. SC 25 is
instructed to begin development of this item taking into account the National Body comments received.

Voting Summary of JTC 1 N 5386 'P' Members
Q.1 Do you accept the proposal in document JTC 1 N XXXX as a sufficient definition of the new work item?
24:0:2
Q.2 Do you support the addition of the new work item to the programme of work of the joint technical committee?
24:0:2
Q.3 Do you commit yourself to participate in the development of this new work item?9:16:1
Q.4 Are you able to offer a project editor who will dedicate his/her efforts to the advancement and maintenance
of this project? 5:20:1
Q.5 Do you have a major contribution or a reference document ready for submittal?1:24:1
Q.6 Will you have such a contribution in ninety days?1:24:1

Canada
Q4 YES (Carman Mondello)
COMMENTS: “Canada encourages SC25 to consider whether similar specifications might be more efficiently
processed in the future as Fast Track submissions”.

USA
Q4: YES (Gene Milligan as Editor Coordinator)
Q5: YES (Already submitted)
Q6: YES (Already submitted)

ISO/IEC JTC 1 N 5509
DATE: 1998-09-02
TITLE: Summary of Voting on Document JTC 1 N 5387, Proposal for a New Work
Item on ISO/IEC 14776-351: INFORMATION TECHNOLOGY - Small Computer System Interface - Part 351:
Medium Changer Commands (SCSI-3 SMC)
PROJECT: NP 18007
STATUS: This proposal has met the criteria for acceptance into the JTC 1 Programme of Work. SC 25 is
instructed to begin development of this item taking into account the National Body comments received.

ISO/IEC JTC 1 N 5510
DATE: 1998-09-02
TITLE: Summary of Voting on Document JTC 1 N 5388, Proposal for a New Work
Item on ISO/IEC 14776-371: INFORMATION TECHNOLOGY - Small Computer System Interface - Part 371:
Enclosure Services (SCSI SES)
PROJECT: NP 18008
STATUS: This proposal has met the criteria for acceptance into the JTC 1 Programme of Work. SC 25 is
instructed to begin development of this item taking into account the National Body comments received.

ISO/IEC JTC 1 N 5507
DATE: 1998-09-02
TITLE: Summary of Voting on Document JTC 1 N 5385, Proposal for a New Work
Item on ISO/IEC 14776-112: INFORMATION TECHNOLOGY - Small Computer System Interface - Part 112:
Parallel Interface - 2 (SCSI SPI-2)
PROJECT: NP 18005
STATUS: This proposal has met the criteria for acceptance into the JTC 1 Programme of Work. SC 25 is
instructed to begin development of this item taking into account the National Body comments received.

Five additional FDDI standards ISO/IEC 9314--6, -7, -8, -13; and -25 were published.

IEC TC 100 has circulated a draft standard on safety requirements for multimedia and similar equipment.

11.2 ISO Business [Milligan]

11.2.1 Recommendation on JTC 1 TAG Letter ballot, ISO/IEC DIS 14776-341, Information technology - Small Computer Interface-3 (SCSI-3) - Part 341: Controller Commands (SCSI-3 SCC)

Gene Milligan moved that T10 recommend to the JTC 1 TAG that they respond in the affirmative to the ballot on ISO/IEC DIS 14776-341, Information technology - Small Computer Interface-3 (SCSI-3) - Part 341: Controller Commands (SCSI-3 SCC). Erich Oetting seconded the motion. The roll call vote passed 33:0:0:14=47. Details of the roll call vote were as follows:

<table>
<thead>
<tr>
<th>Organization</th>
<th>Name</th>
<th>Yes</th>
<th>No</th>
<th>Abs</th>
<th>NP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptec, Inc.</td>
<td>Mr. Lawrence J. Lamers</td>
<td>1</td>
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<tr>
<td>AMP, Inc.</td>
<td>Mr. Charles Brill</td>
<td>1</td>
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<tr>
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<tr>
<td>Fujitsu (FCPA)</td>
<td>Mr. Ben-Koon Lin</td>
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<tr>
<td>Harting, Inc. of N. America</td>
<td>Mr. Marcos Barrionuevo</td>
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<tr>
<td>Hitachi Storage Products</td>
<td>Mr. Anthony Yang</td>
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<tr>
<td>Honda Connectors</td>
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<td>IBM Corp.</td>
<td>Mr. George Fenokie</td>
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<tr>
<td>Iomega Corp.</td>
<td>Mr. Tim Bradshaw</td>
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<td>Mr. Hayden Smith</td>
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<td>Linfinity Micro</td>
<td>Mr. Louis Grantham</td>
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<td>LSI Logic Corp.</td>
<td>Mr. John Lohmeyer</td>
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<td>Madison Cable Corp.</td>
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<td>Mr. Gene Milligan</td>
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<td>Silicon Systems, Inc.</td>
<td>Mr. Dave Guss</td>
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<td>Storage Technology Corp.</td>
<td>Mr. Erich Oetting</td>
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<tr>
<td>Sun Microsystems Computer Co</td>
<td>Mr. Robert N. Snively</td>
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</table>
Gene Milligan took an action item to report the affirmative recommendation of T10 on the letter ballot for ISO/IEC DIS 14776-341, Information technology - Small Computer Interface-3 (SCSI-3) - Part 341: Controller Commands (SCSI-3 SCC) to the JTC 1 TAG.

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:

T11 LIAISON REPORT to T10, T12 & T13

68 people attended the August T11 Plenary. Ancot, Ciprico & Pulse Engineering lost membership, and Digital Equipment Corporation and Tektronix resigned membership. Corning returned as a member organization. The membership of T11 is now 77 organizations. The total attendance for the T11 week was 92 people.

Project Proposals for the ST-API (Scheduled Transfer API) & HIPPI-LE Revised (Link Encapsulation Revision) projects were approved by votes at the July NCITS meeting, and assigned 1333-D & 825-R respectively.

NCITS Letter Ballot on drafts for the Revised HIPPI-FP (702-R) and FC-SW (959-D) projects closed on 6/9/98 and passed.

The Calls for Volunteers for T11.3 and T11.4 Chair closed on 8/7/98 with one volunteer having applied for each position. The Call for Volunteers for the T11 Chair position closes on 9/18/98. (The document is T11/98-355v0.htm, on www.t11.org.)

A dpANS (Revision 2.3) for the HIPPI-6400-PH project (1213-D) was forwarded for a Management Review and final processing by a rollcall vote of 48 for, 0 opposed, and 29 not voting. A dpANS (Revision 2.5) for the HIPPI-6400-SC project (1331-D) was forwarded with a recommendation for a second Public Review by a rollcall vote of 48 for, 0 opposed, and 29 not voting.

A dpANS (Revision 3.0) for the FC-10KCR project (1300-D) and a Draft Amendment (X3.230/DAM2:199x) were forwarded for further processing, including a Compliance Review and a first Public Review, by rollcall votes of 48 for, 0 opposed and 29 not voting, and 41 for, 0 opposed and 36 not voting respectively.

A Project Proposal for a Fibre Channel - High Speed Parallel Interface (FC-HSPI) Technical Report was forwarded for further processing by 45 for, 0 opposed and 32 not voting.

Dates for T11 meetings in the year 2000 were approved as follows:

2/7-11
4/3-7
6/5-9
8/7-11
10/2-6
12/4-8

T11 Letter Ballots on FC-AL-2 Rev 6.4 and FC-GS-2 Rev 5.2 are presently underway, and close on 9/29.

The next T11 meetings will be held during the week of October 5-9 at the Fort Lauderdale Marriott North, 6650 North Andrews Ave., FL 33309, hosted by Adaptec. The room rate is $125 plus tax, the phone number is 954-771-0440, the fax number is 954-771-7519, and the cutoff for reservations is 9/16. See http://www.t11.org for meeting map. The exact time and date for the Plenary meetings are:

a) T11.1 10/7 6-9pm
b) T11.2 10/7 1-6pm
c) T11.3 10/8 10am-1pm
d) T11.4 10/6 5-9pm
e) T11 10/8 2-7pm

12.2 T13 Liaison Report [Milligan]

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

Editorial corrections were approved to ATA/ATAPI-4 for BSR and ANSI publication.

Several proposals were accepted into ATA/ATAPI-5:
- Power up on standby
- nIEN clarification
- State diagrams (delete flow)
- New ID word (dev # etc.)
- Sleep to standby
- Connectors & cable

The committee debated a requirement to exit sleep with a device reset command, discussed a 32 bit ATA/ATAPI, and discussed an address offset feature that allows booting from the protected diagnostic area. There are three proposals on the latter feature and a meeting on 22 and 23 September will attempt to resolve them.

12.3 SFF Industry Group [Allan]

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

At the HSS (High Speed Serial) Testing SSWG (Specific Subject Working Group) another test was added to the set of four Level 1 tests. Significant progress continues to be made in refining the basic procedures. The content has been re-defined to be a separate specification rather than included as part of the serial connector specifications.

Final details on the SCA-2 and VHDCI connectors were received, and the next revisions should be for a publication ballot.

The new dimensions on HSSDC, which caused such a stir at the last meeting, have been agreed to by all parties. An analysis by Molex of the worst case tolerances identified a missing dimension between the retention relative to the mating pins, and there is the possibility of negative wipe (pins not making contact).

The new material on MT-RJ has been incorporated into a new revision, and the discovery made that optical connectors require a new way of describing form, fit and function.
Bill Ham expressed his appreciation to AMP for the significant amount of material and technical assistance received since the last meeting.

The technical content on HSS DB9 is now complete and a revised specification will be prepared.

The shroud chamfer dimensions on the 4-pin power connector were modified to become reference dimensions, and a note was added to say that the sum of the tolerance buildups could not exceed a defined minimum.

A response on 8070i for ATAPI Removable Rewritable Media was received which indicates an intent to remove the optical content and retain the magnetic removable information.

12.4 IEEE 1394 [Johansson]

Gene Milligan reported that a ballot resolution group is being formed for 1394a.

12.5 IEEE P1285 Status

No report.

12.6 IEEE P1596.8 Status

Bob Snively reported that no new information is available. Gene Milligan noted that the SCIZL news letter includes information on this project.

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

Paul Aloisi presented the following report:

STA has developed a press release on Ultra3, including questions and answers. A press tour is being planned for Ultra3.

The STA technical committee reviewed revision 2 of the SCSI Harbor document in July in Portland, ME. Revision 3 will be reviewed later today.

13. Review of Action Items

266) All project editors will return the project abstract forms regarding their project(s) to the Chair.

284) John Lohmeyer will investigate the status of T10 projects that have been pending publication at ANSI for several months.

285) John Lohmeyer will conduct a letter ballot on MMC-2 revision 8 for forwarding to first public review.

286) John Lohmeyer will forward EPI revision 16 to NCITS for processing toward first public review.

287) John Lohmeyer will prepare a detailed proposal for the levying and usage of the electronic service fee ASAP.

288) Gene Milligan will report the affirmative recommendation of T10 on the letter ballot for ISO/IEC DIS 14776-341, Information technology - Small Computer Interface-3 (SCSI-3) - Part 341: Controller Commands (SCSI-3 SCC) to the JTC 1 TAG.

289) The November SPI-3 Working Group will prepare an recommendation on the disposition of 98-220, changes in termination current requirements for consideration by the November plenary.
14. Meeting Schedule

The next plenary meeting of T10 will be November 5, 1998 in Palm Springs, CA at the Hyatt Regency Suites of Palm Springs (619-322-9000), hosted by Adaptec, Inc. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

<table>
<thead>
<tr>
<th>November '98 Meeting Map</th>
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<td>(9/18/98 Version)</td>
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<th>9 10 11 12 1 2 3 4 5 6 7 8 9</th>
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<td>+-----------------------------+</td>
<td>DMTF Mass Storage WG/Domain Validation (25)</td>
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<td>Fibre Channel FC-AL3 (40)</td>
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<td>RBC Comments Res (20)</td>
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<th>Tuesday 11/3</th>
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<td>SPI-3 WG / SCSI WG (*) (50)</td>
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<td>MMC-2 WG (15)</td>
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<td>RBC Comments Resolution (20)</td>
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<td>T10/T11.3 Tape WG (40)</td>
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(*) - SCSI WG meeting begins after SPI-3 but not before 1:00 pm

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<th>Wednesday 11/4</th>
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<td>SCSI WG (50)</td>
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<td>MMC-2 WG (15)</td>
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<td>+-------------------------------+</td>
<td>SFF SSWGs</td>
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<th>Thursday 11/5</th>
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<td>T10 Plenary / SCSI Harbor (*) (60/40)</td>
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<td>STA Marcom (15)</td>
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(*) - SCSI Harbor meeting begins 30 minutes after T10 plenary but not before 2:30 pm

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<th>Friday 11/6</th>
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<td>SCSI Trade Association (STA) (30)</td>
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Meetings marked with == are T10-authorized meetings.
Meetings marked with -- are authorized by other groups and may change without notice.
<table>
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<th>Meeting</th>
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<tr>
<td>T10/T11.3</td>
<td>10/6/98</td>
<td>Ft. Lauderdale, FL / T11</td>
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<tr>
<td>Joint Tape WG</td>
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Meeting Map Abbreviation Key:

- **Amnd:** Amendment
- **CAM:** Common Access Method
- **CAM-3:** Next generation CAM for SCSI-3
- **EPI:** SCSI Enhanced Parallel Interface (Technical Report)
- **Enc1 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)
- **Fast-80:** Data Transfer at 80 Mega-transfers/second (a.k.a., Ultra3)
- **FC:** Fibre Channel
- **FC-AL:** Fibre Channel - Arbitrated Loop (a T11 project)
- **FCLC:** Fibre Channel Loop Community (not an NCITS activity)
- **I/F:** Interface
- **HAP:** High Availability Profile (Technical Report)
- **LB:** Letter Ballot
- **MMC-2:** Multimedia Commands - 2 (CD-ROM, DVD, etc.)
- **PH:** Physical (Connectors, Cables, Transceivers, etc.)
- **Plenary:** Full Committee Meeting
- **RAID:** Redundant Array of Independent Devices
- **RBC:** Reduced Block Commands
- **SBC:** SCSI-3 Block Commands
- **SBP-2:** Serial Bus Protocol for IEEE 1394 (2nd generation protocol)
- **SCC-2:** SCSI Controller Commands - 2 (2nd generation RAID command set)
- **SCSI:** Small Computer System Interface
- **SES:** SCSI Enclosure Services
- **SCSI Harbor:** A STA project on defining a wrapper for SCSI devices
- **SFF:** SFF Industry Group (not an NCITS activity)
- **SG:** Study Group
- **SMC:** SCSI-3 Medium Changer Commands
- **SPC-2:** SCSI Primary Commands - 2 (2nd generation)
- **SPI-2:** Second Generation SCSI Parallel Interface
- **SPI-3:** Third Generation SCSI Parallel Interface
- **SSA:** Serial Storage Interface
- **SSC:** SCSI-3 Stream Commands (includes Tape)
- **SSWGs:** Specific-Subject Working Groups
- **STA:** SCSI Trade Association (not an NCITS activity)
- **STA Tech:** STA Technical Meeting (T10 members invited)
- **T10:** Lower Level Interfaces Technical Committee
- **WG:** Working Group (same as Ad Hoc Group)

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Contact</th>
<th>Telephone/Email</th>
</tr>
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<tbody>
<tr>
<td>CAM-3</td>
<td>Bill Dallas</td>
<td>(603) 881-2508 <a href="mailto:dallas@zk3.dec.com">dallas@zk3.dec.com</a></td>
</tr>
<tr>
<td>EPI</td>
<td>Bill Ham</td>
<td>(508) 841-2629 <a href="mailto:bill.ham@digital.com">bill.ham@digital.com</a></td>
</tr>
<tr>
<td>FCP, FCP-2, SES</td>
<td>Robert Snively</td>
<td>(415) 336-5332 <a href="mailto:Bob.Snively@eng.sun.com">Bob.Snively@eng.sun.com</a></td>
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The long-term T10 meeting week schedule is:

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<td>Mar 8-12, 1999</td>
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<td>Jul 12-16, 1999</td>
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<td>LSI Logic</td>
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<td>QLogic</td>
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<tr>
<td>Nov 8-12, 1999</td>
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<td>Adaptec</td>
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<td>Jan 10-14, 2000</td>
<td>Brisbane, Australia</td>
<td>ENDL Pacific Technologies</td>
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<tr>
<td>Mar 6-10, 2000</td>
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<td>Unitrode</td>
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<tr>
<td>Nov 6-10, 2000</td>
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<td>Adaptec</td>
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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.

Bob Snively moved that T10 authorize the T10-related meetings and events in the list above. Jeff Williams seconded the motion. The motion passed unanimously.
Dal Allan asked the committee to provide a confirmation of the decision to hold the January 2000 meeting in Brisbane, Australia. Dal's confirmation was the lack of any motion to reconsider the decision to hold the January 2000 meetings in Brisbane.

15. Adjournment

The meeting was adjourned at 1:05 p.m. on Thursday September 17, 1998.
<table>
<thead>
<tr>
<th>Name</th>
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<th>Organization</th>
<th>Electronic Mail Address</th>
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<tbody>
<tr>
<td>Mr. Lawrence J. Lamers</td>
<td>P</td>
<td>Adaptec, Inc.</td>
<td><a href="mailto:ljlamers@ieee.org">ljlamers@ieee.org</a></td>
</tr>
<tr>
<td>Mr. Charles Brill</td>
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<td>Cable Design Technologies</td>
<td><a href="mailto:rwagner@montrose-ctd.com">rwagner@montrose-ctd.com</a></td>
</tr>
<tr>
<td>Mr. Edward Haske</td>
<td>O</td>
<td>CMD Technology</td>
<td><a href="mailto:haske@cmd.com">haske@cmd.com</a></td>
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<tr>
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Page 20 of 51
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48 People Present

Status Key:  P   -  Principal
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             O   -  Observer
             L   -  Liaison
             V   -  Visitor
T10 Attendance Database on 1998/09/22 at 16:09:42 -- Enclosure (2)

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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 May '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

T10/98-008R0  Date: 1998/05/13  Author:  J. Lohmeyer  Mailing: 1998_2
Agenda for T10 Meeting #27 (July '98)

T10/98-009R0  Date: 1998/05/13  Author:  J. Lohmeyer  Mailing: 1998_2
T10 Project Summary - May '98

T10/98-009R1  Date: 1998/05/20  Author:  J. Lohmeyer  Mailing: 1998_2
T10 Project Summary - May '98

T10/98-010R0  Date: 1998/05/13  Author:  J. Lohmeyer  Mailing: 1998_2
Jeopardy letter for Jul '98 meeting

T10/98-011R0  Date: 1998/07/20  Author:  J. Lohmeyer  Mailing: 1998_3
Agenda for T10 Meeting #28 (Sept '98)

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T10 Project Summary - Jul '98

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Jeopardy letter for Sep '98 meeting

T10/98-014R0  Date: 1998/07/22  Author:  J. Lohmeyer  Mailing: 1998_3
Letter Ballot on forwarding EPI to 1PR

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Letter Ballot on forwarding RBC to 1PR

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Results of letter ballot 98-014 on forwarding EPI

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T10/98-112R0 Date: 1998/02/02 Author: T. Coughlan Mailing: 1998_1
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T10/98-112R1 Date: 1998/07/15 Author: T. Coughlan Mailing: 1998_4
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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
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T10/98-115R3 Date: 1998/03/17 Author: Ralph Weber Mailing: 1998_1
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T10/98-116R0 Date: 1998/02/04 Author: Ron Roberts Mailing: 1998_1
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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
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T10/98-119R0 Date: 1998/02/11 Author: Pete McLean Mailing: 1998_1
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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
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T10/98-122R0  Date: 1998/03/02  Author: Ron Roberts  Mailing: 1998_1
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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: 1998/05/01  Author: Robert Snively  Mailing: 1998_2
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T10/98-124R2  Date: 1998/05/15  Author: Robert Snively  Mailing: 1998_2
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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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T10/98-127R0  Date: 1998/03/26  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
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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
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T10/98-131R0  Date: 1998/03/16  Author: Greg Kapraun  Mailing: 1998_1
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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
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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
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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
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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
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T10/98-145R0  Date: 1998/04/19  Author:  R. Weber          Mailing: 1998_2
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T10/98-146R0  Date: 1998/05/12  Author:  Lohmeyer/Weber    Mailing: 1998_2
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T10/98-146R1  Date: 1998/05/18  Author:  Lohmeyer/Weber    Mailing: 1998_2
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T10/98-159R1  Date: 1998/06/19  Author:  George Penokie  Mailing: 1998_3
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T10/98-159R2  Date: 1998/06/19  Author:  George Penokie  Mailing: 1998_4
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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: 1998/05/19  Author:  Robert Snively  Mailing: 1998_2
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T10/98-165R0  Date: 1998/05/05  Author:  Neil Wanamaker  Mailing: 1998_2
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T10/98-165R1  Date: 1998/05/05  Author:  Neil Wanamaker  Mailing: 1998_2
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T10/98-166R0  Date: 1998/05/05  Author:  Dave Guss  Mailing: 1998_2
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T10/98-167R0  Date: 1998/05/05  Author:  Pete Mclean  Mailing: 1998_2
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T10/98-168R0  Date: 1998/05/06  Author:  Pete Mclean  Mailing: 1998_2
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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_4
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T10/98-172R0  Date: 1998/05/07  Author:  Stewart Wyatt  Mailing: 1998_2
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T10/98-173R0  Date: 1998/05/16  Author:  Ralph Weber  Mailing: 1998_2
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T10/98-198R0  Date: 1998/07/10  Author:  Duncan Penman  Mailing: 1998_3
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T10/98-199R0  Date: 1998/07/10  Author:  Duncan Penman  Mailing: 1998_3
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T10/98-200R0  Date: 1998/07/16  Author:  Lohmeyer / Weber  Mailing: 1998_3
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T10/98-201R0  Date: 1998/07/20  Author:  Lohmeyer / Weber  Mailing: 1998_3
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T10/98-202R1  Date: 1998/09/06  Author:  Lohmeyer / Weber  Mailing: 1998_4
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T10/98-203R0  Date: 1998/07/07  Author:  George Penokie  Mailing: 1998_3
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T10/98-203R1  Date: 1998/07/21  Author:  George Penokie  Mailing: 1998_3
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T10/98-203R2  Date: 1998/07/22  Author:  George Penokie  Mailing: 1998_3
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T10/98-204R0  Date: 1998/07/15  Author:  George Penokie  Mailing: 1998_3
Editorial changes in SPI-3 from Rev 20a to Rev 20b

T10/98-205R0  Date: 1998/07/14  Author:  Jeff Williams  Mailing: 1998_3
Addition of Disable Off-Line Read Scan to Information Exception Page

T10/98-205R1  Date: 1998/07/16  Author:  Jeff Williams  Mailing: 1998_3
Addition of Disable Background Scan to Information Exception Page

T10/98-205R2  Date: 1998/09/09  Author:  Jeff Williams  Mailing: 1998_4
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T10/98-206R0  Date: 1998/07/14  Author:  Bob Snively  Mailing: 1998_3
Proposal for FCP Initiator Identification during Persistent Reservations

T10/98-206R1  Date: 1998/07/23  Author:  Bob Snively  Mailing: 1998_3
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T10/98-207R0  Date: 1998/07/14  Author:  Pete McLean  Mailing: 1998_3
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T10/98-208R0  Date: 1998/06/26  Author:  David B. Anderson  Mailing: 1998_3
Object Oriented Devices: Description of Requirements

T10/98-209R0  Date: 1998/07/16  Author:  Bob Snively  Mailing: 1998_4
List of changes from FCP Rev 10 to FCP Rev 12

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T10/98-211R0  Date: 1998/09/02  Author:  Duncan Penman  Mailing: 1998_4
Setup and Hold Timing Measurements

T10/98-212R0  Date: 1998/09/22  Author:  Lohmeyer & Weber  Mailing: 1998_4
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T10/98-213R0  Date: 1998/09/22  Author:  Lohmeyer & Weber  Mailing: 1998_4
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T10/98-214R0  Date: 1998/09/06  Author:  Lohmeyer & Weber  Mailing: 1998_4
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T10/98-215R0  Date: 1998/09/09  Author:  John Lohmeyer  Mailing: 1998_4
INQUIRY Data field to report transceiver type

T10/98-216R0  Date: 1998/09/11  Author:  Keith Parker  Mailing: 1998_4
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T10/98-217R0  Date: 1998/09/11  Author:  Jim McGrath  Mailing: 1998_4
Outstanding Issues in T10/98-177

T10/98-218R0  Date: 1998/09/11  Author:  Jim McGrath  Mailing: 1998_4
Ultra3: 16 vs 8 bit buses and LVD vs Single Ended Signaling

T10/98-219R0  Date: 1998/09/15  Author:  Zane Daggett, Bill Ham  Mailing: 1998_4
SCSI cable media performance specifications for Ultra3 and beyond

T10/98-220R0  Date: 1998/09/15  Author:  Louis Grantham  Mailing: 1998_4
Changing single-ended terminator max current from 22.4 to 24 mA

T10/98-221R0  Date: 1998/09/16  Author:  Pete McLean  Mailing: 1998_4
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T10/98-222R0  Date: 1998/09/16  Author:  Pete McLean  Mailing: 1998_4
Proposed RBC Letter Ballot Comments Resolution

T10/98-223R0  Date: 1998/09/16  Author:  Bill Ham  Mailing: 1998_4
New device type code for bridging expanders

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T10/98-224R0  Date: 1998/09/16  Author:  Kenneth W.  Mailing: 1998_4
How the Global File System uses Dlock

T10/98-225R0 Date: 1998/09/12 Author: O'Keefe, Preslan, Mailing: 1998_4 Sabol, & Soltis

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T10/98-226R0 Date: 1998/09/17 Author: Paul Aloisi Mailing: 1998_4
SPI-3 single-ended termination

T10/98-227R0 Date: 1998/09/15 Author: Bill Ham Mailing: 1998_4
Resolution of letter ballot comments relating to EPI