Accredited Standards Committee*
X3, Information Processing Systems

X3 Technical Committee
Annual Report for 1992
X3T9.2 -- Lower Level Interfaces

I.   Projects

1.   Interfaces Between Flexible Disks and Their Host Controllers

a.   Project 52-M, Interfaces Between Flexible Disks and Their Host Controllers

b.   Target date for dpANS to X3:

Original target date: ?
Previous target date:
Current target date: Published

c.   Project Description: This is a maintenance project on X3.80-1998, Interfaces Between Flexible Disks and Their Host Controllers.

d.   Publications During Past Year: none.

e.   Statement of Progress or Accomplishments During Year: none.

f.   Statement of Status as of This Report: 5-year review is due.

g.   Future Plans: Decide whether to reaffirm.

h.   Reasons for Delay: none.

2.   Small Computer System Interface (SCSI-2)

a.   Project 375-R, Small Computer System Interface (SCSI-2)

b.   Target date for dpANS to X3:

Original target date: January 1988
Previous target date: September 1991
Current target date: December 1991

c.   Project Description: This is an extension of ANSI, X3.131, Small Computer System Interface, a low cost but highly "intelligent" bus interface for microprocessor-based computer systems. The interface is primarily aimed at the interconnection of small computers and high-bandwidth block transfer peripherals and includes relatively high-level command sets for magnetic disks and tapes, optical disks, and printers. This is a multimaster bus which also supports direct computer-to-computer interconnections. SCSI-2 adds some new device types (e.g., scanners, communications devices, and "jukeboxes") and considerably expands the command sets for some existing device types. It also provides for faster data transfer rates (up to 40 MBytes per second).

d.   Publications During Past Year: none.

e.   Statement of Progress or Accomplishments During Year: A first public review period concluded in July 1992. One comment was received from U.S. Design. The comment was addressed without making changes to the draft SCSI-2 document and the person who submitted the comment has accepted the response.

        The dpANS was sent to the ISO Editor and he returned the marked-up document to the committee. At year-end, the comments were incorporated into the document and it was being reviewed by several task group members for accuracy.

f.   Statement of Status as of This Report: The SCSI-2 dpANS is ready to return to the ISO Editor for confirmation that his comments have been incorporated correctly. Once the ISO has accepted the editing changes, it will be sent to X3 for letter ballot.

g.   Future Plans: X3T9.2 has begun activities on a family of SCSI-3 projects including: SCSI-3 Parallel Interface (SPI) [855-D], SCSI-3 Interlocked Protocol (SIP) [856-D], Generic Packetized Protocol (GPP) [xxx-D], Serial Bus Protocol (SBP) [xxx-D], Fibre Channel Protocol (FCP) [xxx-D], SCSI-3 Architecture Model (SAM) [xxx-D], SCSI-3 Primary Commands (SPC) [xxx-D], SCSI-3 Block Commands (SBC) [xxx-D], SCSI-3 Stream Commands (SSC) [xxx-D], SCSI-3 Graphics Commands (SGC) [xxx-D], and SCSI-3 Medium Changer Commands (SMC) [xxx-D].

h.   Reasons for Delay: The project was delayed because of a change in the ANSI publication practices which was made retroactive to include SCSI-2.

3.   Enhanced Small Device Interface (ESDI)

a.   Project 587-D, Enhanced Small Device Interface (ESDI)

b.   Target date for dpANS to X3:

        Original target date:
        Previous target date: April 1989
        Current target date: X3 approved ESDI 10/10/89

c.   Project Description: ESDI defines a disk interface oriented toward newer disk drives with transfer rates of 10 to 24 Mbit/sec. Much of the development work on ESDI was done by an industry group while this project was assigned to X3T9.3. In June 1987, this project was transferred to X3T9.2.

d.   Publications During Past Year: none.

e.   Statement of Progress or Accomplishments During Year: none.

f.   Statement of Status as of This Report: Published.

g.   Future Plans: none.

h. Reasons for Delay:

4. AT Attachment Interface for Disk Drives (ATA)

a. Project 791-D, AT Attachment Interface for Disk Drives

b. Target date for dpANS to X3:

Original target date: August 1991
Previous target date: December 1991
Current target date: July 1993

c. Project Description: The widespread use of desktop computers with a 16-bit memory bus has led to the adoption within the industry of a disk drive which attaches via a subset of the personal computer AT bus. Because of their compatibility with existing personal computer AT hardware and software this interface quickly became a de facto industry standard. The intent of this project is to develop a standard to specify a subset of the AT bus specifically for the direct attachment of peripherals. This standard will specify the mechanical and electrical characteristics as well as the methods by which commands are directed to peripherals, the contents of registers, and the method of data transfers.

d. Publications During Past Year: Three revisions of the AT Attachment working draft standard were distributed.

e. Statement of Progress or Accomplishments During Year: The draft proposed AT Attachment standard completed its first public review period with 3 registered comments and 3 unregistered comments. Substantive changes were made to address the comments.

f. Statement of Status as of This Report: X3T9.2 is addressing a NO vote on a letter ballot to forward AT Attachment back to X3T9 for second public review.

g. Future Plans: An ATA Extensions project is in development phase.

h. Reasons for Delay: Public review comments.

5. SCSI Common Access Method (SCSI CAM)

a. Project 792-D, SCSI Common Access Method

b. Target date for dpANS to X3:

Original target date: August 1991
Previous target date: June 1992
Current target date: September 1993

c. Project Description: This project defines a common method to access SCSI devices through a standard software interface to SCSI host adapters for several popular operating systems. This should result in simplified integration of products.

d. Publications During Past Year: Two revisions of the SCSI-2 Common Access Method Transport and SCSI Interface Module working draft document was distributed.

e. Statement of Progress or Accomplishments During Year: The first public review period closed January 1, 1993. One comment from Commodore was received.

f.   Statement of Status as of This Report: X3T9.2 plans to make substantive changes to address the comment.

g.   Future Plans: X3T9.2 expects to forward CAM back to X3T9 in July 1993. A project proposal for a CAM-2 project has been submitted to X3. The letter ballot closed March 9, 1993, but the results were not available at this writing.

h.   Reasons for Delay: X3T9.2 decided that SCSI CAM would benefit from addressing the public review comment.

6.   SCSI Technical Information Bulletins

a.   Project 817-D, SCSI Technical Information Bulletins

b.   Target date for dpANS to X3:

        Original target date: February 1991
        Previous target date:
        Current target date: none

c.   Project Description: To develop Technical Information Bulletins addressing X3.131-199x. The interpretations to be developed by X3T9 do not have any impact on the SCSI-2 standard but will be available as guidelines for those who request them.

d.   Publications During Past Year: none.

e.   Statement of Progress or Accomplishments During Year: none.

f.   Statement of Status as of This Report: This project is on hold pending the approval of SCSI-2 (project 375-R).

g.   Future Plans: none.

h.   Reasons for Delay: SCSI-2 being revised as described in project 375-R.

7.   SCSI-3 Command Set (SCS)

a.   Project 854-D, SCSI-3 Command Set

b.   Target date for dpANS to X3:

        Original target date: April 1993
        Previous target date: April 1993
        Current target date: none

c.   Project Description: The SCSI-3 Command Set standard will maintain a high degree of compatibility with SCSI-2 command sets while providing extensions and enhancements to support new features and new devices. This standard will not include the physical transport and media access layers as was the case in SCSI-2. Instead, multiple transport mechanisms will be supported through separate standards.

d.   Publications During Past Year: none.

e.   Statement of Progress or Accomplishments During Year: Some agreements have been reached for SCS and are documented in the form of accepted committee documents, and/or meeting

minutes. Project proposals were drafted and forwarded by X3T9.2 for dividing SCS into six projects: SCSI-3 Architecture Model (SAM) [xxx-D], SCSI-3 Primary Commands (SPC) [xxx-D], SCSI-3 Block Commands (SBC) [xxx-D], SCSI-3 Stream Commands (SSC) [xxx-D], SCSI-3 Graphics Commands (SGC) [xxx-D], and SCSI-3 Medium Changer Commands (SMC) [xxx-D].

f.   Statement of Status as of This Report: The X3 letter ballot on dividing the SCS project closed March 9, 1993. The results were not available at the time of this report.

g.   Future Plans: Develop the draft documents.

h.   Reasons for Delay: The committee energy has been devoted to the lower layers of SCSI-3. The number of changes in the command set area layer of SCSI have not been great enough to justify expediting this project.

8.   SCSI-3 Parallel Interface (SPI)

a.   Project 855-D, SCSI-3 Parallel Interface

b.   Target date for dpANS to X3:

        Original target date: April 1992
        Previous target date: December 1992
        Current target date: July 1993

c.   Project Description: The SCSI-3 Parallel Interface standard will maintain a high degree of compatibility with SCSI-2 while providing documentation for new capabilities including an option to permit 16-bit data transfers on a single cable and expanded bus connectivity options to increase the maximum number of SCSI devices on a cable from 8 to 16 or more. This standard is not intended to address areas above the physical level (such as protocol and command sets). It is intended that this proposed standard could be used in conjunction with the command sets defined in SCSI-2 and/or subsequent versions of SCSI.

d.   Publications During Past Year: Three draft documents were distributed.

e.   Statement of Progress or Accomplishments During Year: Most of the technical issues have been addressed. Work is continuing on the documentation issues involve in having the SPI document separate from the SIP document.

f.   Statement of Status as of This Report: This document is nearly ready for forwarding.

g.   Future Plans: Get SPI through the approval process.

h.   Reasons for Delay: This is the first SCSI-3 document to near completion. Much of the recent delay has been due to learning how to write standards for a layered architecture.

9.   SCSI-3 Interlocked Protocol (SIP)

a.   Project 856-D, SCSI-3 Interlocked Protocol

b.   Target date for dpANS to X3:

        Original target date: April 1992
        Previous target date: December 1992
        Current target date: January 1994

c.   Project Description: The SCSI-3 Interlocked Protocol standard will maintain a high degree of compatibility with the equivalent functions in SCSI-2 while defining several new features and functions. The candidate new features are support of more than 8 devices, dual porting, and other evolutionary features. This standard is intended to be used in conjunction with the SCSI-2 Parallel Interface standard and the SCSI-3 command set standards.

d.   Publications During Past Year: A second draft document was distributed.

e.   Statement of Progress or Accomplishments During Year: This project has been on hold for much of the year as the editor focused his energy on the SPI document.

f.   Statement of Status as of This Report: A service interface description is now available for the SPI document and work is expected to resume on SIP during 1993.

g.   Future Plans: Continue development.

h.   Reasons for Delay: This project has encountered delays due the slips in the SCSI-3 Parallel Interface project and in definition of the interface to the SCSI-3 command set documents.

10.   SCSI-3 Packetized Protocol (SPP)

a.   Project 881-D, SCSI-3 Packetized Protocol

b.   Target date for dpANS to X3:

Original target date: December 1992
Previous target date: December 1992
Current target date: none

c.   Project Description: The SCSI-3 Packetized Protocol standard will define a generic protocol for transferring SCSI-3 Command Set information in a packetized format. This will permit SCSI commands, data, and status to be transferred over serial interfaces in a highly portable fashion. This approach will minimize the amount of interface-specific information required to map to a given interface. The SCSI-3 Packetized Protocol defines most of the functions it requires and uses minimal services of the specific interface. This protocol is intended to minimize "turn arounds" so that overhead times are minimally dependent on distance.

d.   Publications During Past Year: Two draft documents were distributed.

e.   Statement of Progress or Accomplishments During Year: Progress was on the draft document has been made and project proposals to split this project into three projects were forwarded by X3T9.2. The projects would be: Generic Packetized Protocol (GPP) [xxx-D], Serial Bus Protocol (SBP) [xxx-D], and Fibre Channel Protocol (FCP) [xxx-D].

f.   Statement of Status as of This Report: The X3 letter ballot on dividing the SPP project closed March 9, 1993. The results were not available at the time of this report.

g.   Future Plans: Develop the draft documents.

h.   Reasons for Delay: Consensus could not be reached on doing just one generic protocol.

11.   ATA Extensions

a.   Project 948-D, ATA Extensions

b.   Target date for dpANS to X3:

        Original target date: December 1992
        Previous target date:
        Current target date: December 1993

c.   Project Description: This project is intended to develop extensions to the draft AT Attachment standard without requiring changes to presently installed devices or existing software. Candidates for features in this standard include items that were identified late in the development of the AT Attachment draft standard an other evolutionary features.

d.   Publications During Past Year: none.

e.   Statement of Progress or Accomplishments During Year: An editor for this project has been found and several proposals have been submitted.

f.   Statement of Status as of This Report: In development.

g.   Future Plans: Develop the draft document.

h.   Reasons for Delay: Unrealistic target date in the project proposal.

12.   Directly-Addressable Device Interface (DADI)

a.   Project 964-D, Directly-Addressable Device Interface

b.   Target date for dpANS to X3:

        Original target date: December 1993
        Previous target date:
        Current target date: December 1993

c.   Project Description: This project is intended to develop a device interface to provide an alternative means of attaching storage devices which is better suited to direct board mounting than the traditional channel model.

d.   Publications During Past Year: none.

e.   Statement of Progress or Accomplishments During Year: Project approved by X3. Proposals have been solicited.

f.   Statement of Status as of This Report: In development.

g.   Future Plans: Develop the draft document.

h.   Reasons for Delay: No delay to date.

II.   Committee Projects: SD-4 Report Input

X3 PROJ. No/TYPE	Title [Authorizing Document]	STD. DESIG.	EST. CMPL. DATE	ISO PROJ. DESIG.	JTC 1 DOC. NO.
0052-M	Interfaces Between Flexible Disks and Their Host Controllers [SPARC/83-360]	X3.80-1988		25.10	ISO 9315
0375-R	Small Computer System Interface (SCSI-2) [X3T9/85-136 Rev 1]	X3.131-199X	1992	10.13	DIS 9316
0587-D	Enhanced Small Device Interface (ESDI) [X3/86-2079]	X3.170-1990/ X3.170a-1991		10.12	DIS 10222
0791-D	AT Attachment Interface for Disk Drives [X3/90-1510]		1993		
0792-D	SCSI Common Access Method (CAM) [X3/90-1511]		1993		
0817-D	SCSI Technical Information Bulletins [X3/90-2578]	N/A	1993	N/A	
0854-D	SCSI-3 Command Set (SCS) [X3/91-674R]		N/A		
0855-D	SCSI-3 Parallel Interface (SPI) [X3/91-676R]		1993		
0856-D	SCSI-3 Interlocked Protocol (SIP) [X3/91-677R]		1993		
0881-D	SCSI-3 Packetized Protocol (SPP) [X3/90-675R]		N/A		
0948-D	ATA Extensions [X3/92-2651R]		1994		
0964-D	Directly-Addressable Device Interface (DADI) [?]		1994		

III.   Committee Activities

a.   Previous Year's Meetings:

February 17-18, 1992; Austin, TX
April 27-28, 1992; St. Petersburg Beach, FL
June 22-23, 1992; Minneapolis, MN
August 17-18, 1992; Seattle, WA
October 12-13, 1992; Ft. Lauderdale, FL
December 7-8, 1992; San Diego, CA

b.   Next Year's Planned Meetings:

February 15-16, 1993; Austin, TX
April 19-20, 1993; St. Petersburg Beach, FL
July 22-23, 1993; Manchester, NH
September 16-17, 1993; Poughkeepsie, NY
November 11-12, 1993; Colorado Springs, CO

c.   Officers:

Chairman: John B. Lohmeyer
Vice Chairman: I. Dal Allan
Secretary: Lawrence J. Lamers

d.   Membership: The current X3T9.2 membership list at the end of 1992 is attached.

e.   Liaison Activities: X3T9.3, ISO/IEC JTC1/SC25/WG4, IT8, IEEE P1394, IEEE P1285.

f.   Administrative Matters of Note:

X3T9.2 has initiated a program to pay for professional editing services through a surcharge to the committee's mailing subscription fee. The surcharge is $50/year. The funds are collected by the X3 Secretariat and payments are authorized by X3T9.2 votes. This avoids the difficulty of setting up a task group treasury.

X3T9.2 has rearranged its meeting schedule so that it can hold its plenary meeting at the end of the X3T9.2/X3T9.3 working group week. This should reduce travel costs for task group members. The last X3T9.2 meeting during the X3T9 plenary week will be in April '93. Starting in July '93, X3T9.2 will meet on Thursday afternoon and Friday morning of the working group week. This will reduce the number of plenary meetings in 1993 to 5.

g.   Procedural Matters of Note:

X3T9.2 needs guidance on a number of patent issues. Some of the issues identified are:

1. What are the obligations of a task group if a patent which may be applicable to a project has been identified and the patent holder declines to issue a "Statement of Patent Holder"?

2. Is the task group obligated to determine whether or not a patent is infringed? If so, is ANSI's legal counsel available to the committee?

3. Should committee correspondence involving patent issues be reviewed by counsel? Which counsel?

4. Are patent holders required to disclose license agreements executed prior to their signing a "Statement of Patent Holder"?

5. Are holders of previously executed licensed agreements under different terms automatic proof of "unfair discrimination".

6. How is the value of a license agreement determined when it is part of a cross licensing agreement?

7. Must the patent holder license under the same terms and conditions for each applicable standard?

IV.   Anticipated Projects

X3T9.2 may submit a project proposal on a local bus version of the AT Attachment interface.

V.   Future Trends in This Technical Area

The lower-level I/O interface market is in a state of transition. This is largely the result of technological advances

that permit physically smaller disk drives. These drives will trend toward I/O interfaces that directly attach to host system circuit cards without an interface cable. This has resulted in less emphasis on interfaces employing a cable and more emphasis on interfaces that can either plug directly into a processor card or into a device connector such as the PCMCIA.

Meanwhile, other I/O interface applications such as magnetic tape, printers, and optical devices are trending toward serial interfaces to reduce cabling costs. A key enabling technology for these applications is the higher clock rates now available in CMOS and other circuit technologies.

Attachments

Final 1992 X3T9.2 Membership Summary
Final 1992 X3T9.2 Document Register

X3T9.2 Final 1992 Membership

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X3T9.2 Final 1991 Document Register

X3T9.2/92-1   Date: Author: J. Lohmeyer [1/21/92]
Desc: X3T9.2 1991 Annual Report
 Res:

X3T9.2/92-2   Date: 12/10/91 Author: SC 25/WG 4 Secretariat [1/21/92]
Desc: Standardization Activities in ISO/IEC JTC 1/SC 25/WG 4
 Res:

X3T9.2/92-3   Date: 12/10/91 Author: SC 25/WG 4 Secretariat [1/21/92]
Desc: Draft Report of 2nd Mtg of WG 4 held in Bremen, Germany 9/30-10/2 1991
 Res:

X3T9.2/92-4   Date: 1/10/92 Author: B. Spence [1/21/92]
Desc: Cable Impedance Revisited
 Res:

X3T9.2/92-5   Date: 1/15/92 Author: Lamers/Lohmeyer [1/21/92]
Desc: Houston Working Group Minutes
 Res:

X3T9.2/92-6 Rev 1   Date: 7/16/92 Author: K. Jones [9/15/92]
Desc: Enhancement of Sequential Access Command Set for Medium Changers
 Res: Parts accepted in principal for SCSI-3

X3T9.2/92-7 Rev 1   Date: 2/13/92 Author: V. Novak [3/24/92]
Desc: Proposed SCSI Identifier Symbols
 Res: Accepted for SCSI-3 SPI at 2/92 plenary meeting

X3T9.2/92-8   Date: 1/11/92 Author: W. Burr [1/21/92]
Desc: An Introduction to X3T9 and I/O Interface Standards
 Res:

X3T9.2/92-9   Date: 1/7/92 Author: L. Lamers [1/21/92]
Desc: ltr to Mr. Mori responding to his questions in 91-170
 Res:

X3T9.2/92-10   Date: 1/13/92 Author: T. Hanan [1/21/92]
Desc: PCMCIA IDE Host Interface Implementation Guide
 Res:

X3T9.2/92-11   Date: 1/13/92 Author: C. Runowicz [1/21/92]
Desc: DMA data transfer method as outlined in AT Attachment
 Res:

X3T9.2/92-12   Date: 1/14/92 Author: J. Williams [1/21/92]
Desc: CA Clearing Commands
 Res:

X3T9.2/92-13   Date: 1/14/92 Author: J. Williams [1/21/92]
Desc: Conflicting Statement on CA and Queue Suspension
 Res:

X3T9.2/92-14   Date: 1/10/92 Author: E. Gardner [1/21/92]
Desc: Previewing Linked Commands in SCSI-3
 Res:

X3T9.2/92-15   Date: 1/10/92 Author: E. Gardner [1/21/92]
Desc: The Meaning of Linked Commands in SCSI-3
 Res:

X3T9.2/92-16   Date: 1/13/92 Author: C. Mosley [1/21/92]
Desc: SCSI-3 Connector Presentation
 Res:

X3T9.2/92-17   Date: 1/14/92 Author: F. Samela [1/21/92]
Desc: Signal Line Increased Current Kicker
 Res:

X3T9.2/92-18   Date: 1/16/92 Author: L. Lamers [1/21/92]
Desc: DADI Working Group Minutes 1/13/92
 Res:

X3T9.2/92-19 Rev 1   Date: 1/24/92 Author: Penokie/Lamers [1/21/92]
Desc: SCSI-3 Queuing Working Group Minutes 1/13/92
 Res:

X3T9.2/92-20   Date: 1/14/92 Author: B. Spence [1/21/92]
Desc: SPI Working Group Minutes for January 1992
 Res:

X3T9.2/92-21   Date: Author: J. Lohmeyer [1/21/92]
Desc: SPP Working Group Minutes 1/15/92
 Res:

X3T9.2/92-22   Date: 1/17/92 Author: Penokie/ Mosley [1/21/92]
Desc: SPI Connector Contact Working Group Minutes 1/15/92
 Res:

X3T9.2/92-23   Date: 1/1/92 Author: M. Mitoma [1/21/92]
Desc: Serial Storage Architecture
 Res:

X3T9.2/92-24   Date: 1/15/92 Author: I. Judd [1/21/92]
Desc: A Serial Link for Storage Subsystems (presentation)
 Res:

X3T9.2/92-25   Date: 11/15/91 Author: I. Judd [1/21/92]
Desc: A Serial Link for Storage Subsystems (paper)
 Res:

X3T9.2/92-26   Date: 12/12/91 Author: C. Butterworth [1/21/92]
Desc: Serial Storage Architecture SSA-0 (Transport Layer) Ver 1.0
 Res:

X3T9.2/92-27   Date: 12/12/91 Author: C. Butterworth [1/21/92]
Desc: Serial Storage Architecture SSA-1 (Disk Order Level) Ver 1.0
 Res:

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X3T9.2/92-28          Date: 1/14/92  Author: M. Jordan  [1/21/92]
Desc: Fast Single Ended SCSI Terminator Concept -- Active Negation Emulator
 Res:

X3T9.2/92-29          Date: 1/18/92  Author: Dal Allan  [1/21/92]
Desc: Translation of IPI-3 Command Queueing to SCSI Language
 Res:

X3T9.2/92-30          Date: 1/31/92  Author: L. Lamers  [3/24/92]
Desc: SPP Architectural Meeting January 27-28, 1992
 Res: n.a.

X3T9.2/92-31          Date: 2/5/92  Author: Smyers, Neer, & Newsom  [3/24/92]
Desc: Alternate P-Cable Connector for SCSI-3
 Res: On General WG Agenda 3/16/92 17:00

X3T9.2/92-32          Date: 2/11/92  Author: K. Chan  [3/24/92]
Desc: Fast SCSI Timing Problems and Solutions
 Res: Assigned to SPI WG

X3T9.2/92-33          Date: 2/7/92  Author: S. Smyers  [3/24/92]
Desc: Proposed Requirements for SCSI-3 devices which use P1394 Physical I/F
 Res: To be included in Annex of SBP document

X3T9.2/92-34          Date: 2/14/92  Author: J. P. McGrath  [3/23/92]
Desc: DMA Meeting at HP-PCG on 1/24/92
 Res: On ATA Extensions agenda for 3/16/92 14:00

X3T9.2/92-35 Rev 2    Date: 4/28/92  Author: G. Penokie  [5/14/92]
Desc: SCSI-3 Alt 1 Connector Requirements
 Res: Accepted for SCSI-3 Parallel Interface

X3T9.2/92-36          Date: 2/18/92  Author: B. Spence  [3/24/92]
Desc: Termination of Reserved Lines
 Res:

X3T9.2/92-37          Date: 2/18/92  Author: B. Ham  [3/24/92]
Desc: Specifications for SPI Transceivers
 Res:

X3T9.2/92-38          Date: 2/13/92  Author: F. Oprescu  [3/24/92]
Desc: Proposal for Glitch Immunity Specification
 Res:

X3T9.2/92-39          Date: 2/12/92  Author: A. Crick  [3/24/92]
Desc: Microsoft concerns with the CAM XPT/SIM document
 Res:

X3T9.2/92-40          Date: 2/21/92  Author: Lamers/Lohmeyer  [3/24/92]
Desc: X3T9.2 Meeting #98 Minutes -- February 17, 1991
 Res: n.a.

X3T9.2/92-41          Date: 2/22/92  Author: Lamers/Penokie  [3/24/92]
Desc: Austin Queuing Working Group Minutes
 Res: n.a.

X3T9.2/92-42          Date: 12/30/91  Author: R. Gibson  [3/24/92]
Desc: International Participation Fee
 Res:

X3T9.2/92-43          Date: 2/18/92  Author: Spence/Lamers  [3/24/92]
Desc: SPI Working Group Minutes for February 1992
 Res: n.a.

X3T9.2/92-44          Date:   Author: J. Tecco  [3/24/92]
Desc: May 1992 Working Group Announcement
 Res:

X3T9.2/92-45 Rev 1    Date: 4/27/92  Author: Charles Monia  [5/14/92]
Desc: Introduction to Packetized SCSI
 Res:

X3T9.2/92-46 Rev 1    Date: 3/20/92  Author: G. Houlder  [3/24/92]
Desc: Request for new Additional Sense Codes
 Res: On Apr '92 WG agenda

X3T9.2/92-47          Date: 3/12/92  Author: E. Gardner  [3/24/92]
Desc: Request for Sequential-Access Density Codes
 Res:

X3T9.2/92-48          Date: 3/12/92  Author: J. McGrath  [3/24/92]
Desc: Molex Pin Chamfer Proposal
 Res:

X3T9.2/92-49          Date: 3/16/92  Author: C. Mosley  [3/24/92]
Desc: SCSI-3 Connector
 Res:

X3T9.2/92-50          Date: 3/17/92  Author: B. Spence  [3/24/92]
Desc: 8-bit Drives Within a 16-bit SCSI System
 Res:

X3T9.2/92-51          Date: 3/16/92  Author: T. Newsom  [3/24/92]
Desc: Presentation on Alternative Ribbon Connector for SCSI-3
 Res:

X3T9.2/92-52          Date: 9/4/90  Author: T. Newsom  [3/24/92]
Desc: IBM Procurement Specification on Mini Ribbon D Shell Connector
 Res:

X3T9.2/92-53          Date: 2/18/91  Author: T. Newsom  [3/24/92]
Desc: Burndy Specification on Microshield (tm) Receptacle
 Res:

X3T9.2/92-54          Date:   Author: T. Newsom  [3/24/92]
Desc: AMP Specification on Receptacle Assembly, 60 Position, Champ .050
 Res:

X3T9.2/92-55          Date: 1/31/90  Author: T. Newsom  [3/24/92]
Desc: Molex Specification on Mini Ribbon Shell Shielded Connector
 Res:
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X3T9.2/92-56          Date: 3/12/92  Author: A. Wilhelm  [3/24/92]
Desc: Proposal to modify Device Type 0 to support Media Interchange
 Res:

X3T9.2/92-57          Date: 3/16/92  Author: T. Debiec  [3/24/92]
Desc: Proposal for SCSI Cable Performance Specification
 Res:

X3T9.2/92-58          Date: 3/13/92  Author: C. Ghest  [3/24/92]
Desc: Statement re US patent of Glitch remover circuit
 Res:

X3T9.2/92-59          Date: 2/17/92  Author: B. Ham  [3/24/92]
Desc: Electrical Impacts of SCSI Hot Plugging
 Res:

X3T9.2/92-60          Date: 3/18/92  Author: J. Lohmeyer  [3/24/92]
Desc: ltr re PCMCIA/ATA Proposal, dated February 24, 1992
 Res:

X3T9.2/92-61          Date: 3/16/92  Author: T. Asami  [3/24/92]
Desc: SCSI ACK Net with Wired-OR Driver
 Res: Presented at 3/92 SPI WG Meeting

X3T9.2/92-62          Date: 3/17/92  Author: K. Chan  [3/24/92]
Desc: Differential Fast Synchronous Timing
 Res: Presented at 3/92 SPI WG Meeting

X3T9.2/92-63 Rev 1    Date: 5/15/92  Author: J. Blagaila  [7/15/92]
Desc: Integral Peripherals 68 Pin IDE Pinout
 Res:

X3T9.2/92-64          Date: 12/18/91  Author: Hanan & Abrahamsson  [3/24/92]
Desc: PCMCIA IDE Drive Auto Select Proposal
 Res:

X3T9.2/92-65 Rev 1    Date: 5/15/92  Author: S. Shah  [7/15/92]
Desc: Support for Greater than 528MB ATA Drive
 Res:

X3T9.2/92-66          Date: 1/28/92  Author:   [3/24/92]
Desc: IBM 9333 SCSI Mapping
 Res:

X3T9.2/92-67          Date: 1/29/92  Author: J. Best  [3/24/92]
Desc: SSA-PH Appendix Daisy Chain
 Res:

X3T9.2/92-68          Date: 3/16/92  Author: B. Herron  [3/24/92]
Desc: 3M High-Density .050" "D" Ribbon Style Interconnect System
 Res:

X3T9.2/92-69          Date: 3/13/92  Author: B. Bellino  [3/24/92]
Desc: Madison Cable Impedance Variations
 Res:

X3T9.2/92-70          Date: 3/16/92  Author: L. Lamers  [3/24/92]
Desc: ATA Extensions Working Group Minutes 3/16/92
 Res:

X3T9.2/92-71          Date: 3/18/92  Author: Lamers/Lohmeyer  [3/24/92]
Desc: X3T9.2 General Working Group Minutes 3/16-18/92
 Res:

X3T9.2/92-72          Date: 3/17/92  Author: Lamers/Spence  [3/24/92]
Desc: SPI Working Group Minutes for March 1992
 Res:

X3T9.2/92-73          Date: 2/27/92  Author: D. Shoemaker  [3/24/92]
Desc: ltr to Don Laughry re IEE MSC/X3T9 Memory Attach Strategy
 Res:

X3T9.2/92-74 Rev 1    Date: 3/18/92  Author: S. Shah  []
Desc: Public Review Comment on AT Attachment (BSR X3.221)
 Res:

X3T9.2/92-75          Date: 3/18/92  Author: J. Gallant  [3/24/92]
Desc: Creating a TIB for SCSI-2 Tag Queuing working model.
 Res:

X3T9.2/92-76          Date: 3/16/92  Author: G. Penokie  [3/24/92]
Desc: Connector Contact Working Group Meeting Minutes 3/16/92
 Res:

X3T9.2/92-77          Date: 4/13/92  Author: John Lohmeyer  [5/14/92]
Desc: Response to M. Freeman of MSC on his 4/6/92 letter
 Res:

X3T9.2/92-78          Date: 4/6/92  Author: M. Freeman  [5/14/92]
Desc: Letter to John Lohmeyer on MAT/MSC P1265
 Res:

X3T9.2/92-79 Rev 3    Date: 8/15/92  Author: Charles Monia  [9/15/92]
Desc: working draft of the SCSI-3 Architecte Model (SAM)
 Res:

X3T9.2/92-80          Date: 4/27/92  Author: F. Crowell  [5/14/92]
Desc: DS-Links Technical Information
 Res:

X3T9.2/92-81          Date: 4/6/92  Author: Lynn Barra  [5/14/92]
Desc: Transmittal of Public Review Comment #1 ATA
 Res:

X3T9.2/92-82          Date: 4/7/92  Author: Lynn Barra  [5/14/92]
Desc: Approval of Project Proposal for AT Attachements Extensions
 Res:

X3T9.2/92-83 Rev 2    Date: 5/4/92  Author: S. Washburn  [7/15/92]
Desc: Request for Sequential Access Density Codes
 Res: Accepted for SCSI-3
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X3T9.2/92-84 Rev 1     Date: 4/24/92  Author: L. Lamers [5/14/92]
Desc: Preparing Documents for Committee Mailings
 Res:

X3T9.2/92-85 Rev 5     Date: 9/29/92  Author: G. Penokie [11/15/92]
Desc: Change Inquiry Mode Page
 Res:

X3T9.2/92-86           Date: 4/27/92  Author: D.W. Spence [5/14/92]
Desc: SCSI Implementation in a 3.3 volt Environment
 Res:

X3T9.2/92-87           Date: 4/27/92  Author: D.W. Spence [5/14/92]
Desc: Key Changes Proposed for the SPI Standard
 Res:

X3T9.2/92-88           Date: 4/23/92  Author: J. Gallant [5/14/92]
Desc: Two Changes for the CAM document
 Res: Accepted for CAM rev 3.0

X3T9.2/92-89           Date: 4/13/92  Author: D. Rundle [5/14/92]
Desc: Status of IEC 48B Standards Efforts
 Res:

X3T9.2/92-90           Date: 4/27/92  Author: F. Crowell [5/14/92]
Desc: Presentation Foils of Serial DS-Link Technology
 Res:

X3T9.2/92-91           Date: 4/8/92  Author: J. McGrath [5/14/92]
Desc: Tolerance Analysis of P-cable Connection
 Res:

X3T9.2/92-92           Date: 4/28/92  Author: J. Lohmeyer [5/14/92]
Desc: Letter to M. Freeman on Grass Roots
 Res:

X3T9.2/92-93 Rev 2     Date: 6/22/92  Author: B. Ham [7/15/92]
Desc: SCSI-3 Connector Framework
 Res:

X3T9.2/92-94           Date: 3/13/92  Author: I. Dal Allan [5/14/92]
Desc: Information Package on 1988 Connector Decision
 Res:

X3T9.2/92-95 Rev 1     Date: 5/14/92  Author: Lamers/Lohmeyer [5/14/92]
Desc: Minutes of X3T9.2 Plenary Meeting #99
 Res:

X3T9.2/92-96           Date: 4/27/92  Author: T. Asami [5/14/92]
Desc: Pin Capacitance of a SCSI Controller LSI
 Res:

X3T9.2/92-97           Date: 4/27/92  Author: B. Ham [5/14/92]
Desc: Requirement for Glitch Free Power Up/Down
 Res:

X3T9.2/92-98           Date: 4/29/92  Author: M. Freeman [5/14/92]
Desc: IEEE P1285 PAR
 Res:

X3T9.2/92-99           Date: 4/13/92  Author: I. Dal Allan [5/14/92]
Desc: Connector Agenda Items
 Res:

X3T9.2/92-100          Date: 5/4/92  Author: Spence/Lamers [5/14/92]
Desc: SPI Working Group Minutes for April 1992
 Res:

X3T9.2/92-101 Rev 1    Date: 5/1/92  Author: I. Dal Allan [5/14/92]
Desc: Project Proposal for SCSI-3 Generic Packetized Protocol
 Res:

X3T9.2/92-102 Rev 1    Date: 5/1/92  Author: I. Dal Allan [5/14/92]
Desc: Project Proposal for SCSI-3 Serial Bus Protocol
 Res:

X3T9.2/92-103 Rev 1    Date: 5/1/92  Author: I. Dal Allan [5/14/92]
Desc: Project Proposal for SCSI-3 Fiber Channel Protocol
 Res:

X3T9.2/92-104          Date: 5/1/92  Author: I. Dal Allan [5/14/92]
Desc: Project Proposal for SCSI-3 Architecture Model
 Res:

X3T9.2/92-105 Rev 1    Date: 8/29/92  Author: I. Dal Allan [9/15/92]
Desc: Project Proposal for SCSI-3 Core Commands
 Res:

X3T9.2/92-106 Rev 1    Date: 8/29/92  Author: I. Dal Allan [9/15/92]
Desc: Project Proposal for SCSI-3 Block Commands
 Res:

X3T9.2/92-107 Rev 1    Date: 8/29/92  Author: I. Dal Allan [9/15/92]
Desc: Project Proposal for SCSI-3 Stream Commands
 Res:

X3T9.2/92-108 Rev 1    Date: 8/29/92  Author: I. Dal Allan [9/15/92]
Desc: Project Proposal for SCSI-3 Graphic Commands
 Res:

X3T9.2/92-109 Rev 1    Date: 8/29/92  Author: I. Dal Allan [9/15/92]
Desc: Project Proposal for SCSI-3 Medium Changer Commands
 Res:

X3T9.2/92-110          Date: 4/13/92  Author: D. Smythe [5/14/92]
Desc: IDE (ATA) Document Changes
 Res:

X3T9.2/92-111 Rev 1    Date: 7/27/92  Author: Peter Dougherty [9/15/92]
Desc: Additional ASC/ASCQ Codes for Data Compression
 Res: Accepted for SCSI-3 at August 92 plenary
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X3T9.2/92-112          Date: 5/5/92  Author: Scott Smyers  [5/14/92]
Desc: Proposal for Alternate 68 Position P Connector
 Res:

X3T9.2/92-113          Date: 5/5/92  Author: John A. Gallant  [5/14/92]
Desc: April 28 SCSI-2 Queuing TIB Working Group Meeting Minutes
 Res:

X3T9.2/92-114          Date: 5/7/92  Author: Kurt Chan  [5/15/92]
Desc: Transceiver skew recommendations
 Res:

X3T9.2/92-115          Date: 5/7/92  Author: Kurt Chan  [5/15/92]
Desc: Cable length requirements
 Res:

X3T9.2/92-116 Rev 1    Date: 5/18/92  Author: Charles Monia  [7/15/92]
Desc: Pacetized SCSI System Models
 Res:

X3T9.2/92-117          Date: 5/18/92  Author: D. W. Spence  [7/15/92]
Desc: Fast SCSI Stubs Dimensions & Specifications Format
 Res:

X3T9.2/92-118          Date: 4/27/92  Author: Robert Herron  [5/15/92]
Desc: 3M Presentation on MDR Connector
 Res:

X3T9.2/92-119          Date: 5/14/92  Author: Thomas Newman  [7/15/92]
Desc: ATA Extensions Proposal -- ATA 68 Pin Connection
 Res:

X3T9.2/92-120          Date: 5/18/92  Author: John Geldman  [7/15/92]
Desc: Mapping the ATA Interface onto thd SFF 68-pin Connector
 Res:

X3T9.2/92-121          Date: 5/14/92  Author: Thomas Newman  [7/15/92]
Desc: ATA Command 0 (No Operation) Proposal
 Res:

X3T9.2/92-122          Date: 5/18/92  Author: D.W. Bill Spence  [7/15/92]
Desc: Proposal for Additional Annex for SPI Standard
 Res:

X3T9.2/92-123          Date: 5/14/92  Author: Kevin Gingerich  [7/15/92]
Desc: Proposed Change to SPI
 Res:

X3T9.2/92-124          Date: 5/15/92  Author: Steve Hunley  [7/15/92]
Desc: Proposed Change to SPI
 Res:

X3T9.2/92-125          Date: 5/14/92  Author: I. Dal Allan  [7/15/92]
Desc: Letter on Patents to Steve Cornaby
 Res:

X3T9.2/92-126          Date: 5/21/92  Author: L. Lamers  [7/15/92]
Desc: Minutes of the X3T9.2 May General Working Group
 Res:

X3T9.2/92-127          Date: 5/21/92  Author: Lamers/Spence  [7/15/92]
Desc: SPI Working Group Minutes for May 1992
 Res:

X3T9.2/92-128          Date: 5/27/92  Author: Rich Mizia  [7/15/92]
Desc: Raw Cable Impedance and Bend Radius Test Results
 Res:

X3T9.2/92-129          Date: 5/26/92  Author: R. Whiteman  [7/15/92]
Desc: P-Cable connector dimension & tolerance study
 Res:

X3T9.2/92-130 Rev 2    Date: 11/6/92  Author: Kyle Robison  [1/15/93]
Desc: Sychronization Status & Errors
 Res: accepted for SCSI-3

X3T9.2/92-131 Rev 1    Date: 8/13/92  Author: S. Smyers  [9/15/92]
Desc: A Common Command Unit Architecture
 Res:

X3T9.2/92-132          Date: 6/4/92  Author: Lynn Barra  [7/15/92]
Desc: Transmittal of Public Review Comment #2 (ATA)
 Res:

X3T9.2/92-133 Rev 4    Date: 11/16/92  Author: Scott Smyers  [1/15/93]
Desc: Disconnect control on initial connection
 Res:

X3T9.2/92-134 Rev 1    Date: 8/4/92  Author: Jeffrey Williams  [9/15/92]
Desc: Response to 92-111
 Res: Accepted for SCSI-3 at August '92 plenary

X3T9.2/92-135          Date: 7/20/92  Author: Ed Gardner  [9/15/92]
Desc: SCSI-3 Serial Bus Protocol (SBP)
 Res:

X3T9.2/92-136          Date: 6/19/92  Author: H. Waltersdorf & S. Roland
[7/15/92]
Desc: Internal Non-Shielded Connectors
 Res:
X3T9.2/92-137          Date: 5/19/92  Author: B. Ham  [7/15/92]
Desc: Hot Plugging Requirements for SPI
 Res:

X3T9.2/92-138 Rev 1    Date: 6/23/92  Author: B. Ham  [7/15/92]
Desc: Single SCSI cable for all forms of SCSI
 Res:

X3T9.2/92-139 Rev 1    Date: 8/11/92  Author: S. Cornaby  [9/15/92]
Desc: Appendix for SPI on Unitized Connector
 Res:
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X3T9.2/92-140          Date: 6/10/92  Author: Lynn Barra  [7/15/92]
Desc: Transmittal of Public Review Comment #3 (ATA)
 Res:

X3T9.2/92-141 Rev 5    Date: 10/10/92  Author: G. Penokie  [11/15/92]
Desc: SCSI-3 Queuing Model
 Res:

X3T9.2/92-142          Date: 6/23/92  Author: J. P. McGrath  [9/15/92]
Desc: ATA Public review comments
 Res:

X3T9.2/92-143          Date: 6/23/92  Author: J. P. McGrath  [9/15/92]
Desc: Capacitance on SCSI Signal Lines
 Res:

X3T9.2/92-144          Date: 6/25/92  Author: L. Lamers  [7/15/92]
Desc: Minutes of X3T9.2 Plenary Meeting #100
 Res:

X3T9.2/92-145          Date:   Author: John Scheible  [9/15/92]
Desc: SCSI mapping for SSA
 Res:

X3T9.2/92-146          Date: 7/15/92  Author: Lynn Barra  [9/15/92]
Desc: Public Review Comment #1 on SCSI-2
 Res:

X3T9.2/92-147          Date: 8/21/92  Author: Del Shoemaker  [9/15/92]
Desc: Response to SCSI-2 Public Review Comment #1
 Res:

X3T9.2/92-148 Rev 2    Date: 7/21/92  Author: D. Steele  [9/15/92]
Desc: Active Negation Driver Requirements for SPI
 Res:

X3T9.2/92-149 Rev 1    Date:   Author: John Geldman  [9/15/92]
Desc: Demand Mode DMA ATA
 Res:

X3T9.2/92-150 Rev 1    Date:   Author: Tom Debiec  [11/15/92]
Desc: Cable Document
 Res:

X3T9.2/92-151          Date: 7/17/92  Author: Mehran Raezani  [9/15/92]
Desc: Two new commands for ATA
 Res:

X3T9.2/92-152          Date: 7/20/92  Author: Mehran Ramezani  [9/15/92]
Desc: DMA Timing Changes In ATA
 Res:

X3T9.2/92-153          Date: 7/18/92  Author: Edward A. Gardner  [9/15/92]
Desc: Comments on Blind-pluggable Connector
 Res:

X3T9.2/92-154 Rev 1    Date: 10/15/92  Author: J. Gallant  [11/15/92]
Desc: Extensions to the Common Access Method (CAM-2)
 Res:

X3T9.2/92-155          Date: 7/21/92  Author: C. Mosley  [9/15/92]
Desc: Connector Requirements
 Res: Accepted for inclusion in SCSI-3 August 92.

X3T9.2/92-156          Date: 7/18/92  Author: Florin Oprescu  [9/15/92]
Desc: SCSI Termination Sensing Proposal
 Res:

X3T9.2/92-157 Rev 5    Date: 9/21/92  Author: Shashir Shah  [11/15/92]
Desc: LBA address for ATA
 Res:

X3T9.2/92-158          Date: 7/23/92  Author: L. Lamers  [9/15/92]
Desc: Minutes of July 1992 General Working Group
 Res:

X3T9.2/92-159          Date: 7/30/92  Author: D.W. Spence  [9/15/92]
Desc: SPI Working Group MInutes
 Res:

X3T9.2/92-160          Date:   Author: Dean Wallace  [11/15/92]
Desc: TI Constant Current Mode Terminator
 Res:

X3T9.2/92-161          Date:   Author: Florin Oprescu  [9/15/92]
Desc: Termination Sensing Proposal
 Res:

X3T9.2/92-162 Rev 1    Date: 7/31/92  Author: G. Houlder  [9/15/92]
Desc: New ASC/ASCQ for Power-on Reset
 Res:

X3T9.2/92-163          Date: 8/18/92  Author: Charles Monia  [9/15/92]
Desc: Domain Definitions and Linked Commands (SAM)
 Res:

X3T9.2/92-164 Rev 1    Date: 9/14/92  Author: J. Williams  [11/15/92]
Desc: Request for Addition of New Density Codes
 Res:

X3T9.2/92-165          Date: 8/18/92  Author: R. Gannon  [11/15/92]
Desc: Serial Cable Protypes
 Res:

X3T9.2/92-166          Date: 8/18/92  Author: L. Lamers  [9/15/92]
Desc: X3T9.2 Meeting #101 Minutes
 Res:

X3T9.2/92-167          Date: 8/18/92  Author: J. Lohmeyer  [9/15/92]
Desc: Proposed SPARC Policy on Conformance Testing
 Res:
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X3T9.2/92-168         Date: 8/17/92  Author: J. P. McGrath  [9/15/92]
Desc: ATA Download Microcode Command
 Res:

X3T9.2/92-169         Date: 8/18/92  Author: R. Bailly  [9/15/92]
Desc: Conformance Testing Presentation
 Res:

X3T9.2/92-170         Date: 8/15/92  Author: D. Allan  [9/15/92]
Desc: SFF pinouts for SPI annexes
 Res:

X3T9.2/92-171         Date: 8/18/92  Author: E. Gardner  []
Desc: Presentation on SBP at August Plenary
 Res:

X3T9.2/92-172         Date: 8/20/92  Author: L. Lamers  [9/15/92]
Desc: Letter to K. McMillan on Letter Ballot Proceedure
 Res:

X3T9.2/92-173         Date: 8/20/92  Author: L. Lamers  [9/15/92]
Desc: Letter to K. McMillan on E-mail use
 Res:

X3T9.2/92-174         Date: 8/20/92  Author: M. Freeman  [9/15/92]
Desc: Minutes of July 13, 1992 Grass Roots Meeting
 Res:

X3T9.2/92-175         Date: 8/26/92  Author: J. Lohmeyer  [9/15/92]
Desc: Letter Ballot
 Res:

X3T9.2/92-176         Date: 8/26/92  Author: J. Lohmeyer  [9/15/92]
Desc: Letter Ballot
 Res:

X3T9.2/92-177         Date: 8/26/92  Author: J. Lohmeyer  [9/15/92]
Desc: Letter Ballot
 Res:

X3T9.2/92-178         Date: 8/26/92  Author: J. Lohmeyer  [9/15/92]
Desc: Letter Ballot
 Res:

X3T9.2/92-179         Date: 8/26/92  Author: J. Lohmeyer  [9/15/92]
Desc: Letter Ballot
 Res:

X3T9.2/92-180         Date: 8/26/92  Author: J. Lohmeyer  [9/15/92]
Desc: Letter Ballot
 Res:

X3T9.2/92-181         Date: 8/27/92  Author: D.W. Spence  [9/15/92]
Desc: Terminator & Driver Characteristics
 Res:

X3T9.2/92-182 Rev 2   Date: 10/30/92  Author: R. Snively  [11/15/92]
Desc: SCSI-3 Fiber Channel Protocol
 Res:

X3T9.2/92-183         Date: 6/23/92  Author: J. W. McGrath  [9/15/92]
Desc: Current Sink for ATA drivers Operating at 3.3 volts
 Res:

X3T9.2/92-184         Date: 9/16/92  Author: G. Penokie  [11/15/92]
Desc: Codes, ASC, ASCQ, & Values Committed in SCSI-3
 Res:

X3T9.2/92-185         Date: 9/15/92  Author: L. Leach  [11/15/92]
Desc: Format Track Definition for ATA
 Res:

X3T9.2/92-186         Date: 12/8/92  Author: J. Lohmeyer  [11/15/92]
Desc: Response to Public Review Comment #1 on BSR X3.221, ATA
 Res:

X3T9.2/92-187         Date: 12/8/92  Author: J. Lohmeyer  [11/15/92]
Desc: Response to Public Review Comment #2 on BSR X3.221, ATA
 Res:

X3T9.2/92-188         Date: 12/8/92  Author: J. Lohmeyer  [11/15/92]
Desc: Response to Public Review Comment #3 on BSR X3.221, ATA
 Res:

X3T9.2/92-189         Date: 12/8/92  Author: J. Lohmeyer  [11/15/92]
Desc: Response to Unregistered Public Review Comment on BSR X3.221, ATA
 Res:

X3T9.2/92-190         Date: 12/8/92  Author: J. Lohmeyer  [11/15/92]
Desc: Response to Unregistered Public Review Comment on BSR X3.221, ATA
 Res:

X3T9.2/92-191         Date: 12/8/92  Author: J. Lohmeyer  [11/15/92]
Desc: Response to Unregistered Public Review Comment on BSR X3.221, ATA
 Res:

X3T9.2/92-192         Date: 9/22/92  Author: J. Lohmeyer  [11/15/92]
Desc: Jeopardy Letter for September 1992
 Res:

X3T9.2/92-193         Date: 9/25/92  Author: Lamers/Lohmeyer  [11/15/92]
Desc: Minutes of ATA September '92 Working Group Meeting
 Res:

X3T9.2/92-194         Date: 9/25/92  Author: Lamers/Lohmeyer  [11/15/92]
Desc: Minutes of X3T9.2 September '92 Working Group Meeting
 Res:

X3T9.2/92-195         Date: 10/9/92  Author: Dal Allan  [11/15/92]
Desc: Small Form Factor ATA Annex
 Res:
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X3T9.2/92-196        Date: 10/9/92  Author: Dal Allan  [11/15/92]
Desc: Small Form Factor SPI Annex
 Res:

X3T9.2/92-197        Date: 10/12/92  Author: Dennis Pak  [11/15/92]
Desc: IEEE P1285 Liaison Report
 Res:

X3T9.2/92-198        Date: 10/9/92  Author: John Lohmeyer  [11/15/92]
Desc: Proprosal for Funding X3T9.2 Technical Editors
 Res:

X3T9.2/92-199 Rev 4    Date: 12/8/92  Author: Gerald Marazas  [1/15/93]
Desc: SCSI-3 Serial Bus Protocol
 Res:

X3T9.2/92-200        Date: 10/15/92  Author: Lamers/Lohmeyer  [11/15/92]
Desc: Minutes of X3T9.2 Meeting #102
 Res:

X3T9.2/92-201        Date: 9/8/92  Author: Daniel Arnold  [11/15/92]
Desc: OASIS Update
 Res:

X3T9.2/92-202 Rev 1    Date: 10/12/92  Author: Charles Monia  [11/15/92]
Desc: SAM Addressing Proposal
 Res:

X3T9.2/92-203        Date: 10/15/92  Author: Lamers/Spence  [11/15/92]
Desc: SPI Working Group Minutes for October 1992
 Res:

X3T9.2/92-204 Rev 2    Date: 12/7/92  Author: Lamers/Freeman  [1/15/93]
Desc: Minutes of Grass Roots Meeting #2 -- 10/1/92
 Res:

X3T9.2/92-205        Date: 10/19/92  Author: l. lamers  [11/15/92]
Desc: ATA letter ballot on pr responses
 Res:

X3T9.2/92-206        Date: 10/19/92  Author: L. Lamers  [11/15/92]
Desc: CAM-2 letter ballot
 Res:

X3T9.2/92-207        Date: 10/29/92  Author: L. Lamers  [11/15/92]
Desc: Letter on International Participation Fee
 Res:

X3T9.2/92-208        Date: 10/22/92  Author: D. Arnold  [11/15/92]
Desc: Call for X3T9.2 Chairmen
 Res:

X3T9.2/92-209        Date: 10/22/92  Author: D. Arnold  [11/15/92]
Desc: Call for X3T9.2 Vice-Chariman
 Res:

X3T9.2/92-210        Date: 11/5/92  Author: Tom Debiec  [11/15/92]
Desc: Proposed Cable Preperation Procedure
 Res:

X3T9.2/92-211 Rev 1    Date: 12/17/92  Author: J. Lohmeyer  [1/15/93]
Desc: Jeopardy Letter for Meeting Attendance
 Res:

X3T9.2/92-212        Date: 9/28/92  Author: Junzo Neriishi  [11/15/92]
Desc: Request for Interpretation - SCSI-2 Synch Transfers
 Res:

X3T9.2/92-213        Date: 10/29/92  Author: J. Scheible  [11/15/92]
Desc: Project Proposal for Serial Storage Architecture - Physical (SSA-PH)
 Res:

X3T9.2/92-214        Date: 11/10/92  Author: R. DeKonig  [1/15/93]
Desc: Queue Full Handling
 Res:

X3T9.2/92-215        Date: 10/10/92  Author: B. Ham  [1/15/93]
Desc: 50 line to 68 line connections for SPI
 Res:

X3T9.2/92-216        Date: 11/10/92  Author: B. Ham  [1/15/93]
Desc: Where does SPI really fit in SCSI
 Res:

X3T9.2/92-217        Date: 11/10/92  Author: G. Milligan  [1/15/93]
Desc: SCSI Caching Large Segment Control
 Res:

X3T9.2/92-218 Rev 1    Date: 11/10/92  Author: G. Milligan  [1/15/93]
Desc: Global Logging Target Save Disable Bit
 Res: recommended for inclusion in SCSI-3

X3T9.2/92-219 Rev 1    Date: 12/3/92  Author: T. Asami  [1/15/93]
Desc: Proposal for Hot Plug Leakage Current Specification
 Res:

X3T9.2/92-220        Date: 11/6/92  Author: J. Goldie  [1/15/93]
Desc: Differential Test Ciruit Modifications
 Res:

X3T9.2/92-221        Date:    Author: J. Geldman  [1/15/93]
Desc: Resolving the ATA Multi-word DMA Timing
 Res:

X3T9.2/92-222        Date: 11/13/92  Author: Lamers/Allan  [1/15/93]
Desc: Minutes of ATA November '92 Working Group Meeting
 Res:

X3T9.2/92-223        Date: 11/13/92  Author: Lamers/Penokie  [1/15/93]
Desc: Minutes of RAID November '92 Study Group Meeting
 Res:
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X3T9.2/92-224          Date: 11/13/92  Author: Lamers/Lohmeyer  [1/15/93]
Desc: Minutes of November '92 General Working Group Meeting
 Res:

X3T9.2/92-225          Date: 11/30/92  Author: R. Weber  [1/15/93]
Desc: SCSI-3 Primary Commands - Working Document Outline
 Res:

X3T9.2/92-226          Date: 11/30/92  Author: R. Weber  [1/15/93]
Desc: SCSI-3 Primary Commands - Approved Additions
 Res:

X3T9.2/92-227 Rev 2    Date: 12/7/92  Author: C. Monia  [1/15/93]
Desc: Revised SAM Model
 Res:

X3T9.2/92-228          Date: 12/8/92  Author: E. Gardner  [1/15/93]
Desc: SCSI-3 SBP Tap Fetch Ordering Example
 Res:

X3T9.2/92-229          Date: 12/10/92  Author: Lamers/Lohmeyer  [1/15/93]
Desc: Minutes of X3T9.2 Plenary Meeting #103
 Res:

X3T9.2/92-230          Date: 12/7/92  Author: Lamers/Penokie  [1/15/93]
Desc: Minutes of X3T9.2 RAID Study Group Meeting #2
 Res:

X3T9.2/92-231          Date: 12/5/92  Author: G. Stephens  [1/15/93]
Desc: SCSI-2 Options Selection Document
 Res:

X3T9.2/92-232          Date: 12/7/92  Author: D. Pak  [1/15/93]
Desc: IEEE P1285 Liason Report
 Res:

X3T9.2/92-233          Date:    Author: J. Scheible  [1/15/93]
Desc: SSA Liason Report
 Res:

X3T9.2/92-234          Date: 12/8/92  Author: D.W. Spence  []
Desc: Test Procedure - Maximum Signal Capacitance
 Res:

X3T9.2/92-235          Date: 12/8/92  Author: L. Lamers  [1/15/93]
Desc: Clarification of Synchronous Handshake
 Res:

X3T9.2/92-236          Date: 12/9/92  Author: D.W. Spence  [1/15/93]
Desc: Test Procedure for Maximum Signal Capacitance
 Res:

X3T9.2/92-237          Date: 12/9/92  Author: D.W. Spence  [1/15/93]
Desc: Proposed New Wording for Terminator Power
 Res:

X3T9.2/92-238          Date: 12/10/92  Author: B. Dallas  [1/15/93]
Desc: CAM-2 Study Group Report
 Res:

X3T9.2/92-239          Date: 12/3/92  Author: Gerald B. Rosenberg  [1/15/93]
Desc: PraireTek Patents/ANSI Patent Policy
 Res:

X3T9.2/92-240          Date: 11/11/92  Author: Chuck Duquette  [1/15/93]
Desc: Letter to CBEMA on US Design SCSI-2 Comment
 Res:

X3T9.2/92-241          Date: 12/17/92  Author: J. Lohmeyer  [1/15/93]
Desc: Jeopardy Letter for Letter Ballots
 Res:

X3T9.2/92-242          Date: 12/17/92  Author: J. Lohmeyer  [1/15/93]
Desc: Letter to Toshiba on Request for Interpretation
 Res:

X3T9.2/92-243          Date: 12/30/92  Author: J. Lohmeyer  [1/15/93]
Desc: Letter Ballot for ATA second public review
 Res:

X3T9.2/92-244          Date: 12/16/92  Author: J. Lohmeyer  [1/15/93]
Desc: Letter to Del on SCSI-3 Project Proposals
 Res:

X3T9.2/92-245          Date: 12/21/92  Author: R. Jesup  [1/15/93]
Desc: Comments for the CAM group of the SCSI X3T9
 Res:

X3T9.2/92-246          Date: 1/3/93  Author: I. Dal Allan  [1/15/93]
Desc: AT Attachment Interface for Disk Drives
 Res:
```