

Accredited Standards Committee*

National Committee for Information Technology Standards (NCITS)

Doc. No.: T10/01-091r0

Date: March 8, 2001

Reply to: John Lohmeyer

To: T10 Membership
From: Ralph Weber / John Lohmeyer
Subject: Minutes of T10 Plenary Meeting #42 -- March 8, 2001
Dallas, TX

Agenda

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 - 10.2.1 Making Target Reset optional in SAM-2 (01-015r2) [Elliott]

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- 10.2.2 SAM-2 AER enable and disable requirement for protocols (01-061r2) [Elliott]
- 10.2.3 SPC-3 VPD Page 83 Device Identifier rewrite (01-065r2) [Elliott]
- 10.3 Actions on Other Working Group Recommendations
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 - 11.2.1 Recommendation on FCD ballot (ISO/IEC FCD 14776-326) SCSI Reduced Block Commands (RBC)
 - 11.2.2 Recommendation on FCD ballot (ISO/IEC FCD 14776-362) Multimedia Commands (MMC-2)
 - 11.2.3 Recommendation on Answers to 6 Questions for NWIP and on CD ballot for ISO/IEC 14776-331, SCSI Stream Commands (SSC)
 - 11.2.4 List of Delegates to JTC 1/SC25 Plenary and meetings of its WGs
 - 11.2.5 Recommendation on FCD ballot (ISO/IEC FCD 14776-321) SCSI-3 Block Commands (SBC)
- 12. Liaison Reports
 - 12.1 T11 Liaison Report [Wanamaker]
 - 12.2 T13 Liaison Report [McLean]
 - 12.3 SFF Industry Group [Allan]
 - 12.4 IEEE 1394 [Johansson]
 - 12.5 SCSI Trade Association (STA) [Jones/Aloisi]
 - 12.6 IETF SCSI over IP [Black/Robinson]
 - 12.7 NCITS H2 (Database Languages) [Hare]
- 13. Review of Action Items
- 14. Meeting Schedule
 - 14.1 Authorization of Working Group Meetings
- 15. Adjournment

Results of Meeting

1. Opening Remarks

John Lohmeyer, the T10 Chair, called the meeting to order at 9:00 a.m., Thursday March 8, 2001. He thanked Paul Aloisi of Texas Instruments for hosting the meeting.

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

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

2. Approval of Agenda

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

- 10.1.1 Proposal for Ultra320 AAF receiver input signal specification for SPI-4 (00-400r2) [Evans]

- 10.1.2 Receiver Response Requirements (00-332r4) [Ham]
- 10.1.3 Corrections to SPI-4 Driving and Asserting SCSI Signals (01-096r1) [Moore]
- 10.1.4 Floor Motions [Penokie]
- 10.2.1 Making Target Reset optional in SAM-2 (01-015r2) [Elliott]
- 10.2.2 SAM-2 AER enable and disable requirement for protocols (01-061r2) [Elliott]
- 10.2.3 SPC-3 VPD Page 83 Device Identifier rewrite (01-065r2) [Elliott]
- 10.5 Style Guide [Moore]
- 12.7 NCITS H2 (Database Languages) [Hare]

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

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

3. Attendance and Membership

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

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

John briefly discussed the mailing fees. Complete pricing information is contained in the 2001 membership form (available at ftp://ftp.t10.org/t10/mem_form.txt).

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

The Chair said he had sent letters to 12 people from 5 organizations informing them that their membership was in jeopardy due to non-attendance (see 01-055r0) and that their membership would be terminated if they did not attend this meeting. The following organizations were in attendance jeopardy:

General Dynamics
Hewlett Packard Co.
Hitachi Cable Manchester, Inc.
Honda Connectors
Maxtor Corp.

All of these organizations were present.

No organizations requested new (or reinstated) membership.

The T10 membership during the meeting was 46 organizations unchanged from 46 organizations following the last meeting. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current T10 membership list.

No organizations requested new membership following the adjournment of the meeting.

T10 membership following the meeting was 46 members.

4. Approval of Minutes - January '01 Meeting - Lake Buena Vista, FL (T10/01-008r0)

The minutes were approved as written.

5. Document Distribution

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

John Lohmeyer requested that all documents for the next mailing be in his hands in electronic format by 10:30 a.m. on Thursday March 15, 2001. Documents received after this time may go into a subsequent mailing.

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

The electronic copies can be sent directly to John by email (at lohmeyer@t10.org), or they can be transferred by ftp protocol to ftp.t10.org and placed in the /incoming directory. In the latter case, please also send email to John informing him of the file name and location of the file.

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

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

The NCITS Secretariat maintains a World Wide Web page at <http://www.ncits.org/>. LSI Logic maintains a web site on behalf of T10 on a server donated by the SCSI Trade Association at:

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

There is also a mirror site at:

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

The current document register is enclosure (3). The T10 document register is also available at:

<ftp://ftp.t10.org/t10/dr.txt>

6. Call for Patents

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

A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge. This document is also on the WWW at http://www.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. Gene Milligan prepared a useful "Handy dandy Technical Committee's Patents Guide", which is available at <ftp://ftp.t10.org/t10/document.99/99-291r0.pdf>.

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

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

John Lohmeyer reported that LSI is disclosing a patent position on SDV as described in 01-059r0.

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

7. Review of Old Action Items

- 405) Bob Snively will announce the five year review of the standards identified in 01-037r0 on the T10 Reflector.
Failed to complete in time

8. Project Status Reports

8.1 Project Status Summary and NCITS Liaison [Lohmeyer]

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

NCITS asked Terry Nelson, our NCITS liaison, to make T10 aware of a new IEEE project:

P1579 (C/MM) Standard for Parallel 10 Gb/s Signaling (LiteLink)

John noted that the PAR for 1579 is available at <http://grouper.ieee.org/board/nescom/1579.pdf>.

John Lohmeyer reported that SSI has a new PAR, retaining the P1285 number, which is available at <http://grouper.ieee.org/board/nescom/1258.pdf>. The committee briefly discussed how people can join the ballot committee to offer comments on the proposal.

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

Dave Peterson reported that the letter ballot comment resolution is in 01-030r3. He further noted that FCP-2 revision 7 contains the resolutions to the letter ballot comments.

Dave Peterson moved that 01-030r3 and FCP-2 revision 7 be accepted as resolving the letter ballot comments and that FCP-2 revision 7 be forwarded to NCITS for processing toward first public review. Bob Snively seconded the motion. The motion passed on a vote of 33:1:2:10=46. George Penokie declined to state a reason for his no vote.

Because of the successful letter ballot resolution, Ralph Weber, Rob Elliott, and Gerry Houlder asked that their No votes on the letter ballot be changed to Yes votes. George Penokie asked that his No vote on the letter ballot be changed to an Abstain.

John Lohmeyer took an action item forward FCP-2 revision 7 to NCITS for processing toward first public review.

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

Ralph Weber reported that revision 16 of SAM-2 will be provided for the next mailing and will contain all committee-approved changes. He noted the possibility that work on SAM-2 will wind down so that a different, I_T nexus based, view of the SCSI model can be undertaken in a SAM-3.

8.4 SCSI Enclosure Services Amendment #1 (SES AM1) {Project 1212-M} [Elliott]

John Lohmeyer reported that SES AM1 had indeed been published as NCITS.305:1998/AM1. He thanked Rob Elliott for his efforts as project editor. (This item will be removed from subsequent agendas.)

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

Ralph Weber reported that the letter ballot comment resolution is in 00-267r7, including notes on the changes since r6. He further noted that SPC-2 revision 19 contains the resolutions to the letter ballot comments.

Ralph Weber moved that 00-267r7 and SPC-2 revision 19 be accepted as resolving the letter ballot comments and that SPC-2 revision 19 be forwarded to NCITS for processing toward first public review. Mark Evans seconded the motion. The motion passed on a vote of 33:0:0:13=46.

Based on the successful comments resolution for SPC-2, Ralph Weber, George Penokie, and Bob Snively asked that their No votes be changed to Yes votes.

John Lohmeyer took an action item to forward SPC-2 revision 19 to NCITS for processing toward first public review.

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

Bill McFerrin reported on the activities of the MMC-3 working group (minutes in 01-109).

At the request of the MMC working group, John Lohmeyer took an action item to conduct a letter ballot regarding forwarding of MMC-3 revision 9 to public review.

8.7 Reduced MultiMedia Command Set (RMC) {Project 1364-D} [McFerrin]

Bill McFerrin reported that a request will be made to close the RMC at the May meeting. In conjunction with the request to close RMC, a project proposal will be brought forward to start an MMC-4 project.

Bill McFerrin took an action item to inform the T10 reflector that a request to close the RMC project will be made at the May T10 meeting.

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

George Penokie reported on the activities of the SPI-4 working group (minutes in 01-089). George noted that a new revision of SPI-4 will be provided before the next meeting but probably not in time for the next mailing.

George indicated that the goal for SPI-4 is a letter ballot after the July meeting.

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

Ron Roberts reported that SDV revision 4 is available for the next mailing and described the activities of the SDV working group (minutes in 01-088).

8.10 SCSI on Scheduled Transfer (SST) {Project 1380-D} [Woelz]

Don Woelz reported that the working group reviewed SST at February meetings (minutes in 01-105). Don reported that SST revision 7 will be available but not in time for the next committee mailing.

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

In the absence of Erich Oetting, no SMC-2 report was available.

8.12 SCSI Signal Modeling (SSM) {Project 1414-DT} [Aloisi]

Paul Aloisi reported on the activities of the SSM working group (minutes in 01-075) and provided an electronic copy of his report in 01-106r0.

8.13 SCSI RDMA Protocol (SRP) {Project 1415-D} [Gardner]

Ed Gardner reported on the activities of the SRP working group (minutes in 01-073 and 01-092). Ed reported that a new revision of SRP will be available later this month but not in time for the next committee mailing.

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

Ralph Weber reported work on SPC-3 will begin after this meeting, including efforts to incorporate a dozen or so approved changes. He noted that SPC-3 revision 0 will be equivalent to SPC-2 revision 19 and that approved changes will be incorporated in revision 1. He stated that a new schedule for SPC-3 will be presented in May.

8.15 SCSI Block Commands - 2 (SBC-2) {Project 1417-D} [open]

John Lohmeyer reported that there still is a call for an editor for SBC-2.

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

John Lohmeyer reported that there still is a call for an editor on OSD and no one has expressed interest. John noted that a liaison has been established by the NCITS H2 TC (see item 12.7).

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

Dave Peterson reported on the activities of the SSC-2 working group (minutes in 01-082).

8.18 SCSI Passive Interconnect Performance (PIP) Technical Report (PIP) {Project 1439-DT} [Ham]

Zane Daggett reported on the activities of the PIP working group (minutes in 01-074).

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

Peter Johansson reported on the activities of the SBP-3 working group (minutes in 01-101). Peter noted a need for coordination between SBP-3 and the planned RBC-2 (Reduced Block Commands - 2) project.

9. Old Business**9.1 Five Year Reviews (01-037) [Lohmeyer]**

John Lohmeyer reported that the following standards are up for 5-year review:

- o CAM X3.232:1996
- o SSA-TP1 X3.295:1996
- o SSA-S2P X3.294:1996
- o SSA-PH1 X3.293:1996
- o FCP X3.269:1996

- o SAM X3.270:1996

John Lohmeyer moved that T10 recommend reaffirmation of CAM X3.232:1996, SSA-TP1 X3.295:1996, SSA-S2P X3.294:1996, SSA-PH1 X3.293:1996, FCP X3.269:1996, and SAM X3.270:1996. Gary Robinson seconded the motion. The motion passed on a vote of 32:0:1:13=46.

John Lohmeyer took an action item to notify NCITS that T10 recommends reaffirmation of CAM X3.232:1996, SSA-TP1 X3.295:1996, SSA-S2P X3.294:1996, SSA-PH1 X3.293:1996, FCP X3.269:1996, and SAM X3.270:1996.

10. New Business

10.1 Actions on Parallel SCSI Working Group Recommendations

10.1.1 Proposal for Ultra320 AAF receiver input signal specification for SPI-4 (00-400r2) [Evans]

Mark Evans moved that 00-400r2 be approved for inclusion in SPI-4. Paul Aloisi seconded the motion.

Bill Ham noted that there are two different sets of launch and receiver signal requirements with no clear way to decide between those requirements for the purpose of setting interconnect requirements. In the absence of any other inputs, the PIP group will be forced to document two relatively independent sets of interconnect performance requirements.

The motion passed on a vote of 22:1:8:15=46.

10.1.2 Receiver Response Requirements (00-332r4) [Ham]

Bill Ham moved that 00-332r4 be approved for inclusion in SPI-4. Mark Evans seconded the motion. The motion passed on a vote of 19:2:10:15=46.

10.1.3 Corrections to SPI-4 Driving and Asserting SCSI Signals (01-096r1) [Moore]

Rob Elliott moved that 01-096r1 be approved for inclusion in SPI-4. Paul Aloisi seconded the motion. The motion passed on a vote of 22:0:8:16=46.

10.1.4 Floor Motions [Penokie]

George Penokie reviewed the following floor motions from the SPI-4 working group:

- o [by Brian Day and Bruce Leshay] After reselection targets must release SEL for a minimum two deskew delays before asserting SEL as described in SPI-4 subclause 10.8.4.2.2.
- o [by Bruce Leshay and George Penokie] In 10.5.4 add in a requirement that if ATN is asserted, then the target shall go to message out, receive all the message bytes, and then perform an unexpected bus free.

George noted that the working group unanimously approved both motions.

Mark Evans moved that the recommendations of the working group showed above be approved for inclusion in SPI-4. Rob Elliott seconded the motion. The motion passed on a vote of 23:0:9:14=46.

10.2 Actions on CAP Working Group Recommendations

10.2.1 Making Target Reset optional in SAM-2 (01-015r2) [Elliott]

Rob Elliott moved that 01-015r2 be approved for inclusion in SAM-2. Cris Simpson seconded the motion. The motion passed on a vote of 15:6:11:14=46.

10.2.2 SAM-2 AER enable and disable requirement for protocols (01-061r2) [Elliott]

Rob Elliott moved that 01-061r2 and 01-065r2 (see item 10.2.3) be approved for inclusion in SAM-2 and SPC-3, respectively. Cris Simpson seconded the motion. The motion passed on a vote of 25:0:4:17=46.

10.2.3 SPC-3 VPD Page 83 Device Identifier rewrite (01-065r2) [Elliott]

Inclusion of 01-065r2 in SPC-3 was approved under agenda item 10.2.2.

10.3 Actions on Other Working Group Recommendations

No working group recommendations were brought before the committee under this agenda item.

10.4 Revised Project Proposal for SCSI Passive Interconnect Performance Standard (00-238r1) [Ham]

Zane Daggett described the reasons for changing the PIP project from a technical report to a standard.

Zane Daggett moved that T10 recommend that the project proposal for project 1439-DT be replaced with 00-238r1 with the effect being that PIP is changed from a technical report project to a standards development project. Paul Aloisi seconded the motion. The motion passed on a vote of 26:1:2:17=46. Mark Evans stated that his no vote was because his company would have to expend more resources to monitor a standards project vs. a technical report.

John Lohmeyer took an action item to notify NCITS that T10 recommends the replacement of the project proposal for project 1439-DT (PIP) with 00-238r1.

10.5 Style Guide [Moore]

Dennis Moore asked for volunteers to provide input for the proposed T10 document style guide. He also offered style information such as it is available to anyone interested.

11. ISO/IEC

11.1 ISO/IEC Report [Robinson]

Gray Robinson stated that the ISO report for this meeting is the ISO business in 11.2.

11.2 ISO/IEC Business [Robinson]

11.2.1 Recommendation on FCD ballot (ISO/IEC FCD 14776-326) SCSI Reduced Block Commands (RBC)

Gary Robinson reported on the following ISO/IEC question.

US TAG: NCITS/T10

SC: 25 N 624

Date Due to TAG Administrator: 04/02/01

Subject: For FCD ballot, ISO/IEC FCD 14776-326: IT - Small Computer System Interface - Part 326: SCSI Reduced Block Commands
SC/JTC 1 Due Date: 04/15/01

Gary Robinson moved that the IR be instructed to report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 624, and recommends that the JTC1 TAG approve, ISO/IEC FCD 14776-326: IT - Small Computer System Interface - Part 326: SCSI Reduced Block Commands. Bob Snively seconded the motion. On a roll call vote, the motion passed 33:1:0:12=46. Details of the roll call vote were as follows:

Organization	Stat	Name	Yes	No	Abs	NP
Adaptec, Inc.	P	Mr. Ron Roberts	1			
Amphenol Interconnect						1
Ancot Corp.	P	Mr. Bart Raudebaugh	1			
BREA Technologies, Inc.						1
Brocade Comm. Systems, Inc.	P	Mr. Robert Snively	1			
Circuit Assembly Corp.	P	Mr. Leroy Fong				
Cisco Systems, Inc.	P	Mr. David Peterson	1			
CMD Technology						1
Compaq Computer Corp.	P	Mr. Robert C. Elliott	1			
Congruent Software, Inc.	P	Mr. Peter Johansson	1			
Crossroads Systems, Inc.	P	Mr. Neil Wanamaker	1			
Dallas Semiconductor						1
Dallas Semiconductor						1
Dell Computer Corp.						1
EMC	P	Mr. Gary S. Robinson	1			
Emulex	P	Mr. Robert H. Nixon	1			
ENDL Texas	P	Mr. Ralph O. Weber	1			
Exabyte Corp.						1
FCI	P	Mr. Douglas Wagner	1			
Fujitsu	P	Mr. Eugene Lew	1			
General Dynamics	P	Mr. Nathan Hastad	1			
Genroco, Inc.	P	Mr. Donald Woelz	1			
Hewlett Packard Co.	A	Mr. Bill Hooper	1			
Hitachi Cable Manchester, Inc	P	Mr. Zane Daggett	1			
Honda Connectors						1
IBM / Tivoli Systems	P	Mr. George O. Penokie	1			
Intel Corp.	P	Mr. Cris Simpson	1			
Iomega Corp.	P	Mr. Tim Bradshaw	1			
KnowledgeTek, Inc.	P	Mr. Dennis Moore	1			
LSI Logic Corp.	P	Mr. John Lohmeyer	1			
Maxtor Corp.	P	Mr. Pete McLean	1			
Microsoft Corp.	A#	Mr. Rob Haydt	1			
Molex Inc.						1
Nishan Systems Inc.	P	Mr. Charles Monia	1			
Ophidian Designs				1		
Panasonic Technologies, Inc	P	Dr. Terence J. Nelson	1			
Philips Electronics/CD Edge	P	Mr. William P. McFerrin	1			
QLogic Corp.						1
Quantum Corp.	P	Mr. Mark Evans	1			
Seagate Technology	P	Mr. Gerald Houlder	1			
Storage Technology Corp.						1
Sun Microsystems, Inc.	P	Mr. Kenneth Moe	1			
Texas Instruments	P	Mr. Paul D. Aloisi	1			
Toshiba America Elec. Comp.	P	Mr. Tasuku Kasebayashi	1			
Troika Networks, Inc.	A	Mr. Rick Casaly	1			
AMP / Tyco Electronics	P	Mr. Charles Brill	1			
Woven Electronics	P	Mr. Doug Piper				1
			33	1	0	12 = 46

Gary Robinson took an action item to report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 624, and recommends that the JTC1 TAG approve, ISO/IEC FCD 14776-326: IT - Small Computer System Interface - Part 326: SCSI Reduced Block Commands.

11.2.2 Recommendation on FCD ballot (ISO/IEC FCD 14776-362) Multimedia Commands (MMC-2)

Gary Robinson reported on the following ISO/IEC question.

US TAG: NCITS/T10

SC: 25 N 610

Date Due to TAG Administrator: 04/02/01

Subject: For FCD ballot, ISO/IEC FCD 14776-362: IT - Small Computer System Interface (SCSI) - Part 362: Multimedia Commands (MMC-2)

SC/JTC 1 Due Date: 04/15/01

Gary Robinson moved that the IR be instructed to report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 610, and recommends that the JTC1 TAG approve ISO/IEC FCD 14776-362: IT - Small Computer System Interface (SCSI) - Part 362: Multimedia Commands (MMC-2). Bob Snively seconded the motion. On a roll call vote, the motion passed 33:1:0:12=46. Details of the roll call vote were the same as under item 11.2.1.

Gary Robinson took an action item to report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 610, and recommends that the JTC1 TAG approve ISO/IEC FCD 14776-362: IT - Small Computer System Interface (SCSI) - Part 362: Multimedia Commands (MMC-2).

11.2.3 Recommendation on Answers to 6 Questions for NWIP and on CD ballot for ISO/IEC 14776-331, SCSI Stream Commands (SSC)

Gary Robinson reported on the following ISO/IEC question.

US TAG: NCITS/T10

SC: 25 N 678 Date Due to TAG Administrator: 03/15/01

Subject: T10 Recommendation for Answers to 6 Questions for New Work Item Proposal, ISO/IEC 14776-331: IT - Small Computer System Interface (SCSI) - Part 331: Stream Commands (SSC)

SC/JTC 1 Due Date: 03/31/01

Gary Robinson moved that the IR be instructed to report to the JTC 1 TAG that T10 has reviewed NP, SC25 N 678, and recommends that the JTC1 TAG approve the NP ISO/IEC SC25 N 678 with the answers to the questions as documented in 01-087r1. T10 also instructs its IR to respond with an Approve when the JTC1 TAG requests a recommendation from T10 for their vote at JTC1 on this project, as long as no substantive changes have been made to the NP. In addition T10 document SSC-rev 22 will be forwarded to the JTC1 TAG for further processing as a CD. Bob Snively seconded the motion. On a roll call vote, the motion passed 33:1:0:12=46. Details of the roll call vote were the same as under item 11.2.1.

Continuing on the topic of SSC, Gary Robinson reported on the following ISO/IEC question.

Gary Robinson took an action item to report to the JTC 1 TAG that T10 has reviewed NP, SC25 N 678, and recommends that the JTC1 TAG approve the NP ISO/IEC SC25 N 678 with the answers to the questions as documented in 01-087r1.

Gary Robinson took an action item to respond with an Approve when the JTC1 TAG requests a recommendation from T10 for their vote at JTC1 on this project, as long as no substantive changes have been made to the NP.

Gary Robinson took an action item to forward SSC revision 22 to the JTC1 TAG for further processing as a CD.

US TAG: NCITS/T10

SC: 25 N 679

Date Due to TAG Administrator: 03/15/01

Subject: For CD ballot, ISO/IEC CD 14776-331: IT - Small Computer System Interface (SCSI) - Part 331: Stream Commands (SSC)

SC/JTC 1 Due Date: 03/31/01

Gary Robinson moved that the IR be instructed to report to the JTC 1 TAG that T10 has reviewed CD, SC25 N 679, and recommends that the JTC1 TAG approve ISO/IEC CD 14776-331: IT - Small Computer System Interface (SCSI) - Part 331: Stream Commands (SSC). Bob Snively seconded the motion. On a roll call vote, the motion passed 33:1:0:12=46. Details of the roll call vote were the same as under item 11.2.1.

Gary Robinson took an action item to report to the JTC 1 TAG that T10 has reviewed CD, SC25 N 679, and recommends that the JTC1 TAG approve ISO/IEC CD 14776-331: IT - Small Computer System Interface (SCSI) - Part 331: Stream Commands (SSC).

11.2.4 List of Delegates to JTC 1/SC25 Plenary and meetings of its WGs

Gary Robinson reported on the following ISO/IEC question.

US TAG: NCITS/T10

SC: 25 N 673

Date Due to TAG Administrator: 07/27/01

Subject: Request for List of U.S. Delegates to JTC 1/SC25 Plenary, 2001-08-31 and meetings of its WGs, 2001-08-27/30, PT SOHO, 2001-08-23-25

SC/JTC 1 Due Date: 07/30/01

Gary Robinson moved that T10 recommend the following list of delegates to the JTC1/SC25 and WG4 meeting the last week of August 2001 in Germany.

- o Gary S Robinson EMC² Corporation.

Bob Snively seconded the motion. On a roll call vote, the motion passed 33:1:0:12=46. Details of the roll call vote were the same as under item 11.2.1.

11.2.5 Recommendation on FCD ballot (ISO/IEC FCD 14776-321) SCSI-3 Block Commands (SBC)

Gary Robinson reported on the following ISO/IEC question.

US TAG: NCITS/T10

SC: 25 N 631

Date Due to TAG Administrator: 02/28/01 (Due Date extended to March 9, 2001)

Subject: For FCD ballot, ISO/IEC FCD 14776-321: Small Computer System Interface - Part 321: Block Commands (SCSI-3 SBC)

SC/JTC 1 Due Date: 02/28/01

Gary Robinson moved that the IR be instructed to report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 631, and recommends that the JTC1 TAG approve ISO/IEC FCD 14776-321: Small Computer System Interface - Part 321: Block Commands (SCSI-3 SBC). Bob Snively seconded the motion. On a roll call vote, the motion passed 33:1:0:12=46. Details of the roll call vote were the same as under item 11.2.1.

Gary Robinson took an action item to report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 631, and recommends that the JTC1 TAG approve ISO/IEC FCD 14776-321: Small Computer System Interface - Part 321: Block Commands (SCSI-3 SBC).

12. Liaison Reports

12.1 T11 Liaison Report [Wanamaker]

Neil Wanamaker reported on the activities of the T11 committee and provided the following electronic report for the minutes.

T11 last met on Feb. 8 in Huntington Beach, CA T11 last met on Feb. 8 in Huntington Beach, CA
68 in attendance; membership 69
Letter ballot on FC-SW-2 passed 53:0:5:13, 10 yes with comments
Voted to recommend reaffirmation of HIPPI-PH, FC-PH-AM-1, FC-FG, FC-AL, HIPPI-FC
Voted to recommend withdrawal of FC-GS, FC-SB
Motion to withdraw FC-LE failed to carry; LB in progress
Voted to return HIPPI-6400-OPT to T11.1
FC-VI, FC-FS in LB
FC-DA PP forwarded to NCITS
FC-SB-2 forwarded to ISO
Next meeting April 12 in Toronto, ON.

12.2 T13 Liaison Report [McLean]

Pete McLean reported to the committee and provided the following electronic report for the minutes:

T13 met last in Austin, TX, February 20 through 22, 2001 with 28 people present. Membership is now at 24 voting organizations.

NCITS has issued a Call for Volunteers - Chairman T13 to replace Gene Milligan. Anyone interested can access it on the home page at www.t13.org.

ATA/ATAPI-5, NCITS. 340-2001, has been published.

Protected Area Run Time Interface Extension, NCITS.346-200x, completed public review without comments and is now at NCITS letter ballot.

BIOS Enhanced Disk Drive Services (EDD), NCITS.347-200x, is currently in NCITS public review.

Address Offset Reserved Area Boot, NCITS TR-27, is up for NCITS approval in April.

The project proposal for BIOS Enhanced Disk Drive Services - 2 (EDD-2) has been approved as project 1484D.

ATA-2, X3.279-1996, has been withdrawn.

The next plenary will be held April 24 through 26, 2001 hosted by Seagate Technology in Longmont, Colorado. No ad hoc meetings are scheduled.

The T13 web site is at www.t13.org; the FTP site, at [ftp.t13.org](ftp://ftp.t13.org). The committee has a temporary reflector at t13@tgi.com. To join the temporary reflector send mail to hlandis@attglobal.net.

12.3 SFF Industry Group [Allan]

In the absence of Dal Allan no report was available. Bill Ham reported that the SFF web site is www.sffcommittee.com and that document 8000 contains a list of SFF specifications.

12.4 IEEE 1394 [Johansson]

Peter Johansson provided the following electronic report for the minutes:

IEEE P1394b, chaired by David Wooten (David.Wooten@IEEE.org), is in BRC after its first sponsor ballot. The BRC has reached consensus on technical resolutions and hopes to complete the editorial work necessary for a recirculation ballot in the very near future.

At its final meeting, the IEEE P1394.1 working group (High Performance Serial Bus Bridges) voted to forward a draft to the IEEE for sponsor ballot. The IEEE is in the process of forming a ballot group; the working group Chair, Peter Johansson (PJohansson@ACM.org), anticipates that the IEEE will commence sponsor ballot within the next 6 - 8 weeks.

Peer to Peer Data Transport (PPDT), a protocol based upon SBP-2, is still in its BRC process. The IEEE P1394.3 Chair, Greg LeClair, has asked that Peter Johansson assume the role of ballot coordinator and arrange BRC meetings to complete the process as soon as possible.

The 1394 Trade Association has formed a new working group to investigate "wireless 1394", in particular the use of IEEE P802.11e. A European group, ETSI, has already completed a specification that addresses "wireless 1394" as transported by HiperLAN 2. The Chair of the 1394 Trade Association is Steve Bard, Steve.Bard@Intel.com.

URLs of interest for these projects are:

<http://www.zayante.com/p1394b/>
<http://grouper.ieee.org/groups/1394/1/index.html>
<http://www.pwg.org/p1394/index.html>
<http://www.1394ta.org/>

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

Paul Aloisi reported on the activities of STA and provided an electronic report that can be found in 01-107r0.

12.6 IETF SCSI over IP [Black/Robinson]

In the absence of David Black and Gary Robinson, no report was available. Ralph Weber noted that the next IETF meeting is in Minneapolis, MN on 18-23 March. The IETF IPS working group is working to hold co-located meetings with T10 in April/May in Nashua, NH.

12.7 NCITS H2 (Database Languages) [Hare]

John reported that NCITS H2 has appointed Keith Hare as a liaison to T10. They are particularly interested in the OSD project as concerns their SQL language. Keith's contact data are:

Keith W. Hare
keith@jcc.com
Phone: 740-587-0157
Fax: 740-587-0163
<http://www.jcc.com>

JCC Consulting, Inc.
600 Newark Road
P.O. Box 381
Granville, Ohio 43023
USA

13. Review of Action Items

- 406) John Lohmeyer will forward FCP-2 revision 7 to NCITS for processing toward first public review.
- 407) John Lohmeyer will forward SPC-2 revision 19 to NCITS for processing toward first public review.
- 408) John Lohmeyer will conduct a letter ballot regarding forwarding of MMC-3 revision 9 to public review.
- 409) Bill McFerrin will inform the T10 reflector that a request to close the RMC project will be made at the May T10 meeting.
- 410) John Lohmeyer will notify NCITS that T10 recommends reaffirmation of CAM X3.232:1996, SSA-TP1 X3.295:1996, SSA-S2P X3.294:1996, SSA-PH1 X3.293:1996, FCP X3.269:1996, and SAM X3.270:1996.
- 411) John Lohmeyer will notify NCITS that T10 recommends the replacement of the project proposal for project 1439-DT (PIP) with 00-238r1.
- 412) Gary Robinson will report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 624, and recommends that the JTC1 TAG approve, ISO/IEC FCD 14776-326: IT - Small Computer System Interface - Part 326: SCSI Reduced Block Commands.
- 413) Gary Robinson will report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 610, and recommends that the JTC1 TAG approve ISO/IEC FCD 14776-362: IT - Small Computer System Interface (SCSI) - Part 362: Multimedia Commands (MMC-2).
- 414) Gary Robinson will report to the JTC 1 TAG that T10 has reviewed NP, SC25 N 678, and recommends that the JTC1 TAG approve the NP ISO/IEC SC25 N678 with the answers to the questions as documented in 01-087r1.
- 415) Gary Robinson will respond with an Approve when the JTC1 TAG requests a recommendation from T10 for their vote at JTC1 on this project, as long as no substantive changes have been made to the NP.
- 416) Gary Robinson will forward SSC revision 22 to the JTC1 TAG for further processing as a CD.
- 417) Gary Robinson will report to the JTC 1 TAG that T10 has reviewed CD, SC25 N 679, and recommends that the JTC1 TAG approve ISO/IEC CD 14776-331: IT - Small Computer System Interface (SCSI) - Part 331: Stream Commands (SSC).
- 418) Gary Robinson will report to the JTC 1 TAG that T10 has reviewed FCD, SC25 N 631, and recommends that the JTC1 TAG approve ISO/IEC FCD 14776-321: Small Computer System Interface - Part 321: Block Commands (SCSI-3 SBC).

14. Meeting Schedule

The next plenary meeting of T10 will be May 3, 2001 in Nashua, NH at the Sheraton Nashua Hotel (603-888-9970), hosted by Hitachi Cable Manchester. The meeting will begin at 9:00 a.m. on Thursday.

The meeting list for the next plenary week is:

May '01 Meeting Map
(2001/03/08 Version)

(2001 SCSI Version)														
Monday 4/30		9	10	11	12	1	2	3	4	5	6	7	8	9
		+=====+												
		SSC-2 WG / SAM-2 Editors (20)												
		+=====+												
Tuesday 5/1	8	9	10	11	12	1	2	3	4	5	6	7	8	9
		+=====+												
		Parallel SCSI WG (35)												
		+=====+												
		MMC WG (15)												
		+=====+												
		SBP-3 WG (20)												
		+=====+												
Wednesday 5/2		9	10	11	12	1	2	3	4	5	6	7	8	9
		+=====+												
		SCSI Commands, Arch., & Protocol WG (35)												
		+=====+												
		MMC WG (15)												
		+=====+												
		SBP-3 WG (20)												
		+=====+												
		STA Tech SFF SSWG/Plenary (15)												
		+-----+ +-----+												
Thursday 5/3		9	10	11	12	1	2	3	4	5	6	7	8	
		+=====+												
		T10 Plenary / OSD/SRP WG (*) (50)												
		+=====+												
		STA Marcom (15)												
		+-----+												
(*) - Meeting begins 1 hour after T10 meeting														
Friday 5/4	8	9	10	11	12	1	2	3	4	5				
		+-----+												
		SCSI Trade Association (STA) (25)												
		+-----+												
		SRP WG (15)												
		+=====+												

Meetings marked with == are T10-authorized meetings.

Meetings marked with -- are other groups and may change without notice.

Other T10-authorized meetings:

Meeting	Date	Location / Contact
SDV WG	3/26-27/01	Milpitas, CA / Roberts
Assym. Teleconf	3/30 10:00 am PST	Moe
PIP WG	4/3-4/01	Westboro, MA / Madison Cable
SSM WG	4/4-5/01	Westboro, MA / Madison Cable
SST WG	4/11/01	Toronto, ONT / T11
SBP-3 WG	4/26-27/01	Portland, OR
SBP-3 WG	6/4-8/01	Toronto, Canada
SST WG	6/6/01	Minneapolis, MN / T11
PIP WG	6/12-13/01	Wallingford, CT / Amphenol
SSM WG	6/13-14/01	Wallingford, CT / Amphenol
Meetings below here are tentative dates - not approved yet		
PIP WG	8/14-15/01	S. California / TI

SSM WG	8/15-16/01	S. California / TI
SBP-3 WG	8/27-29/01	Cupertino, CA
SBP-3 WG	10/2-5/01	East coast
PIP WG	10/23-24/01	Colorado Springs, CO / LSI
SSM WG	10/24-25/01	Colorado Springs, CO /LSI
PIP WG	12/11-12/01	Guadalajara, MX / JPM
SSM WG	12/12-13/01	Guadalajara, MX / JPM

Meeting Map Abbreviation Key:

Amnd: Amendment
 CAP: Commands, Architecture, and Protocols
 DVD: Digital Versatile Device (not an NCITS activity)
 EPI: SCSI Enhanced Parallel Interface (Technical Report)
 Fast-20: Data Transfer at 20 Mega-transfers/sec. (a.k.a., Ultra)
 Fast-40: Data Transfer at 40 Mega-transfers/sec. (a.k.a., Ultra2)
 Fast-80: Data Transfer at 80 Mega-transfers/sec. (a.k.a., Ultra3,Ultra160)
 Fast-160: Data Transfer at 160 Mega-transfers/sec. (a.k.a., Ultra320)
 FC: Fibre Channel
 FCIP: Fibre Channel over Internet Protocol
 Harbor: A project on defining a wrapper for physical devices
 I/F: Interface
 IETF: Internet Engineering Task Force (the group that sets Internet standards)
 iFC: Internet Fibre Channel
 IPS: Internet Protocol SCSI
 iSCSI: Internet SCSI
 LB: Letter Ballot
 MMC: Multimedia Commands (CD-ROM, DVD, etc.)
 OSD: Object-based Storage Device
 Par.: Parallel (e.g., SPI-n, Domain Validation)
 PH: Physical (Connectors, Cables, Transceivers, etc.)
 PIP: (SCSI) Passive Interconnect Performance
 Plenary: Full Committee Meeting
 Res: Resolution
 SBC-2: SCSI Block Commands - 2
 SCSI: Small Computer System Interface
 SDV: SCSI Domain Validation (Technical Report)
 SES: SCSI Enclosure Services
 SFF: SFF Industry Group (not an NCITS activity)
 SG: Study Group
 SMC-2: SCSI Medium Changer - 2 Commands
 SPC-2: SCSI Primary Commands - 2 (2nd generation)
 SPI-4: Fourth Generation SCSI Parallel Interface
 SRP: SCSI RDMA Protocol (was SVP)
 SSC-2: SCSI Stream Commands - 2 (includes Tape)
 SSM: SCSI Signal Modeling
 SST: SCSI on Scheduled Transfer (ST)
 SSWGs: Specific-Subject Working Groups
 STA: SCSI Trade Association (not an NCITS activity)
 STA Marcom: STA Marketing Communications (not an NCITS activity)
 STA Tech: STA Technical Meeting (T10 members invited)
 T10: Lower Level Interfaces Technical Committee
 T11: Device Level Interfaces Technical Committee
 WG: Working Group (same as Ad Hoc Group)

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

Activity	Contact	Telephone/Email
-----	-----	-----
EPI	Bill Ham	(508) 841-2629 bill.ham@digital.com
FCP-2, SES	Robert Snively	(408) 487-8135 rsnively@brocade.com
SBC, SBC-2	open	
MMC-2, MMC-3, RMC	Bill McFerrin	(303) 651-5400 BMcFerrin@aol.com
SBP-2 or RBC	Pete McLean	(303) 678-2149 pete_mclean@maxtor.com
SBP-2, SBP-3	Peter Johansson	(510) 527-3926 PJohansson@ACM.org
SCC-2, SPI-3, SPI-4	George Penokie	(507) 253-5208 gpenokie@tivoli.com
SDV	Ron Roberts	(408) 957-5640 Ron_Roberts@adaptec.com
SMC, SMC-2	Erich Oetting	(303) 673-2178 Erich_Oetting@Stortek.com
SPC-2, SPC-3, SAM-2	Ralph Weber	(214) 912-1373 roweber@acm.org
SSC, SSC-2	Dave Peterson	(612) 391-1008 dap@network.com
SSM	Larry Barnes	(719) 533-7432 larry.barnes@lsil.com
SRP (was SVP)	Ed Gardner	(719) 593-8866 eag@ophidian.com
Other Activities	John Lohmeyer	(719) 533-7560 lohmeier@t10.org

The long-term T10 meeting week schedule is:

Date	Location	Host/Comments
-----	-----	-----
Apr 30-May 4, 2001	Nashua, NH	Hitachi Cable
Jul 16-20, 2001	Colorado Springs, CO	LSI Logic
Sep 10-14, 2001	Huntington Beach, CA	QLogic
Nov 5-9, 2001	Monterey, CA	Adaptec
The dates below are approved, the locations and hosts are tentative		
Jan 14-18, 2002	Houston, TX	Compaq
Mar 11-15, 2002	Dallas, TX	T.I.
May 6-10, 2002	Ottawa, Ontario, Canada	Quantum
Jul 15-19, 2002	Colorado Springs, CO	LSI Logic
Sep 9-13, 2002	Bay Area	Adaptec
Nov 4-8, 2002	Huntington Beach, CA	QLogic
The dates below are proposed; T11 proposed meeting dates are shown for reference:		
Jan 13-17, 2003	T11: Feb 3-7	
Mar 10-14, 2003	T11: Apr 7-11	
May 5-9, 2003	T11: Jun 2-6	
Jul 14-18, 2003	T11: Aug 4-8	
Sep 8-12, 2003	T11: Oct 6-10	
Nov 3-7, 2003	T11: Dec 1-5	

John Lohmeyer moved that T10 accept the 2002 meeting dates and locations with the exception of May 2002. Ron Roberts seconded the motion. The motion passed on a vote of 34:0:12=46.

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.

Mark Evans moved that T10 authorize the T10-related meetings and events in the list above that had not previously been approved through the end of June 2001. Ron Roberts seconded the motion. In the absence of any objections, the motion passed unanimously.

15. Adjournment

The meeting was adjourned at 12:15 p.m. on Thursday March 8, 2001.

Enclosure(1) -- Meeting Attendees

Name	S	Organization	Electronic Mail Address
Mr. Ron Roberts	P	Adaptec, Inc.	Ron_Roberts@adaptec.com
Mr. Charles Brill	P	AMP / Tyco Electronics	cebrill@ix.netcom.com
Mr. Bill Mable	P	Amphenol Interconnect	mableaipc@aol.com
Mr. Bart Raudebaugh	P	Ancot Corp.	bart@ancot.com
Mr. Robert Snively	P	Brocade Comm. Systems, Inc.	rsnively@brocade.com
Mr. David Peterson	P	Cisco Systems, Inc.	dap@cisco.com
Mr. Robert C. Elliott	P	Compaq Computer Corp.	Robert.Elliott@compaq.com
Dr. William Ham	A	Compaq Computer Corp.	bill_ham@ix.netcom.com
Mr. Peter Johansson	P	Congruent Software, Inc.	PJohansson@ACM.org
Mr. Neil Wanamaker	P	Crossroads Systems, Inc.	ntw@crossroads.com
Mr. Titkwan Hui	A	Dallas Semiconductor	tk.hui@dalsemi.com
Mr. Gary S. Robinson	P	EMC	robinson_gary@emc.com
Mr. Robert H. Nixon	P	Emulex	bob.nixon@emulex.com
Mr. Ralph O. Weber	P	ENDL Texas	roweber@acm.org
Mr. Douglas Wagner	P	FCI	dwagner@fciconnect.com
Mr. Eugene Lew	P	Fujitsu	elew@fcpa.fujitsu.com
Mr. Nathan Hastad	P	General Dynamics	nathan.j.hastad@gd-is.com
Mr. Donald Woelz	P	Genroco, Inc.	don@genroco.com
Mr. Bill Hooper	A	Hewlett Packard Co.	bill_hooper@hp.com
Mr. Zane Daggett	P	Hitachi Cable Manchester, Inc	zdaggett@hcm.hitachi.com
Mr. Thomas J. Kulesza	P	Honda Connectors	tkulesza@hondaconnectors.com
Mr. George O. Penokie	P	IBM / Tivoli Systems	gpenokie@tivoli.com
Dr. Jim Hafner	V	IBM Corp.	hafner@almaden.ibm.com
Mr. Cris Simpson	P	Intel Corp.	cris.simpson@intel.com
Mr. Tim Bradshaw	P	Iomega Corp.	bradshat@iomega.com
Mr. Dennis Moore	P	KnowledgeTek, Inc.	dmoore@ix.netcom.com
Mr. John Lohmeyer	P	LSI Logic Corp.	lohmeyer@t10.org
Mr. Pete McLean	P	Maxtor Corp.	pete_mclean@maxtor.com
Mr. Rob Haydt	A#	Microsoft Corp.	robhay@microsoft.com
Mr. Charles Monia	P	Nishan Systems Inc.	cmonia@nishansystems.com
Mr. Edward A. Gardner	P	Ophidian Designs	eag@ophidian.com
Mr. Andy Green	V	Oxford Semiconductor Ltd.	andy.green@oxsemi.com
Dr. Terence J. Nelson	P	Panasonic Technologies, Inc	terry@tjnelson.com
Mr. William P. McFerrin	P	Philips Electronics/CD Edge	bill.mcferrin@cdedge.com
Mr. Skip Jones	P	QLogic Corp.	sk_jones@qlc.com
Mr. Mark Evans	P	Quantum Corp.	mark.evans@quantum.com
Mr. Gerald Houlder	P	Seagate Technology	gerry_houlder@seagate.com
Mr. Kenneth Moe	P	Sun Microsystems, Inc.	kenneth.moe@sun.com
Mr. Paul D. Aloisi	P	Texas Instruments	Paul_Aloisi@ti.com
Mr. Donald R. Getty	A#	Texas Instruments	donald_getty@ti.com
Mr. Tasuku Kasebayashi	P	Toshiba America Elec. Comp.	task.kasebayashi@taec.toshiba.com
Mr. Rick Casaly	A	Troika Networks, Inc.	rcasaly@troikanetworks.com
Mr. Ron Mathews	AV	UNISYS Corporation	ronald.mathews@unisys.com

43 People Present

Status Key: P - Principal
A, A# - Alternate

AV - Advisory Member
L - Liaison
V - Visitor

Enclosure(2) -- T10 Attendance Database

Generated on 2001/03/08 at 18:08:29

Mr. Ron Roberts (P) Adaptec, Inc. 691 S. Milpitas Blvd. Milpitas, CA 95035	Phone: (408) 957-5640 Fax: (530) 677-1218 Email: Ron_Roberts@adaptec.com
Mr. Ram Rangarajan (AV) Advansys 1150 Ringwood Ct. San Jose, CA 95131	Phone: (408) 383-5719 Fax: (408) 383-9612 Email: rrangarajan@advansys.com
Mr. Steven P. Ego (AV) Aeronics Inc. 12741 Research Blvd #500 Austin, TX 78759	Phone: (512) 258-2303 Fax: (512) 258-4392 Email:
Mr. Litko Chan (AV) Agilent Technologies 3175 Bowers Ave., MS 88R Santa Clara, CA 95054	Phone: (408) 970-3020 Fax: Email: lito_chan@agilent.com
Mr. Matt Wakeley (AV) Agilent Technologies 1101 Creekside Ridge Dr #100 P.O. Box 619051 Roseville, CA 95661-9051	Phone: (916) 788-5670 Fax: Email: matt_wakeley@agilent.com
Mr. Charles Brill (P) AMP / Tyco Electronics 112 Harvey Rd. Hershey, PA 17033	Phone: (717) 986-6489 Fax: (717) 520-9090 Email: cebrill@ix.netcom.com
Ms. Bonnie Rose (AV) Amphenol Canada Corp. 20 Melford Dr. Scarborough, Ontario Canada M1B 2X6	Phone: (416) 291-4401 x2239 Fax: (416) 292-0647 Email: brose@cosmosgroup.com
Mr. Bill Mable (P) Amphenol Interconnect 20 Valley St. Endicott, NY 13760	Phone: (607) 786-4287 Fax: (607) 786-4311 Email: mableaipc@aol.com
Mr. Michael Wingard (A) Amphenol Interconnect 20 Valley St. Endicott, NY 13760	Phone: (607) 786-4241 Fax: (607) 786-4311 Email: mikwingard@aol.com
Mr. Bart Raudebaugh (P) Ancot Corp.	Phone: (415) 322-5322 Fax: (415) 322-0455

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Email: bart@ancot.com

Mr. Harlan Andrews (AV)
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6 Infinite Loop MS 306-2MS
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Mr. James R. Bergsten (AV)
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49 Middle Road
Owego, NY 13827

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Mr. Gerry Johnsen (AV)
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Enclosure(3) -- T10 Document Database

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T10/01-001R0	Date:	Author:	Mailing: Missing
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T10/01-002R0	Date:	Author:	Mailing: Missing
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T10/01-003R0	Date:	Author:	Mailing: Missing
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T10/01-004R0	Date: 2000/11/14	Author: Dan Mazina and Rob Elliott	Mailing: 2001_1
Logical unit groups			
T10/01-004R1	Date: 2001/01/24	Author: Dan Mazina and Rob Elliott	Mailing: 2001_1
SPC-3 Logical unit groups			
T10/01-005R0	Date: 2001/01/15	Author: Bill Ham	Mailing: 2001_1
Minutes of SDV WG - January 15, 2001			
T10/01-005R1	Date: 2001/03/05	Author: Bill Ham	Mailing: 2001_1
Minutes of SDV WG - January 15, 2001 (aprovd)			
T10/01-006R0	Date: 2001/01/18	Author: Weber & Lohmeyer	Mailing: 2001_1
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T10/01-007R0	Date: 2001/01/18	Author: Weber & Lohmeyer	Mailing: 2001_1
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T10/01-007R1	Date: 2001/01/30	Author: Weber & Lohmeyer	Mailing: 2001_1
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T10/01-008R0	Date: 2000/11/29	Author: Weber & Lohmeyer	Mailing: 2001_1
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T10/01-008R1	Date: 2001/01/30	Author: Weber & Lohmeyer	Mailing: 2001_1
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T10/01-009R0	Date: 2000/11/29	Author: Rob Elliott	Mailing: 2001_1
Minutes of the SRP WG - November 29-30, 2000			
T10/01-010R0	Date: 2000/11/28	Author: Rob Elliott	Mailing: 2001_1
SRP asynchronous event reporting			
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T10/01-011R0	Date: 2000/12/06	Author: Dave Peterson	Mailing: 2001_1
Agenda for SSC-2 WG - December 6, 2000			
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T10/01-013R0	Date: 2000/12/06	Author: Umesh Chandra	Mailing: 2001_1
U320 Cable Cross Talk Analysis			

T10/01-014R0 Date: 2000/12/12 Author: Bruce Manildi Mailing: 2001_1
Backplane Characterization Methodology

T10/01-015R0 Date: 2000/12/08 Author: Rob Elliott Mailing: 2001_1
Making Target Reset optional in SAM-2

T10/01-015R1 Date: 2001/02/27 Author: Rob Elliott Mailing: 2001_2
Making Target Reset optional in SAM-2

T10/01-015R2 Date: 2001/03/07 Author: Rob Elliott Mailing: 2001_2
Making Target Reset optional in SAM-2

T10/01-016R0 Date: 2000/12/07 Author: Rob Elliott & Mailing: 2001_1
Greg Pellegrino
Meeting Announcement SRP WG - January 2001

T10/01-017R0 Date: 2000/12/12 Author: Bob Nixon Mailing: 2001_1
Minutes of Joint T10/T11.3 WG - December 6, 2000

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T10/01-019R0 Date: 2000/12/12 Author: Bill Ham Mailing: 2001_1
Minutes of PIP Working Group - December 12-13, 2000 (draft)

T10/01-019R1 Date: 2001/02/20 Author: Bill Ham Mailing: 2001_2
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T10/01-021R0 Date: 2000/12/18 Author: Rob Basham Mailing: 2001_1
Switching Between Explicit and Implicit Block Address Models

T10/01-022R0 Date: 2000/12/18 Author: Rob Basham Mailing: 2001_1
SPACE and LOCATE Commands in the Explicit Block Address Model

T10/01-023R0 Date: 2000/12/20 Author: Rob Basham Mailing: 2001_1
Explicit Block Address Model State Diagram

T10/01-024R0 Date: 2001/01/04 Author: Rob Elliott Mailing: 2001_1
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T10/01-025R0 Date: 2001/01/03 Author: Rob Elliott Mailing: 2001_1
SPC-2 FIRST BURST SIZE definition

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SPC-3 Access Controls LUN conflicts due to transport IDs

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T10/01-027R0 Date: 2000/12/22 Author: Robert Griswold Mailing: 2001_1
Media Serial Number Mode Page Proposal

T10/01-028R0 Date: 2001/01/03 Author: Greg Pellegrino Mailing: 2001_1

and Rob Elliott

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T10/01-028R1 Date: 2001/01/16 Author: Greg Pellegrino Mailing: 2001_1
and Rob Elliott

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T10/01-028R2 Date: 2001/02/18 Author: Greg Pellegrino Mailing: 2001_2
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T10/01-028R3 Date: 2001/03/05 Author: Greg Pellegrino Mailing: 2001_2
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T10/01-029R0 Date: 2001/01/17 Author: Keith Parker Mailing: 2001_1
[SSS] SCSI Socket Services status report 2001-01-17

T10/01-030R0 Date: 2001/01/10 Author: Bob Snively Mailing: 2001_1
Ballot comment resolution for comments on FCP-2, revision 05

T10/01-030R1 Date: 2001/01/24 Author: Bob Snively Mailing: 2001_1
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T10/01-030R2 Date: 2001/02/15 Author: Bob Snively Mailing: 2001_2
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T10/01-030R3 Date: 2001/03/07 Author: Bob Snively Mailing: 2001_2
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T10/01-031R0 Date: 2001/01/13 Author: Bill Galloway Mailing: 2001_1
QAS Handshake Correction

T10/01-032R0 Date: 2001/01/13 Author: Bill Galloway Mailing: 2001_1
Additional Flow Control Timings

T10/01-033R0 Date: 2000/12/07 Author: Terry Gibbons Mailing: 2001_1
SDV Technical Report - Testing Methods

T10/01-033R1 Date: 2001/02/06 Author: Terry Gibbons Mailing: 2001_2
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Internetwork addressing for SRP

T10/01-034R1 Date: 2001/01/16 Author: George Penokie Mailing: 2001_2
Transport of Initiator Identification Across Large Networks

T10/01-035R0 Date: 2001/01/12 Author: Dave Peterson Mailing: 2001_1
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T10/01-036R0 Date: 2001/01/15 Author: Dave Peterson Mailing: 2001_1
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T10/01-037R0 Date: 2001/01/12 Author: Kate McMillan Mailing: 2001_1
2001 Five-Year Maintenance Review of Standards

T10/01-038R0 Date: 2001/01/12 Author: Cris Simpson Mailing: 2001_1
SRP Initiator Inactivity Timeout Proposal

T10/01-039R0	Date: 2001/01/15	Author: Dave Peterson	Mailing: 2001_1
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T10/01-041R0	Date: 2001/01/14	Author: Cris Simpson	Mailing: 2001_1
Intel Patent Policy			
T10/01-042R0	Date: 2001/01/14	Author: Wally Bridgewater	Mailing: 2001_1
Effects of Precomp compared to no Precomp			
T10/01-043R0	Date: 2001/01/18	Author: Rob Elliott	Mailing: 2001_1
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T10/01-043R1	Date: 2001/01/29	Author: Rob Elliott	Mailing: 2001_2
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iSCSI protocol additions to SPC-2			
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Actual Precompensation Eye Diagrams			
T10/01-046R0	Date: 2001/01/17	Author: Roger Cummings	Mailing: 2001_1
SAN Management and SCSI Mode Pages			
T10/01-047R0	Date: 2001/01/16	Author: David Black	Mailing: 2001_1
Preliminary iSCSI Conclusions			
T10/01-048R0	Date: 2001/01/17	Author: Julian Satran	Mailing: 2001_1
SCSI ordering after exception on non interlocked transports			
T10/01-049R0	Date: 2001/01/13	Author: Neil Wanamaker	Mailing: 2001_1
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T10/01-050R0	Date: 2001/01/18	Author: Bill McFerrin	Mailing: Missing
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T10/01-051R0	Date: 2001/01/18	Author: Paul Aloisi	Mailing: 2001_1
STA Report - January 18, 2001			
T10/01-052R0	Date: 2001/01/18	Author: Paul Aloisi	Mailing: 2001_1
SCSI Signal Modeling Report - January 18, 2001			
T10/01-053R0	Date: 2001/01/22	Author: John Lohmeyer	Mailing: 2001_1
Agenda for T10 Meeting #42 (Mar '01)			
T10/01-053R1	Date: 2001/01/24	Author: John Lohmeyer	Mailing: 2001_1
Agenda for T10 Meeting #42 (Mar '01)			
T10/01-053R2	Date: 2001/02/21	Author: John Lohmeyer	Mailing: 2001_2
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T10/01-053R3	Date: 2001/02/28	Author: John Lohmeyer	Mailing: 2001_2
Agenda for T10 Meeting #42 (Mar '01)			
T10/01-054R0	Date: 2001/01/22	Author: John Lohmeyer	Mailing: 2001_1

T10 Project Summary - Jan '01

T10/01-055R0 Date: 2001/01/22 Author: John Lohmeyer Mailing: 2001_1
Jeopardy Letter for Mar '01 meeting

T10/01-056R0 Date: 2001/01/19 Author: Edward A. Gardner Mailing: 2001_1
Connecting to an InfiniBand (tm) IO Device

T10/01-057R0 Date: 2001/01/23 Author: Eric Anderson Mailing: 2001_2
Proposal for Fast Start in SBP-3

T10/01-058R0 Date: 2001/01/24 Author: Bill McFerrin Mailing: 2001_1
Copyright release for T10/00-417 and T10/00-418

T10/01-059R0 Date: 2001/01/24 Author: William Wuertz Mailing: 2001_2
LSI Logic Patent Position re SCSI Domain Validation Technical Report

T10/01-060R0 Date: 2001/02/19 Author: Eric Anderson Mailing: 2001_2
Minutes of SBP-3 Working Group

T10/01-061R0 Date: 2001/01/29 Author: Rob Elliott Mailing: 2001_1
SAM-2 AER enable and disable requirement for protocols

T10/01-061R1 Date: 2001/02/01 Author: Rob Elliott Mailing: 2001_2
SAM-2 AER enable and disable requirement for protocols

T10/01-061R2 Date: 2001/03/07 Author: Rob Elliott Mailing: 2001_2
SAM-2 AER enable and disable requirement for protocols

T10/01-062R0 Date: 2001/01/30 Author: Cris Simpson Mailing: 2001_2
Meeting Notice - SRP WG February 20-21, 2001

T10/01-063R0 Date: 2001/02/01 Author: Dave Peterson Mailing: 2001_2
Agenda of Joint T10/T11.3 Working Group - Feb 7, 2001

T10/01-064R0 Date: 2001/02/09 Author: Bob Nixon Mailing: 2001_2
Minutes of Joint T10/T11.3 Working Group - Feb 7, 2001

T10/01-065R0 Date: 2001/02/05 Author: Rob Elliott Mailing: 2001_2
SPC-3 VPD Page 83 Device Identifier rewrite

T10/01-065R1 Date: 2001/02/06 Author: Rob Elliott Mailing: 2001_2
SPC-3 VPD Page 83 Device Identifier rewrite

T10/01-065R2 Date: 2001/03/07 Author: Rob Elliott Mailing: 2001_2
SPC-3 VPD Page 83 Device Identifier rewrite

T10/01-066R0 Date: 2001/02/15 Author: Rob Elliott Mailing: 2001_2
SPI-4: SCC Subpages for SPI initiator negotiated settings

T10/01-067R0 Date: 2001/02/12 Author: Lance Flake Mailing: 2001_2
RBC Access For AV/C Data Interchange in SBP-3

T10/01-068R0 Date: 2001/02/16 Author: George Penokie Mailing: 2001_2
Definition of Well Known Logical Units

T10/01-068R1 Date: 2001/03/01 Author: George Penokie Mailing: 2001_2
Definition of Well Known Logical Units

T10/01-069R0	Date: 2001/01/18	Author: Steve Powers	Mailing: 2001_2
Surprise removal of 1394 storage devices			
T10/01-070R0	Date: 2001/02/19	Author: Peter Johansson	Mailing: 2001_2
Bridge-aware targets and node handles			
T10/01-071R0	Date: 2001/02/20	Author: Cris Simpson	Mailing: 2001_2
InfiniBand (tm) Multi-Channel Connections for SRP			
T10/01-072R0	Date: 2001/02/21	Author: Ralph Weber	Mailing: 2001_2
FCP-2 6.109 Response Needs to Change			
T10/01-073R0	Date: 2001/02/21	Author: Greg Pellegrino	Mailing: 2001_2
Minutes of the SRP WG - February 20-21, 2001			
T10/01-074R0	Date: 2001/02/21	Author: Bill Ham	Mailing: 2001_2
Minutes of PIP Working Group - February 20-21, 2000 (draft)			
T10/01-075R0	Date: 2001/02/21	Author: Bill Ham	Mailing: 2001_2
Minutes of SSM Working Group - February 21-22, 2001 (draft)			
T10/01-076R0	Date: 2001/02/21	Author: Bill Ham	Mailing: Missing
PIP round robin results			
T10/01-077R0	Date: 2001/03/05	Author: Dave Peterson	Mailing: 2001_2
Agenda for Joint T10/T11.3 WG - March 5, 2001			
T10/01-078R0	Date: 2001/02/22	Author: Dave Peterson	Mailing: Missing
Minutes of Joint T10/T11.3 WG - March 5, 2001			
T10/01-079R0	Date: 2001/03/08	Author: Ed Gardner	Mailing: 2001_2
SRP Target Identification			
T10/01-080R0	Date: 2001/03/08	Author: Ed Gardner	Mailing: 2001_2
SRP Initiator Identification			
T10/01-081R0	Date: 2001/03/05	Author: Dave Peterson	Mailing: 2001_2
Draft Agenda of SSC-2 Working Group - March 5, 2001			
T10/01-082R0	Date: 2001/03/07	Author: Dave Peterson & Paul Suhler	Mailing: 2001_2
Minutes of SSC-2 Working Group - March 5, 2001			
T10/01-083R0	Date: 2001/02/23	Author: Paul Entzel	Mailing: 2001_2
Proposed change to Table 9 in SSC-2, revision 2			
T10/01-084R0	Date: 2001/02/26	Author: George Penokie	Mailing: 2001_2
Names, Addresses, Identifiers, Oh my!			
T10/01-085R0	Date: 2001/02/27	Author: Cris Simpson	Mailing: Missing
SRP MultiChannel Proposal			
T10/01-086R0	Date: 2001/03/06	Author: Keith Holt	Mailing: 2001_2
SRP Transfer Length Proposal			
T10/01-087R0	Date: 2001/02/28	Author: Gary Robinson	Mailing: 2001_2
Proposed motion for T10 recommendation on ISO/IEC NWI for SSC			
T10/01-087R1	Date: 2001/03/07	Author: Gary Robinson	Mailing: 2001_2

Proposed motion for T10 recommendation on ISO/IEC NWI for SSC

T10/01-088R0 Date: 2001/03/05 Author: Bill Ham Mailing: 2001_2
Minutes of SDV WG - March 5, 2001

T10/01-089R0 Date: 2001/03/08 Author: Weber & Lohmeyer Mailing: 2001_2
Minutes of Parallel SCSI WG - March 6, 2001

T10/01-090R0 Date: 2001/03/08 Author: Weber & Lohmeyer Mailing: 2001_2
Minutes of SCSI CAP WG - March 7, 2001

T10/01-091R0 Date: 2001/02/28 Author: Weber & Lohmeyer Mailing: Missing
Minutes of T10 Plenary Meeting #42 -- March 8, 2001

T10/01-092R0 Date: 2001/02/28 Author: Rob Elliott Mailing: Missing
Minutes of the SRP WG - March 8-9, 2001

T10/01-093R0 Date: 2001/03/02 Author: Ralph Weber Mailing: 2001_2
It's the I_T Nexus, Stupid

T10/01-094R0 Date: 2001/03/02 Author: Wally Bridgewater Mailing: 2001_2
1st pulse attenuation

T10/01-095R0 Date: 2001/03/06 Author: Rob Elliott Mailing: 2001_2
Project Proposal for SCSI Bridge Controller Commands (BCC)

T10/01-096R0 Date: 2001/03/02 Author: Richard Moore Mailing: 2001_2
Corrections on Driving and Asserting SCSI signals

T10/01-097R0 Date: 2001/03/02 Author: Richard Moore Mailing: 2001_2
Packetized CRC Intervals

T10/01-098R0 Date: 2001/03/06 Author: Ron Roberts Mailing: Missing
Project Proposal for an RBC-2 Standard

T10/01-099R0 Date: 2001/03/05 Author: Rob Elliott Mailing: 2001_2
SPC-3 Letting persistent reservations ignore target ports

T10/01-100R0 Date: 2001/03/07 Author: Rob Elliott Mailing: 2001_2
SPC-3 Letting persistent reservations ignore initiator ports

T10/01-101R0 Date: 2001/03/06 Author: Eric Anderson Mailing: Missing
Minutes of SBP-3 WG - March 6-7, 2001

T10/01-102R0 Date: 2001/02/13 Author: Scott Smyers Mailing: 2001_2
Proposal for modifications to SBP3 and RBC

T10/01-103R0 Date: 2001/03/06 Author: Firooz Farhoomand Mailing: 2001_2
SBP3

T10/01-104R0 Date: 2001/03/07 Author: Ed Gardner Mailing: 2001_2
SRP Protocol Identifiers

T10/01-105R0 Date: 2001/03/07 Author: Roger Ronald Mailing: 2001_2
Minutes of T11.1 HIPPI Ad Hoc WG (includes SST in 7.0)

T10/01-106R0 Date: 2001/03/08 Author: Paul Aloisi Mailing: 2001_2
SCSI Signal Modeling Report - March 8, 2001

T10/01-107R0 Date: 2001/03/08 Author: Paul Aloisi
SCSITA T10 Plenary Report - March 8, 2001

Mailing: 2001_2

T10/01-108R0 Date: 2001/03/08 Author: Rob Elliott
SRP Dropping Target Reset Support

Mailing: 2001_2

T10/01-109R0 Date: 2001/03/08 Author: Bill McFerrin
Minutes of MMC-3 Working Group - March 6-7, 2001

Mailing: 2001_2