

Approved Agenda
Joint X3T9.2 #71 and ~~X3T9.3 #63~~ Meeting
August 17-18, 1987
Colorado Springs, Colorado

<Joint Meeting with X3T9.3>

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Approval of Minutes - June Meeting, Vancouver (X3T9.2/87-90)
5. Liaison Reports
 - 5.1 IEEE P996
 - 5.2 IEEE P1134
 - 5.3 ISO
6. Joint Working Group and/or Project Status Reports
 - 6.1 High Speed Working Group
 - 6.2 ESDI
 - 6.3 Flexible Disk
 - 6.4 SHD

<Separate Meeting>

7. Document Distribution
8. Review of Old Action Items
9. Separate Working Group and/or Project Status Reports
 - 9.1 SCSI General Working Group (X3T9.2/87-107)
 - 9.2 SCSI Scanners
 - 9.3 SCSI Command Queuing
 - 9.4 SCSI Medium Changers
10. Old Business
 - 10.1 Asynchronous Event Notification
 - 10.2 SCSI-2 EIDOT Assignments
 - 10.3 Wide SCSI [Odd byte, 16-bit connector option (87-118)]
 - 10.4 Inquiry Serial Number Justification (left vs right)
 - 10.5 Printer Proposal
11. New Business
 - 11.1 Wide SCSI Shielded Connector Selection
 - 11.2 High Density Connector for SCSI-2
 - 11.2.1 IBM Presentation
 - 11.2.2 AMP Presentation
 - 11.2.3 Other Connector Presentations
 - 11.3 Review of SCSI-2 Draft Document (X3T9.2/86-109 Rev 2)
 - 11.4 Review of new documents
 - 11.5 Miscellaneous issues identified on SCSI Bulletin Board
 - 11.6 Should LUN field be dropped from CDBs? (X3T9.2/87-110)
 - 11.7 Agenda for Wichita Working Group
 - 11.8 1988 Working Group Schedule
 - 11.9 SCSI-3 Project Proposal (SD-3)
12. Review of New Action Items
13. Meeting Schedule
 - 13.1 General Working Groups
14. Adjournment

Draft Minutes
Joint X3T9.2 #71 and ~~X3T9.3 #63~~ Meeting
August 17-18, 1987
Colorado Springs, Colorado

1. Opening Remarks

John Lohmeyer, the Chairman, called the meeting to order at 9:00 am, Monday August 17, 1987. Each of the attendees introduced themselves and stated their company affiliation. The attendance list was circulated with the standard instructions on membership.

John Lohmeyer announced the results of the last X3T9 meeting on the motion presented for merging X3T9.2 and X3T9.3. At X3T9, the motion to merge the task groups failed. Another motion to reassign some of the responsibilities of X3T9.2 and X3T9.3 passed. The ESDI and Flexible Disk projects are to be transferred from X3T9.3 to X3T9.2. The X3T9 action does not preclude the present format of having a joint session with X3T9.3. However, minutes and document distribution will be handled separately.

Copies of SCSI-2 Rev 2 (X3T9.2/86-109 Rev 2) were distributed to attendees at the meeting. John Lohmeyer agreed to mail copies to those principals and alternates not in attendance.

2. Approval of Agenda

The agenda from the mailing was revised slightly and copies of the revised agenda were available at the meeting.

Items 10.4 Inquiry Serial Number Justification, 10.5 Printer Proposal, and 11.2.3 Other Connector Manufacturers Presentations were added to the agenda. The agenda was approved with these changes.

3. Attendance and Membership

Membership requirements were discussed.

It was noted that the 1988 service fees are going up from \$175 to \$200 for a principal and one alternate and from \$100 to \$150 for observers. In addition, X3T9 is planning an equitable document distribution system that would result in a separate billing for documentation mailings.

New members at the meeting:

Ciprico Inc: Bill Winterstein; Alternate, Tom Wicklund
Aspen Peripherals: Kim B. Le
Connors Peripherals: Tom A. Fiers

The Chairman stated the attendance rules. Due to the Chairman's busy schedule, no letters concerning non-attendance were sent since the last meeting, so no members were "terminated" at the meeting.

Enclosure (1) is the list of attendees for the meeting. Enclosure (2) is the changes to the X3T9.2 membership list and enclosure (3) is the current X3T9.2 membership list.

4. Approval of Minutes

The minutes were approved with minor corrections.

5. Liaison Reports

- 5.1 IEEE P996 - no report. This report will be dropped from future agendas.
- 5.2 IEEE P1134 - no report. This item will also be dropped.
- 5.1 ISO - Gary Robinson reported. The next ISO TC97/SC13 meeting is scheduled for September 21-25 in San Jose. Representation is limited to those selected by X3T9.

6. Joint Working Group and/or Project Status Reports

6.1 High speed Working Group

Don Tolmie reported on the High Speed Channel project study group. The goals and assumptions were outlined. A copy of the presentation will be included in the next mailing. There are 3 proposals under consideration. The group is both working from the top down and the bottom up. Several companies prototyping the Los Alamos proposal.

Jim Schuessler also gave a report on the higher speed study for both SCSI and IPI using voltage-mode differential drivers. Current results indicate that SCSI can achieve 10M transfers/sec and IPI can achieve 12.5M transfers/sec.

6.2 ESDI

Dal Allan reported. Several people objected to the double polarization notches in the connector drawings. Harvey Walteradorf from Thomas and Betts suggested that revised SCSI connector drawings with a single polarization notch would be better for the ESDI since there are more vendors with this style connector. John Lohmeyer volunteered to provide revised drawings based on the SCSI nonshielded connector drawings.

Other proposed changes are pointed out in Dal Allan's 87-141 document. This document reflects comments from Tom Wicklund from Ciprico.

Gene Milligan has also submitted a list of proposed changes in 87-140. Gene presented a brief overview of this document.

It was decided that there are sufficient proposed changes to schedule an ESDI Working Group meeting. The tentative date is September 28-29 in San Jose, CA. A mailing to the ESDI working group members will include further information on this meeting. Dal Allan is arranging the meeting.

6.3 Flexible Disk

Gary Robinson reported. The document (X3.80R-198X) has been updated and is out for public review, which closes in November. Copies available from Global Engineering Documents (800/854-7179 or 714/540-9870) in Santa Ana, CA.

6.4 SMD

Gene Milligan reported. The revised SMD standard has been published and is available for purchase from ANSI (X3.91-1987).

7. Document Distribution

The following documents were distributed at the meeting:

Document	Doc Date	Author	Description of Document
X3T9.2/87-52 Rev 1	8/13/87	R. Snively	Asynchronous event notification
X3T9.2/87-98 Rev 1	8/17/87	D. Davies	Proposed Buffered Mode for Deferred Error Handling
X3T9.2/87-103 Rev 1	8/13/87	J. Lohmeyer	NCR Printer Proposal for SCSI-2
X3T9.2/87-116 Rev 1	7/15/87	D. Anderson	Passing Media Initialization Pattern during FORMAT UNIT command
X3T9.2/87-126	8/9/87	P. Nitza	SEND/RECEIVE DIAGNOSTIC commands with Translate Page
X3T9.2/87-127	8/8/87	P. Nitza	INQUIRY Command with VPD information
X3T9.2/87-128	8/6/87	P. Nitza	SEARCH Command Modifications
X3T9.2/87-129	7/27/87	P. Nitza	MODE SELECT/SENSE Verify Error Recovery Page
X3T9.2/87-130	8/10/87	P. Nitza	Target Implemented Options in INQUIRY and MODE SELECT/SENSE
X3T9.2/87-131	8/12/87	P. Boulay	MODE SELECT implementation problems using COPY
X3T9.2/87-133	8/14/87	G. Marazas	Proposal for a high-density shielded SCSI-2 connector
X3T9.2/87-136	8/13/87	R. Snively	Study of IPI-SCSI queuing functions
X3T9.2/87-137	8/12/87	R. Snively	Programmable Control of SCSI operating mode
X3T9.2/87-138	8/17/87	J. Schuessler	Fast SCSI
X3T9.2/87-139	8/14/87	D. Appleyard	Additions to READ POSITION command for Sequential Access Devices
X3T9.2/87-140	8/13/87	G. Milligan	Review of ESDI X3T9.3/87-005 Rev 1.3
X3T9.2/87-141	8/12/87	D. Allan	Comments on ESDI Document X3T9.3/87-005 Rev 1.3
X3T9.2/87-143	8/17/87	E. Reynolds	AMP AMPLIMATE .050 Series Connectors
X3T9.2/87-144	8/14/87	D. Appleyard	Additions to the Automatic Medium Changer Command Set
X3T9.2/87-145	8/17/87	E. Hunt	Density Code for DAT Tape

Enclosure (4) is the current 1987 X3T9.2 document register.

8. Review of Action Items
 - 8.1 Ed Calkins will check on IBM position concerning availability of the IBM current-mode differential drivers and receivers. Carry over.
 - 8.2 The Queuing Ad Hoc will review the IPI model on queuing. Complete (87-136).
 - 8.3 Bob Snively will revise X3T9.2/87-52 to include the comments from the June plenary meeting. Complete.
 - 8.4 Bob Snively will prepare a proposal on SCSI version switching. Complete (87-137).
 - 8.5 Larry Lamers and the section editors will revise the SCSI-2 draft document to present the commands in alphabetical order. Complete.
 - 8.6 Bill Spence will revise the EOT definition in the tape glossary with the assistance of Gary Stephens and Jim Semenak. Carry over.
 - 8.7 Gene Milligan will prepare a draft SD-3 for SCSI-3. Carry over.
 - 8.8 John Lohmeyer will review the unit vs extent reservation issue that he identified to determine whether superseding reservations adequately covers this situation. Complete - Rev 2 includes clarified wording.

9. Separate Working Group and/or Project Status Reports

9.1 SCSI General Working Group (X3T9.2/87-107)

The General Working Group minutes were reviewed and the following highlights discussed:

- (1) Reservation Queuing has been removed from the SCSI-2 Rev 2 draft document. If there are any objections please inform the committee.
- (2) The physical level Automatic Media Changers proposal has been included in the SCSI-2 Rev 2 draft document. If there are any objections or comments please inform the committee.

Bill Spence has determined that he cannot change the wording to deal with powering terminators locally without significantly altering the intent of the document (Reference item 30 of 87-107). Possibly, an implementors note could be added to describe powering terminators locally.

9.2 SCSI Scanners

The scanner group has not met recently. Jim Murphy has resigned his position as editor of this section as he has left Dest to return to school. The new editor of this section is Ben Driscoll of Datacopy Corp.

9.3 Command Queuing

Jim McGrath gave a brief report. He asked for feedback from the systems people on data integrity. Rev 3 of the queuing proposal (X3T9.2/87-59) is being worked on by the queuing committee and is available on the SCSI BBS for general members.

Gary Stephens asked, "How do you recover from an error when commands are queued?"

The proposal and Gary's question will be discussed at the Wichita working group meeting.

9.4 SCSI Medium Changers

A section on Medium Changers has been included in Rev 2.

10. Old Business

10.1 Asynchronous Event Notification (AEN)

A new revision of document X3T9.2/87-52 (Rev 1) was available from Bob Snively which documents the changes discussed at the Irvine working group.

Gene Milligan objected to the fact that the INQUIRY command does not indicate if a device supports AEN. If the INQUIRY command responds as a processor device it may or may not support the AEN option. However, a device attempting to send AEN data to that processor device may receive a CHECK CONDITION even though it was a processor device. Gene suggested that in addition to processor device types another qualifier should be used to indicate if a device supports the AEN option.

Further discussion on this topic is scheduled for the next working group meeting.

10.2 SCSI-2 Editor Assignments

John Lohmeyer reviewed the current list of editors for the SCSI-2 draft document. Peter Dougherty of UNISYS will take over sections 1 thru 6 from Ralph Shultz/Larry Lamers. Ben Driscoll of Datacopy Corp is the new editor of the scanner section.

10.3 Wide SCSI [Odd byte, 16-bit connector option (87-118)]

Discussion on this item was deferred to the Wichita working group meeting.

10.4 INQUIRY Serial Number Justification (left vs right)

The committee discussed why the Serial Number field in the INQUIRY command was right justified when the other ASCII fields are left justified. The conclusion of the discussion was that it is more convenient to treat this field as a computational field rather than as a text field. In order to help those who determine whether a

field is supported by looking only at the left-most character, this field is to be left-filled with ASCII zeros (30h).

Bill Spence moved and Jim Semenak seconded that the INQUIRY command Serial Number Field be right justified with ASCII zero (30h) fill. The motion was carried: 20 YES, 4 NO.

10.5 Printer Proposal

Terry Johnson and John Lohmeyer reviewed the printer proposal submitted by John Lohmeyer. Some discussion was held on the concept of downloadable fonts and the selection of those fonts. This proposal is oriented toward a bridge level product (i.e., SCSI to other device type interfaces), not an embedded product.

Further discussion will be held at the Wichita working group meeting.

11. New Business

11.1 Wide SCSI Shielded Connector Selection AND

11.2 High-Density Connectors for SCSI-2

A special connector working group meeting will be held on Tuesday morning of the Wichita working group meeting to sort out the connector issues. New connector types (ribbon vs pin and socket) and the shielded connector selection for wide SCSI will be discussed.

11.2.1 AMP Presentation

Ed Reynolds presented a .050" by 0.100" centerline "D" style pin and socket type connector. Both shielded and unshielded models available in both vertical and right angle formats. The shielded connector has a mechanical latch/release mechanism. This type of connector has been on the market for about 4 years. See document X3T9.2/87-143. There are no patents on the mating portions of the connector and there are multiple sources of supply.

11.2.2 IBM presentation

Gerald Marazas presented an IBM PS/2 card with a SCSI-1 standard shielded connector (Alternative 2) and noted that the card did not fit in the system due to the physical size of the connector. He proposed a new alternative connector as follows (see document X3T9.2/87-133 for details):

- (1) Miniature ribbon type connector
- (2) Pin spacing reduced from 85 mils to 50 mils
- (3) 60-pin connector with the first 50 pins identical to SCSI-1 and the remaining 10 pins would be vendor unique.

The committee was largely against the 10 vendor unique pins since this would introduce incompatibility between devices

from different manufacturers. Gerry plans to resubmit the proposal at the Wichita working group, separating the controversial portion from the non-controversial portion.

11.2.3 Other Connector Presentations

Mr. Fernando Ramirez of Burndy passed around samples of their miniature ribbon style connectors. Burndy manufactures both pin-and-socket and ribbon-type connectors.

Fujitsu Components has a similar type of connector (pin and socket) as presented by AMP.

Mr. Robert Herron of 3M passed around samples of their miniature ribbon style high-density connector. (The Burndy and 3M connectors are similar, but not compatible.)

Steve Goldman asked whether or not the various connectors can be used in a daisy chain environment. Several manufacturers commented that the current high-density connectors do not have that capability but it is being investigated.

There was a question on the wire sizes that would work with the high-density connectors. AMP commented that the current connectors work well with 28 AWG wire, however, larger wire sizes may have a problem with the outside diameter of the jacket and strain relief.

Some thoughts were presented to define a new connector which supported 16-bit SCSI in a single connector/cable.

A special connector working group meeting will be held on Tuesday morning of the Wichita working group meeting to sort out the connector issues. New connector types (ribbon vs pin and socket) and the shielded connector selection for wide SCSI will be discussed.

The 50 vs 60 pin issue and a single cable for 16-bit SCSI was deferred to Tuesday afternoon at the Wichita working group meeting.

11.3 Review of SCSI-2 Draft Document (X3T9.2/86-109 Rev 2)

The SCSI-2 Rev 2 draft document was briefly introduced to the committee with highlights of the major changes.

The documented Additional Sense codes in section 8 and 9 have been keyed to Sense Keys. Several people objected to this method since the Minneapolis working group had decided that the additional sense codes are orthogonal to the Sense Keys.

There was an editorial problem with the 12-byte commands in section 15. The transfer length should be aligned on a word boundary and will be corrected in future revisions.

Several problems were pointed out in the soft reset section. Jeff Stai has accepted an action item to correct these problems.

The question of whether or not an initiator can send multiple groups of messages during a single MESSAGE OUT phase was raised. After some debate the committee concluded that this is not possible but not clearly stated in the document. Paul Nitza accepted an action item to clarify the wording in section 5.

11.4 Review of new documents

The following new documents were reviewed briefly and will be covered in more detail at the next working group meeting:

X3T9.2/86-109 Rev 2, SCSI-2 Rev 2 (Covered in item 11.3)
 X3T9.2/87-132, Comments on ESDI Connectors (Covered in item 6.2)
 X3T9.2/87-133, IBM Connector Proposal (Covered in item 11.2.2)
 X3T9.2/87-136, Study of IPI-SCSI Queuing (Covered in item 9.3)
 X3T9.2/87-52 Rev 1, Asynchronous Event Notification
 X3T9.2/87-98 Rev 1, Proposed Buffered Mode for Deferred Errors
 X3T9.2/87-103 Rev 1, Printer Command Set Proposal
 X3T9.2/87-116 Rev 1, Format Unit Media Initialization Pattern
 X3T9.2/87-126, Send/Receive Diagnostic Command with pages
 X3T9.2/87-127, Inquiry Command with VPD Information
 X3T9.2/87-128, Search Command Modifications
 X3T9.2/87-129, Mode Select/Sense Verify Error Recovery Parameters Page
 X3T9.2/87-130, Target Implemented Options
 X3T9.2/87-131, Mode Select problems with the Copy command
 X3T9.2/87-137, Programmable Control of SCSI Operating Mode
 X3T9.2/87-138, Fast SCSI (see below)
 X3T9.2/87-139, Additions to Read Position command for chapter 7
 X3T9.2/87-144, Additions to Automatic Medium Changer Commands
 X3T9.2/87-145, Sequential Access Density Code for DAT

Fast SCSI (87-138) - The question of cable types and specifications came up. Also we need to make a decision on the maximum cable lengths (25m or 50m).

Dave McIntyre of HP suggested that during synchronous transfer rate negotiation, the transfer period should actually reflect the maximum rate at which the device is guaranteed to receive data without error, not the rate at which it intends to transfer data (which may be lower).

11.5 Miscellaneous issues identified on the SCSI BBS

John Lohmeyer passed around a directory listing of the files available on the SCSI Bulletin Board System (316-688-8700).

11.6 Should LUN field be dropped from the CDBs? (X3T9.2/87-110)

Since SCSI-2 requires an IDENTIFY Message, the LUN field in the CDB is longer required. Should the LUN field in the CDB be changed to reserved for all future groups of commands? The committee decided for backwards compatibility reasons that the LUN should remain defined in all new CDB groups. However, the committee would like to reclaim this field for future versions of this standard. Section 6.2.2 will be modified to state the future intentions of the committee concerning the LUN field.

11.7 Draft Agenda for the Wichita Working Group

The following topics have been identified for discussion at the Wichita Working Group:

1. Connector issues
2. Command Queuing
3. SCSI Medium Changers (X3T9.2/87-144)
4. Async Event Notification (X3T9.2/87-52 Rev 1)
5. Deferred Error Handling (X3T9.2/87-98 Rev 1)
6. Printer Command Set Proposal (X3T9.2/87-103 Rev 1)
7. Send/Receive Diagnostic Cmd with the Direct Access Device Translate Page (X3T9.2/87-126)
8. Inquiry Command with VPD Information (X3T9.2/87-127)
9. Search Command Modifications (X3T9.2/87-128)
10. Mode Select/Sense Verify Error Recovery Parameters Page (X3T9.2/87-129)
11. SCSI-2 Target Implemented Options (X3T9.2/87-130)
12. Mode Select Implementations to support Copy
13. Fast SCSI (X3T9.2/87-138)
14. Additions to Read Position Command (X3T9.2/87-139)
15. Additions to Automatic Medium Changer Command Set (X3T9.2/87-144)
16. Does the Target Save Mode Select Parameters on a Per Initiator Basis? (X3T9.2/87-131)
17. Density Code for DAT Tape (X3T9.2/87-145)
18. Additional Sense Codes, orthogonal to Sense Keys?

The following times have been allotted for specific areas of discussion during the working group:

Mon	9 to 11 -	Sequential Access Device Specific Topic
	11 to 12 -	Printer Command Set Proposal
	1 to 6 -	General Issues
Tues	9 to 12 -	General Issues continued
	1 to 6 -	Connector/Additional pins Issues
Wed	9 to 12 -	Optical Issues (sections 12, 13 and 15)
	1 to 6 -	Open Session

11.8 SCSI-3 Project Proposal (SD-3)

This item was deferred -- Gene Milligan is still working on the draft project proposal.

12. Review of New Action Items

- 12.1 John Lohmeyer will prepare drawings for the ESDI connectors.
- 12.2 Bill Spence will revise the EOT definitions in the tape glossary with the assistance of Gary Stephens and Jim Semenak.
- 12.3 Gene Milligan will prepare a draft SD-3 for SCSI-3.
- 12.4 Jim McGrath will draft a proposal that ensures data integrity at the target level when using command queuing.
- 12.5 Dave McIntyre will draft a proposal which better defines what synchronous negotiation means (rate of transfer or rate of received data).
- 12.6 Paul Nitza will draft a note or edit section 6.2.2 Logical Unit Number to add wording to the future direction of the committee concerning this field.
- 12.7 Jim Schuessler will prepare a proposal on Fast SCSI cable specification.
- 12.8 Jeff Stai will reword section 5.2.2.2 number 9 and 10 to close several holes in soft reset.
- 12.9 Paul Nitza will reword section 5 to clarify that the initiator cannot send multiple groups of messages during a single MESSAGE OUT phase.

13. Meeting Schedule

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The next meeting of X3T9.2 will be October 17-18, 1987 at the Ramada Renaissance Hotel in Saratoga Springs, NY (518) 584-4000. Please mention the "X3T9 Accredited Standards Committee" meeting when making reservations to receive the special room rate of \$91.00 for single occupancy and \$102.00 for double occupancy.

The plenary meeting schedule for 1987 and 1988 is:

December 7-8, 1987	San Diego, CA
February 22-23, 1988	Phoenix, AZ
April 25-26, 1988	Yampa Bay, FL area *
June 20-21, 1988	San Francisco, CA *
August 15-16, 1988	Denver, CO
October 17-18, 1988	Boston, MA
December 5-6, 1988	San Diego, CA

(* Chairman's note: The April and June 1988 meeting locations were changed at the subsequent X3T9 meeting due to a lack of hosts for New Orleans and Vancouver/Seattle.)

Bob Snively of Adaptec will make the next X3T9.2 mailing. The roster of future mailing volunteers is as follows:

Name	Company	Date
Dave McIntyre	HP	Oct '87
John Milledge	Apple	Dec '87
John Klonick/	Maxtor	Feb '88
Skip Jones		
John Lohmeyer	NCR	Apr '88

13.1 General Working Groups

Working Group and Ad hoc meetings are scheduled for:

General SCSI-2 Working Group meeting
August 31 - September 2, 1987
Hilton Inn East (316) 686-7131
549 S. Rock Road
Wichita, KS 67207
Reservations under:
"SCSI"

General SCSI-2 Working Group meeting
October 26-28, 1987
Orlando, FL area

General SCSI-2 Working Group meeting
January 6-8, 1988
Location and host to be determined

14. Adjournment

The meeting was adjourned at approximately 5:00 PM on Tuesday afternoon.

Meeting Attendees - Enclosure (1)

Name	Status	Organization
Mr. Robert C. Herron	A	3M Company
Mr. Robert R. Williamsen	A	Adaptec, Inc.
Mr. Jochen Polster	O	Advanced Micro Devices
Mr. Charles Brill	P	AMP, Inc.
Mr. Edward Marsh	O	AMP, Inc.
Mr. C. Edward Reynolds	O	AMP, Inc.
Mr. Louis C. Domszy	P	Archive Corp.
Mr. Elm B. Le	P	Aspen Peripherals
Mr. James J. Semanak	P	AT&T Information Systems
Mr. David Barnum	O	Burndy Corp.
Mr. Fernando Ramirez	V	Burndy Corp.
Mr. Gene Milligan	P	CDC/MPI
Mr. Dan Davies	P	Cipher Data Products, Inc.
Mr. Bill Winterstein	P	Ciprico Inc.
Mr. Peter Johansson	P	Congruent Software, Inc.
Mr. Thomas A. Fiers	P	Connor Peripherals, Inc.
Mr. Steve Kohalmi	O	Data General Corp.
Mr. Ben Driscoll	A	Datacopy Corp.
Mr. Daniel Bielke	V	Datapoint Corp.
Mr. Gary S. Robinson	P	Digital Equipment Corp.
Mr. Del Shoemaker	L	Digital Equipment Corp.
Mr. Curt Ridgeway	A	Distributed Logic Corp.
Mr. Steve Goldman	P	DPT
Mr. Arnold J. Roccati	P	EG&G WASC, Inc.
Mr. Paul Hitz	P	Emulex Corp.
Ms. Anita Manciet	N	Emulex Corp.
Mr. E. Hal Allan	P	ENDL
Mr. Michael Rudy	O	FileNet Corp.
Mr. Robert Liu	P	Fujitsu America, Inc.
Mr. Bob Thornton	O	Fujitsu Components of America
Mr. Dave McIntyre	A	Hewlett Packard Co.
Mr. Fred Pramann	O	Hewlett Packard Co.
Mr. Bob Pentecost	O	Hewlett Packard Co.
Mr. Pat Walker	O	Hewlett Packard Co.
Dr. Sam Karunanithi	P	HMSI, Inc.
Mr. Kris Kowal	O	Honeywell Bull, Inc.
Mr. Greg Floryance	P	IBM Corp.
Mr. E. W. Calkins	A	IBM Corp.
Mr. Gerald Marazas	A	IBM Corp.
Mr. Gary R. Stephens	A	IBM Corp.
Mr. Tony Salthouse	P	ICL
Mr. Randy Kerns	O	Intellistor
Mr. Orrin Char	A	Intergraph Corp.
Mr. Steve Kappes	P	Interphase Corp.
Mr. Stephen Cornaby	P	Iomega Corp.
Mr. Alan Fbright	P	Laserdrive
Mr. William Homans	P	LMSI-CPI
Mr. Paul Boulay	O	LMSI-OSI
Mr. Dan Banerje	A	Maxtor Corp.
Mr. John Hackmann	O	McDonnell Douglas

Meeting Attendees - Enclosure (1)

Name	Status	Organization
Mr. Bob Masterson	P	Methode Electronics, Inc.
Mr. Paul Wassenberg	P	Micropolis Corp.
Mr. Richard Hodgson	N	Micropolis Corp.
Mr. John Masiewkz	V	Micropolis Corp.
Mr. Thomas Gettys	A	Miniscribe Corp.
Mr. Daniel E. Moczarny	P	Mitsubishi Electronics Amer
Mr. Jeff Slaton	V	Motorola Semiconductor
Mr. James Schuessler	P	National Semiconductor
Mr. Frank Krulc	P	NCL America
Mr. John Lohmeyer	P	NCR Corp.
Mr. Fred F. Meadows	A	NCR Corp.
Mr. Harry Mason	O	NCR Corp.
Mr. Terry Johnson	S	NCR Corp.
Mr. Bruce Anderson	P	NEC I.S.
Mr. David Filpus	P	Northern Telecom, Inc.
Mr. Charles Yang	P	Panasonic Industrial Co. - MSD
Mr. Kiran Shah	A	Panasonic Industrial Co. - MSD
Mr. Robert Metz	O	PrairieTek Corp.
Mr. James McGrath	P	Quantum Corp.
Mr. Tony Lo	A	Quantum Corp.
Mr. Mike Eneboe	A	Scientific Micro Systems
Mr. David A. Hatch	O	Stewart Connector Systems
Mr. Dennis Appleyard	P	Storage Technology Corp.
Mr. Joseph T. Cusack	3	Testmaster Inc.
Mr. Bill Wheeler	3	Testmaster Inc.
Mr. D. W. Spence	A	Texas Instruments
Mr. Harvey Waltersdorf	P	Thomas & Betts
Ms. Patricia H. Leary	A	Thomas & Betts
Mr. Peter Dougherty	P	UNISYS
Mr. Jeff Stal	P	Western Digital

Sep 4, 1987 - X3T9.2 Membership Changes - Enclosure (2)

Mr. Robert C. Herron Replaces Terry Smudz
 JM Company
 Bldg. 502, POB 2963 A (512) 834-6807
 11209 Metric Blvd.
 Austin, TX 78769-2963

Mr. Terry Smudz Replaced by R. Herron
 JM Company
 Bldg. 502, POB 2963 A (512) 834-6701
 11209 Metric Blvd.
 Austin, TX 78769-2963

Mr. Jochen Polster Mail Stop and Zip Code change
 Advanced Micro Devices
 901 Thompson Place, MS 70 O (408) 982-6284
 Sunnyvale, CA 94088

Mr. William J. Casey Address and Phone Change
 Advanced Storage Concepts
 10855 Rockley Road O (713) 879-4090
 Houston, TX 77099

Mr. G. Edward Reynolds New Observer
 AMP, Inc.
 P.O. Box 3608 M/S 26-17 O (717) 780-6558
 Harrisburg, PA 17105

Mr. Edward Marsh New Observer
 AMP, Inc.
 3800 Reidville Rd., MS 79-27 O (919) 996-6049
 Winston-Salem, NC 27102

Mr. Kim B. Le New Principal
 Aspen Peripherals
 1860 Lefthand Cir. P (303) 678-0808
 Longmont, CO 80501

Mr. George Reichenberg New Alternate
 Aspen Peripherals
 1860 Lefthand Cir. A (303) 678-0808
 Longmont, CO 80501

Sep 4, 1987 - X3T9.2 Membership Changes - Enclosure (2)

Mr. David Harms New Observer
 AT&T Information Systems
 1100 E. Warrenville Rd. O (312) 979-0159
 Rm IW 2C-427
 Naperville, IL 60566

Mr. Paul Kellogg New Observer
 AT&T Information Systems
 1100 E. Warrenville Rd. O (312) 979-0132
 Rm IW 2B-468
 Naperville, IL 60566

Mr. Joe Lawlor New Observer
 AT&T Information Systems
 1100 E. Warrenville Rd. O (312) 979-0133
 Rm IW 2C-435
 Naperville, IL 60566

Mr. David A. Hatch D. Hatch is no longer at AUGAT
 AUGAT INC.
 33 Perry Ave. O (617) 222-2203
 Attleboro, MA 02703

Mr. Heinz Piorunneck Corrected Spelling of "Heinz"
 Burndy Corp.
 Richards Ave. O (203) 852-8480
 Norwalk, CT 06856

Mr. Bill Winterstein New Principal
 Ciprico Inc.
 2955 Xenium Ln. P (612) 559-2034
 Plymouth, MN 55441

Mr. Tom Wicklund New Alternate
 Ciprico Inc.
 2955 Xenium Ln. A (612) 559-2034
 Plymouth, MN 55441

Mr. Thomas A. Fiers New Principal
 Connor Peripherals, Inc.
 P. O. Box 479 P (303) 651-2881
 Longmont, CO 80501

Sep 4, 1987 - X3T9.2 Membership Changes - Enclosure (2)

Mr. Bob Thornton
Fujitsu Components of America
3320 Scott Blvd
Santa Clara, CA 95054

New Observer
O (408) 562-1735

Mr. Dave McIntyre
Hewlett Packard Co.
Disk Memory Div.
11413 Chinden, MS-221
Boise, ID 83707

Corrected address
A (208) 323-3003

Mr. Ed Walker
Hewlett Packard Co.
Disk Memory Div.
11413 Chinden Blvd, MS 342
Boise, ID 83707

New Observer
O (208) 323-2418

Mr. Bob Pentecost
Hewlett Packard Co.
Disk Memory Div.
11413 Chinden Blvd, MS 342
Boise, ID 83707

New Observer
O (208) 323-3312

Mr. Fred Pramann
Hewlett Packard Co.
3000 Hanover St.
P.O. Box 10301
Palo Alto, CA 94303-0890

New Observer
O (415) 857-2048

Mr. Eric Rowal
Honeywell Bull, Inc.
300 Concorde Rd.
Billerica, MA 01821

Organization changed from "Honeywell, Inc."
O (617) 671-3333

Mr. Gerald Marazas
IBM Corp.
Mail Stop 4633
P.O. Box 1328
Boca Raton, FL 33429

New Alternate
A (305) 241-3375

Mr. R. Hallam
ICL
Wenlock Way
West Gorton
Manchester, UK M12 5DR

New Alternate
A

Sep 4, 1987 - X3T9.2 Membership Changes - Enclosure (2)

Mr. Randy Kerns
Intellistor
2120 Miller Dr.
Longmont, CO 80501

New Observer
O (303) 678-0697

Mr. Craig Scott
Interphase Corp.
2925 Merrell Rd.
Dallas, TX 75229

Replaces Ed Gross (was Observer)
A (214) 350-9000

Mr. Ed Gross
Interphase Corp.
2925 Merrell Rd.
Dallas, TX 75229

Replaced by Craig Scott
A (214) 350-9000

Mr. Stephen Cornaby
Iomega Corp.
1821 West 4000 South
Roy, UT 84067
Bldg. / 6

Replaces M. DeForest (was Alternate)
P (801) 778-1000

Mr. Eric J. Halvorsen
Iomega Corp.
1821 West 4000 South
Roy, UT 84067
Bldg. / 6

Replaces S. Cornaby as Alternate
A (801) 778-1000

Mr. Marvin R. DeForest
Iomega Corp.
1821 West 4000 South
Roy, UT 84067
Bldg. / 6

Replaced by S. Cornaby
P (801) 778-1000

Mr. Bill Aycok
Kennedy Company
1600 Shamrock Ave.
Monrovia, CA 91016

Terminated -- left Kennedy
O

Mr. Rino Mazzucco
Kennedy Company
1600 Shamrock Ave.
Monrovia, CA 91016

Terminated -- left Kennedy
O (818) 303-8172

Sep 4, 1987 - X3T9.2 Membership Changes - Enclosure (2)

Mr. John Hackmann McDonnell Douglas 3320 Cedar Mtn Rd. Belleville, IL 62221	New Observer O (314) 895-5296
Mr. Paul Wassenberg Micropolis Corp. 21123 Nordhoff St. Chatsworth, CA. 91311	Replaces Jim Patton P (818) 709-3318
Mr. Jim Patton Micropolis Corp. 21123 Nordhoff St. Chatsworth, CA 91311	Replaced by Paul Wassenberg N (818) 709-3306
Mr. Richard Hodgson Micropolis Corp. 21123 Nordhoff St. Chatsworth, CA 91311	Terminated per Jim Patton N (818) 709-3457
Mr. Paul Stavish Micropolis Corp. 21239 Nordhoff St. Chatsworth, CA 91311	Terminated per Jim Patton A (818) 709-3466
Mr. Thomas Gettys Miniscribe Corp. 1831 Lefthand Circle (B8) Longmont, CO 80501	Was Alternate P (303) 678-2337
Mr. Michael Bryan Miniscribe Corp. 1831 Lefthand Cr., B8-1 Longmont, CO 80501	Was Principal A (303) 678-2186
Mr. Fred F. Meadows NCR Corp. 16550 W. Bernardo Dr. San Diego, CA 92127	Second Alternate A (619) 485-3228

Sep 4, 1987 - X3T9.2 Membership Changes - Enclosure (2)

Mr. Charles Yang Panasonic Industrial Co. - MSD 1600 McCandless Dr. Milpitas, CA 95035	Org., Address, and Phone change P (408) 262-2200
Mr. Kiran Shah Panasonic Industrial Co. - MSD 1600 McCandless Dr. Milpitas, CA 95035	Org., Address, and Phone change A (408) 262-2200
Mr. Robert Metz PrairieTek Corp. 10133 N. 75th St. Longmont, CO 80501	New Observer O (303) 443-3788
Mr. John Fobel Rancho Technology, Inc. 8632 Archibald Ave., Suite 109 Rancho Cucamonga, CA 91730	New Observer O (714) 987-3966
Mr. Mike Eneboe Scientific Micro Systems 339 N. Bernardo Ave. P.O. Box 7777 Mountain View, CA 94039	Replaces Bob Reid A (415) 964-5700
Mr. Ron Schlitzkus Scientific Micro Systems 339 N. Bernardo Ave. P.O. Box 7777 Mountain View, CA 94039	New Observer O (415) 964-5700
Mr. Bob Reid Scientific Micro Systems 339 N. Bernardo Ave. P. O. Box 7777 Mtn View, CA 94039	Replaced by Mike Eneboe A (415) 962-5416
Mr. David A. Hatch Stewart Connector Systems 203 Monomuscoy Rd. Mashpee, MA 02649	Org. name change (was Stewart Connector & Plast O (617) 477-4403

Sep 4, 1987 - X3 Membership Changes - Enclosure (2)

Mr. Herman Pass
Terminal Data Corp.
2800 N. Madgra Rd.
Simi Valley, CA 93065

Replaces H. Tucker
O (805) 584-0500

Mr. Harry Tucker
Terminal Data Corp.
2800 N. Madgra Rd.
Simi Valley, CA 93065

Replaced by Herman Pass
O (805) 584-0500

Ms. Patricia H. Leary
Thomas & Betts
920 Route 202
Raritan, NJ 08869

Replaces P. Phillips as Alternate
A (210) 469-4000

Mr. Paul Phillips
Thomas & Betts
920 Route 202
Raritan, NJ 08869

Was Alternate -- now Observer
O (201) 469-4000

Mr. Peter Dougherty
UNISYS
San Thomas and Central Express P
MS Tucson
Santa Clara, CA 95052

Replaces Ralph Schultz
P (408) 982-2214

Mr. Ralph Schulz
UNISYS
Mail Stop E4-121
P. O. Box 500
Blue Bell, PA 19424

Replaced by P. Dougherty
P (215) 542-3713

Mr. Jeff Stal
Western Digital
2445 McCabe Way
Irvine, CA 92714

Was Alternate
P (714) 474-2033 x7137

Mr. Ken Post
Western Digital
2445 McCabe Way
Irvine, CA 92714

Was Principal
A (714) 474-2033 x7301

Sep 4, 1987 - X319.2 Active Membership sorted by Organization - Enclosure (3)

Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Anthony Kozlowski	P	3M Company	3M Center	Bldg. 236-GN-06	St. Paul, MN 55144	(612) 733-7063
Mr. Robert C. Herron	A	3M Company	Bldg. 502, POB 2963	11209 Metric Blvd.	Austin, TX 78769-2963	(512) 834-6807
Mr. John Knudson	S	3M Company	11209 Metric Blvd. 502-IN-14	Austin, TX 78769-2963		(512) 834-5723
Mr. Robert M. Snively	P	Adaptec, Inc.	580 Cottonwood Dr.	Hilpitas, CA 95035		(408) 432-8600 x442
Mr. William A. Horton	A	Adaptec, Inc.	580 Cottonwood Dr.	Hilpitas, CA 95035		(408) 432-8600
Mr. Robert R. Williamsen	A	Adaptec, Inc.	580 Cottonwood Dr.	Hilpitas, CA 95035		(408) 432-8600
Mr. Govind Kamath	O	Advanced Micro Devices	2130 Woodward St.	Mail Stop 536	Austin, TX 78744	(512) 488-9017
Mr. Jochen Polster	O	Advanced Micro Devices	901 Thompson Place, MS	Sunnyvale, CA 94088		(408) 982-6204
Mr. Moshe Segal	O	Advanced Micro Devices	Mail Stop 70	901 Thompson Pl.	Sunnyvale, CA 94086	(408) 732-2400
Mr. William J. Casey	O	Advanced Storage Concepts	10855 Rockley Road	Houston, TX 77099		(713) 879-4090
Mr. Koen Van de Poel	SS	Agfa Gevaert EBS	Mechelsesteenweg 30	B-2520 Edegem	Belgium	3-444.62.23
Mr. Don Stevenson	S	Alcyon	P.O. Box 4576	Carlsbad, CA 92008		(619) 587-1155
Mr. H. Dorris	O	American Bell	Headquarters Plaza - W	I Speedwell Av Rm 0966W	Morristown, NJ 07960	(201) 898-2234
Mr. Charles Brill	P	AMP, Inc.	Mail Stop 210-20	P. O. Box 3600	Harrisburg, PA 17105	(717) 561-6198
Mr. Edward Marsh	O	AMP, Inc.	3000 Reidsville Rd., MS 79-27	Winston-Salem, NC 27102		(919) 996-6049
Mr. C. Edward Reynolds	O	AMP, Inc.	P.O. Box 3608 N/S 26-17	Harrisburg, PA 17105		(717) 780-6558
Mr. John Colwell	P	Amphenol Corp.	4300 Commerce Ct.	Lisle, IL 60532		(312) 983-3569
Mr. Ed Cienlawa	A	Amphenol Corp.	4300 Commerce Ct.	Lisle, IL 60532		(312) 938-3691
Mr. Rick Lehrbaum	P	AMPRO Computers, Inc.	67 E. Evelyn Ave.	Mtn. View, CA 94041		(415) 962-0230
Mr. William Dollar	A	AMPRO Computers, Inc.	67 E. Evelyn Ave.	Mtn. View, CA 94041		
Mr. William Watson	P	Apple Computer	Mail Stop 22-M	20525 Mariani Ave.	Cupertino, CA 95014	(408) 973-2927
Mr. Jon Milledge	A	Apple Computer	H. S. 22-AA	20525 Mariani Ave.	Cupertino, CA 95014	(408) 973-6727
Mr. Harlan Andrews	S	Apple Computer	Mail Stop 22AA	20525 Mariani Ave.	Cupertino, CA 95014	(408) 973-6430
Mr. Conrad Chen	ST	Apple Computer	Mail Stop 22AA	20525 Mariani Ave.	Cupertino, CA 95014	(408) 973-6316
Mr. Ali Khosrowpour	O	Applied Data Communications	14272 Chambers Rd.	Tustin, CA 92680		(714) 731-9000
Mr. Randy Sprague	P	Applied Microsystems Corp.	5020 148th Ave. N. E.	P. O. Box C-1002	Redmond, WA 98073-1002	(202) 882-2000
Mr. Louis C. Domsy	P	Archive Corp.	1650 Sunflower Ave.	Costa Mesa, CA 92626		(714) 966-7317
Mr. Bill Miller	A	Archive Corp.	1650 Sunflower Ave.	Costa Mesa, CA 92626		(714) 641-0279
Mr. Kim B. Le	P	Aspen Peripherals	1860 Lefthand Cir.	Longmont, CO 80501		(303) 678-0808
Mr. George Reichenberg	A	Aspen Peripherals	1860 Lefthand Cir.	Longmont, CO 80501		(303) 678-0808
Mr. Raymond Lee	O	AST Research, Inc.	2121 Alton Ave.	Irvine, CA 92714		(714) 863-1333 x6001

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Name	S	Organization	Address1	Address2	Address3	Phone
John J. Semanek	P	AT&T Information Systems	1100 E. Warrentville Rd.	Room 2A-138	Naperville, IL 60566	(312) 979-7981
Allen England	A	AT&T Information Systems	1100 E. Warrentville Rd.	Room 1W 2A-234	Naperville, IL 60566	(312) 979-7852
Ed Harms	O	AT&T Information Systems	1100 E. Warrentville Rd.	Rm 1W 2C-427	Naperville, IL 60566	(312) 979-0159
Kelllogg	O	AT&T Information Systems	1100 E. Warrentville Rd.	Rm 1W 2B-468	Naperville, IL 60566	(312) 979-0132
Lawlor	O	AT&T Information Systems	1100 E. Warrentville Rd.	Rm 1W 2C-435	Naperville, IL 60566	(312) 979-0133
Richardson	O	AT&T Information Systems	1100 E. Warrentville Rd.	1W1F437	Naperville, IL 60566	(312) 979-7180
	O	Attn: F2009-ST	5827 Columbia Pike	Suite 306	Falls Church, VA 22041	
Amato	O	Bear Creek Group	441 West Allen Ave.	Suite 102	San Dimas, CA 91773	(714) 592-6265
Carl Hanna	O	Bell and Howell	5700 Lombardo Center	Suite 220, Center Bldg	Seven Hills, OH 44131	(216) 642-9060
Privat	O	Bull Peripheral Corp.	766 San Aleso	Sunnyvale, CA 94086		(408) 745-0855
Ed Barnum	O	Burdy Corp.	311 Greenhill Road	Madison, CT 06443		(203) 852-6062
Ed Pionas	O	Burdy Corp.	Richards Ave.	Norwalk, CT 06856		(203) 852-8480
Ed Conteras	O	Caliper	19701 S. Vermont Ave.	Torrance, CA 90502		(213) 538-1030
Harlat	I	COMHA	311 First St., N. W.	Suite 500	Washington, DC 20001	(202) 737-8888
McElroy	P	CD/MP	MS OKM 275	P. O. Box 12313	Oklahoma City, OK 73157	(405) 324-3070
Ed Boulder	A	CDL/MP	Hall Station MTE43G	12501 Whitewater Dr.	Minnetonka, MN 55343	(612) 936-6430
Ed Zappa	O	Century Data Systems	1270 N. Kraemer Blvd.	Anaheim, CA 92806		(714) 99-2623
Davies	P	Cipher Data Products, Inc.	10101 Old Grove Rd.	Mail Stop D18	San Diego, CA 92138	(619) 578-9100
Ed Crompton	A	Cipher Data Products, Inc.	10101 Old Grove Rd.	Mail Stop D-4	San Diego, CA 92131	(617) 671-3333
Fenn	ST	Cipher Data Products, Inc.	10101 Old Grove Rd.	San Diego, CA 92138		(619) 578-9100
Ed Foxworthy	ST	Cipher Data Products, Inc.	10101 Old Grove Rd.	San Diego, CA 92138		(619) 578-9108
Ed Pope	P	Cipher/Optimem	435 Oakmead Pkwy.	Sunnyvale, CA 94086		(408) 737-7373
Ed Stoner	A	Cipher/Optimem	435 Oakmead Pkwy.	Sunnyvale, CA 94086		(408) 737-7373
Ed Winterstein	P	Ciprico Inc.	2955 Xenium Ln.	Plymouth, MN 55441		(612) 559-2034
Ed Wicklund	A	Ciprico Inc.	2955 Xenium Ln.	Plymouth, MN 55441		(612) 559-2034
Ed Ramachandran	O	Cirrus Logic Inc.	1463 Centre Pointe Dr.	Hilpitas, CA 95035		(408) 945-8300
Bush	O	Compaq Computer Corp.	20555 IH 149	Houston, TX 77070		(612) 789-1694
A. Stokken	O	Compugraphic Corp.	200 Ballardvale St.	Wilmington, MA 01877		(617) 658-5600
Gill	SS	Compuscan, Inc.	900 Huyler St.	Peterboro, N. J. 07608		(201) 288-6001 x349
Ed L. Johnston	ST	Computer Peripherals, Inc.	Tape Products Div.	2621 Van Buren Av.	Norristown, PA 19403	(215) 666-4705
Ed P. Leonard	ST	Computer	Tape Products Div.	2621 Van Buren Av.	Norristown, PA	(215) 666-4645

Sep 4, 1987 - X3T9.2 Active Membership sorted by Organization - Enclosure (3)

Name	S	Organization	Address1	Address2	Address3	Phone
		Peripherals, Inc.			19403	
Mr. Peter Johansson	P	Congruent Software, Inc.	3998 Whittle Ave.	Oakland, CA 94602		(415) 531-5472
Mr. Thomas A. Fiers	P	Connor Peripherals, Inc.	P. O. Box 479	Longmont, CO 80501		(303) 651-2881
Mr. Steve Finch	O	Consultant	21581 Via Invierno	Lake Forest, CA 92630		(714) 458-8099
Mr. Douglas C. Johnson	O	Control Data Corp.	Data Sys. Roseville Div. i	2401 North Fairview Ave.	St. Paul, MN 55113	
Mr. Wayne Sanderson	O	Control Data Corp.	ARH293	4201 N. Lexington Ave.	St Paul, MN 55126	(612) 482-2712
Mr. John Stine	ST	CPI	Valley Forge Corp. Cntr.	2621 Van Buren Av.	Norristown, PA 19403	(215) 666-5000
Mr. Robert Knight	O	CPT Corp.	8100 Mitchel Rd.	P. O. Box 295	Minneapolis, MN 55440	(612) 937-8000
Ms. Lisa Long	O	CPT Corp.	8100 Mitchel Rd.	P. O. Box 295	Minneapolis, MN 55440	(612) 937-8000
Mr. Bart Raudebaugh	O	Cygnat Systems	601 West California Ave.	Sunnyvale, CA 94086-4831		(408) 773-0770
Mr. Dave Cressman	O	Data General Corp.	Technology Dr.	Durham, NH 03824		
Mr. Steve Kohalmi	O	Data General Corp.	Technology Dr.	Durham, NH 03824		(603) 862-6258
Mr. David M. Young	O	Data General Corp.	Technology Dr.	Durham, NH 03824		(603) 862-6255
Mr. Charles DiChlara	O	Data Technology Corp.	15 Wiggins Ave.	Bedford, MA 01730		(617) 275-4044
Mr. Cliff Hall	P	Datacopy Corp.	1215 Terra Bella Ave.	Mtn. View, CA 94043		(415) 965-7900
Mr. Ben Driscoll	A	Datacopy Corp.	1215 Terra Bella Ave.	Mtn. View, CA 94043		(415) 965-7900
Mr. Mel Herman	A	Datacopy Corp.	1215 Terra Bella Ave.	Mtn. View, CA 94043		(415) 965-7900
Mr. Ken Machado	O	Datacopy Corp.	1215 Terra Bella Ave.	Mtn. View, CA 94043		(415) 965-7900
Mr. John Farnsworth	O	Datapoint Corp.	MS 533	9725 Datapoint Dr.	San Antonio, TX 78284	(512) 699-5443
Mr. Phil Devin	L	Dataquest	1290 Ridder Park Dr.	San Jose, CA 95131		(408) 971-9000
Mr. Bill Feagin	ST	DEC	ML01-5/B94	146 Main St.	Maynard, MA 01754-2571	
Mr. James Barnette	O	Dept. of Navy	8334 Barktree Ct.	Sprigfield, VA 22153		
Mr. Jim Murphy	P	DEST Corporation	1201 Cadillac Court	Hilpitas, CA 95035		(408) 946-7100
Mr. James T. Benfer	O	Digi-Data	0580 Dorsey Run Road	Jessup, MD 20794		(301) 498-0200
Mr. Ulrich Kulin	O	Digirede Informatica Ltda	Av Angelica 2582	01228 San Paulo SP	Brazil	55-11-2591233 Ext. 247
Mr. Gary S. Robinson	P	Digital Equipment Corp.	Mail stop ML 12-3/E51	Maynard, MA 01754		(617) 493-4094
Mr. Edward A. Gardner	A	Digital Equipment Corp.	301 Rockrimmon Blvd., S.	CXO 1-2/H22	Col. Springs, CO 80919	(303) 594-2247
Mr. Del Shoemaker	L	Digital Equipment Corp.	1331 Pennsylvania Ave NW	Suite 600, MS: WNP	Washington, DC 20004	(202) 383-5622
Mr. Alan Arnaud	O	Digital Equipment Corp.	333 South Street	SHR1-4/D10	Shrewsbury, MA 01545	(617) 841-2301
Mr. Duncan McDonald	P	Distributed Logic Corp.	1555 S. Sinclair	Anaheim, CA 92806		(714) 937-5700
Mr. Curt Ridgeway	A	Distributed Logic Corp.	1555 S. Sinclair St.	Anaheim, CA 92806		(714) 937-5700
Mr. Bill Grace	O	Distributed Logic	1555 S. Sinclair St.	Anaheim, CA 92806		(714) 937-5700

Sep 4, 1987 - X3T9.2 Active Membership sorted by Organization - Enclosure (3)

Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Steve Goldman	P	DPF	132 Candace Dr.	Maitland, FL 32751		(305) 830-5522
Mr. Tom Broadway	A	DPF	132 Candace Dr.	Maitland, FL 32751		(305) 830-5522
Mr. Jim Mulligan	O	Dupont Connector Systems	515 Fishing Creek Rd.	New Cumberland, PA 17070		(717) 938-7671
Mr. Stephen Fitzgerald	P	Eastman Kodak Co.	Mass Memory Division	460 Buffalo Rd.	Rochester, NY 14611	(716) 588-0219
Mr. Allan Miller	A	Eastman Kodak Co.	Mass Memory Division	460 Buffalo Rd.	Rochester, NY 14611	(716) 588-0220
Mr. Roger Beck	O	Eastman Kodak Co.	Mass Memory Division	460 Buffalo Rd.	Rochester, NY 14611	(716) 588-0596
Mr. D. Bekom	L	ECMA	Rue du Rhone 114	CH-1204 Geneva		
Mr. Arnold J. Roccati	P	EG&G WASC, Inc.	1396 Piccard Dr.	Rockville, MD 20850		(301) 840-3277
Mr. Robert B. Anthony	A	EG&G WASC, Inc.	P. O. Box 552	Dahlgren, VA 22448		(703) 663-2161
Mr. Tom Fitzgerald	O	Electronic Processors, Inc.	2611 W. Dartmouth Ave.	Englewood, CO 80112		
Mr. Vince Stanton	O	Electronic Processors, Inc.	P. O. Box 569	Englewood, CO 80117		
Mr. David C. Epps	SI	Electronic Processors, Inc.	1265 W. Dartmouth Ave.	Englewood, CO 80110		(303) 761-8540
Mr. Paul Mitza	P	Emulex Corp.	3545 Harbor Blvd.	P. O. Box 6725	Costa Mesa, CA 92626	(714) 662-5600
Mr. Kim V. Le	A	Emulex Corp.	3545 Harbor Blvd.	P.O. Box 6725	Costa Mesa, CA 92626	(714) 662-5600
Mr. Anita Ruster	H	Emulex Corp.	3545 Harbor Blvd.	Costa Mesa, CA 92626		(714) 662-5600
Mr. Randy Weber	SI	Emulex Corp.	Vice Chair, X3T9.2	14426 Black Walnut Ct.	Saratoga, CA 95070	(408) 867-6630
Mr. L. Dal Allan	P	ENDL				
Mr. Ken Ho	O	Everex Systems, Inc.	2218 San Gabriel Blvd.	Suite 12	Rosemead, CA 91770	
Mr. Rashed Vashi	SI	Fairchild	313 Fairchild Dr.	MS 4-370	Mt. View, CA 94039	(415) 962-4027
Mr. A. Buckley	O	Ferranti Computer Systems	Simonsway, Mythenquay	Manchester M22 5LA	England	+44 61 499 3355
Mr. Michael Rudy	O	FileNet Corp.	3530 Hyland Ave.	Costa Mesa, CA 92626		(714) 966-2344
Mr. Carlos E. Vidales	S	FileNet Corp.	3530 Hyland Ave.	Costa Mesa, CA 92626		(714) 966-2344
Mr. Robert Liu	P	Fujitsu America, Inc.	3055 Orchard Dr.	San Jose, CA 95134		(408) 432-1300 x3335
Mr. Bo Larsson	A	Fujitsu America, Inc.	3055 Orchard Dr.	San Jose, CA 95134		(408) 432-1300
Mr. David Snook	A	Fujitsu America, Inc.	3055 Orchard Dr.	San Jose, CA 95134		(408) 432-1300
Mr. Bob Thornton	O	Fujitsu Components of America	3320 Scott Blvd	San Jose, CA 95054		(408) 562-1735
Mr. Seichi Sugaya	S	Fujitsu Limited	1015 Kamikodaira	Hakohara-ku	Kawasaki, Japan 211	(044) 777-1111
Mr. Jeff Gallup	O	Gallup and Associates	2131 University Ave.	Berkely, CA 94708		
Mr. Greg Hite	P	Hewlett Packard Co.	Disk Memory Div.	P.O. Box 39, MS-213	Boise, ID 83707	(208) 323-3208
Mr. Ellen Hunt	A	Hewlett Packard Co.	700 71st Ave.	Greeley, CO 80634		(303) 350-4551

Sep 4, 1987 - X3T9.2 Active Membership sorted by Organization - Enclosure (3)

Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Dave McIntyre	A	Hewlett Packard Co.	Disk Memory Div.	11413 Chinden, MS-221	Boise, ID 83707	(208) 323-3003
Mr. Pete Bramhall	O	Hewlett Packard Co.	Filton Road Stoke Gifford	Bristol BS12 6QZ	England	(0272) 799910
Mr. Don Loughry	O	Hewlett Packard Co.	11000 Wolf Rd.	Cupertino, CA 95014		(408) 257-7000 x2454
Mr. Tom Moore	O	Hewlett Packard Co.	Disk Memory Division	MS 345, P.O. Box 39	Boise, ID 83707	
Mr. Bob Pentecost	O	Hewlett Packard Co.	Disk Memory Div.	11413 Chinden Blvd, MS 342	Boise, ID 83707	(208) 323-3312
Mr. Fred Pramann	O	Hewlett Packard Co.	3000 Hanover St.	P.O. Box 10301	Palo Alto, CA 94303-0890	(415) 857-2048
Mr. Pat Walker	O	Hewlett Packard Co.	Disk Memory Div.	11413 Chinden Blvd, MS 342	Boise, ID 83707	(208) 323-2418
Mr. Rick Kato	S	Hewlett Packard Co.	700 71st Ave.	Greeley, CO 80634		
Mr. Kenji Hishimura	O	Hitachi America, Ltd.	950 Elm Ave	San Bruno, CA 94066		(415) 872-1902
Dr. Sam Karunanithi	P	HMSI, Inc.	180 Rose Orchard Way	San Jose, CA 95134		(408) 433-1990
Mr. Kris Kuwel	O	Honeywell Bull, Inc.	300 Concorde Rd.	Billerica, MA 01821		(617) 671-3333
Mr. Greg Iloryance	P	IBM Corp.	Upt. 3E2, Bldg. 114-2	37 St., Highway 52	Rochester, MN 55901	(507) 253-1869
Mr. E. W. Calkins	A	IBM Corp.	P44-097	5600 Cattle Rd.	San Jose, CA 95193	(408) 284-7222
Mr. Gerald Marazas	A	IBM Corp.	Mail Stop 4633	P.O. Box 1320	Boca Raton, FL 33429	(305) 241-3375
Mr. Gary R. Stephens	A	IBM Corp.	Dept 63K/071-2	9000 S. Rita Rd.	Tucson, AZ 85744	(602) 799-2246
Mr. Greg Sims	SI	IBM Corp.	Mail Stop 63B/021-2	Tucson, AZ 85744		(602) 799-7311
Mr. Tony Salthouse	P	ICL	Wenlock Way	West Gorton	Manchester, UK M12 5DR	61-223 1301
Mr. R. Hallam	A	ICL	Wenlock Way	West Gorton	Manchester, UK M12 5DR	
Mr. Richard Coulson	O	Intel Corp.	11F2-1-108	5200 Elam Young Pkwy.	Hillsboro, OR 97123	(503) 681-5287
Mr. Randy Kerns	O	Intellistor	2120 Miller Dr.	Longmont, CO 80501		(303) 678-0697
Mr. Dave Bethune	P	Intergraph Corp.	1 Madison Ind. Park	Huntsville, AL 35807		(205) 772-6136
Mr. Orrin Char	A	Intergraph Corp.	1 Madison Industrial Park	Huntsville, AL 35807		(205) 772-6127
Mr. Steve Kappes	P	Interphase Corp.	2925 Merrell Rd.	Dallas, TX 75229		(214) 350-9000
Mr. Craig Scott	A	Interphase Corp.	2925 Merrell Rd.	Dallas, TX 75229		(214) 350-9000
Mr. Bruce Brunette	O	Introl Corp.	2855 Anthony Ln.	Hinneapolis, MN 55418		(612) 789-2421 x46
Mr. Stephen Cornaby	P	Iomega Corp.	1821 West 4000 South	Roy, UT 84067	Bldg. # 6	(801) 778-1000
Mr. Eric J. Halvorsen	A	Iomega Corp.	1821 West 4000 South	Roy, UT 84067	Bldg. # 6	(801) 778-1000
Mr. Marlin Klumpp	SI	Irwin Magnetics	2341 Green Rd.	Ann Arbor, MI 48105		(313) 996-3323
Mr. Jon Miller	O	JRM Consultants Inc	P.O. Box 90310	Santa Barbara, CA 93190-0310		(805) 564-3119
Mr. Tu Ton	O	Kennedy Company	1600 Shamrock Ave.	Monrovia, CA 91016		(818) 303-8113
Mr. Alan Ebright	P	Laserdrive	1101 Space Park Drive	Santa Clara, CA 95054		(408) 970-3600
Mr. Doug Mitchell	A	Laserdrive Ltd.	1101 Space Park Dr.	Santa Clara, CA 95054		(408) 970-3607
Mr. William Homans	P	LMSI-CP1	2621 Van Buren Ave.	Norristown, PA 19403		(215) 666-4764
Mr. Louis G. Edwards	A	LMSI-OS1	4425 ArrowsWest Dr.	Colorado Springs, CO 80907		(303) 593-4205
Mr. Paul Boulay	O	LMSI-OS1	4425 ArrowsWest Dr.	Colorado Springs, CO		(303) 593-4323

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Name	S	Organization	Address1	Address2	Address3	Phone
ve Pohn	SO	LMSI-DSI	4425 ArrowsWest Drive	Colorado Springs, CO 80907		
bert Bellino	D	Madison Cable Con.	125 Goddard Memorial Dr.	Worcester, MA 01603		(617) 752-7320
bert L. Bailey	P	MAI Basic Four	14101 Hyford MD312	Tustin, CA 92680		(714) 730-2509
ove Helsenboitel	D	Matsushita Technology Cnt	One Panasonic Way	Secaucus, NJ 07094		(201) 348-7000
ip Jones	P	Haxtor Corp.	150 River Oaks Pkwy	San Jose, CA 95134		(408) 432-3645
in Blamerje	A	Haxtor Corp.	211 River Oaks Pkwy	San Jose, CA 95134		(408) 432-4452
in Hortensen	A	Haxtor Corp.	211 River Oaks Pkwy	San Jose, CA 95134		(408) 432-4447
in Roy	D	Haxtor Corp.	211 River Oaks Pkwy	San Jose, CA 95134		(408) 432-4722
in Backhaus	D	McDonnell Douglas	3320 Cedar Mtn Rd.	Belleville, IL 62221		(314) 895-5296
ger Barnes	D	Memorex Corp. -14-47	San Tomas at Central Expsy	Santa Clara, CA 95052		(408) 987-0441
in Masterson	P	Methode Electronics, Inc.	2950 S. Jamaica, #100	Aurora, CO 80014		(303) 695-1333
ide Weaver	A	Methode Electronics, Inc.	3125 Poplarwood Ct.	PO Box 95073	Realeigh, NC 27625	(919) 878-0988
nger Corte	D	Mettler Management Systems	3 Foundation St.	Ipswich IP41BG	England	
ul Bassenberg	P	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA. 91311		(818) 709-3318
in Eagle	A	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA 91311		(818) 709-3489
Richard Hodgson	N	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA 91311		(818) 709-3457
in Patton	N	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA 91311		(818) 709-3306
ick Elvotte	D	MILIGUL Corp.	1770 Walt Whitman Rd.	Melville, NY 11747		
omas Gettys	P	Miniscribe Corp.	1831 Lefthand Circle (BB)	Longmont, CO 80501		(303) 678-2337
ichael Bryan	A	Miniscribe Corp.	1831 Lefthand Cr., BB-1	Longmont, CO 80501		(303) 678-2186
aniel L. Bozorny	P	Mitsubishi Electronics Amer	991 Knox St.	Torrance, CA 90502		(213) 515-3993
shio Bashimoto	D	Mitsubishi Electronics Amer	991 Knox St.	Torrance, CA 90502		(213) 515-3993
lan Wolf	D	Motorola	3501 Ed Bluestein Blvd.	Austin, TX 78721		
usy Maher	D	Motorola Micro Systems	Mail Drop DM220	2900 S. Diablo Way	Tempe, AZ 85282	(602) 438-3286
aul Rosen	D	Motorola Micro Systems	2900 S. Diablo Way	Tempe, AZ 85282		(602) 438-3150
d Perry	D	Mountain Computer	300 El Pueblo Rd.	Scotts Valley, CA 95066		
illiam E. Burr	P	Nat. Bureau of Standards	Room A-216, Bldg. 225	Gaithersburg, MD 20899		(301) 975-2914
lu Zuqlu	A	Nat. Bureau of Standards	Room A-216, Bldg. 225	Gaithersburg, MD 20899		(301) 975-2914
ames Schuessler	P	National Semiconductor	POB 58090, M/S 3969	2900 Semiconductor Dr.	Santa Clara, CA 95052-8090	(408) 721-6802
arry Kendall	A	National Semiconductor	POB 58090, M/S 3969	2900 Semiconductor Dr.	Santa Clara, CA 95052-8090	(408) 721-5964

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Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Frank Krulic	P	NCL America	1221 Innsbruck	Sunnyvale, CA 94089		(408) 734-1006
Mr. Aki Komatzuzaki	A	NCL America	1221 Innsbruck	Sunnyvale, CA 94089		(408) 734-1006
Mr. John Lohmeyer	P	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8703
Mr. Marty Francis	A	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8000
Mr. Fred F. Meadows	A	NCR Corp.	16550 W. Bernardo Dr.	San Diego, CA 92127		(619) 485-3228
Mr. Harry Mason	D	NCR Corp.	1635 Aeroplaza	Col. Springs, CO 80916		(303) 596-5794 x224
Mr. Jack Brown	S	NCR Corp.	1635 Aeroplaza	Colorado Springs, CO 80916		(303) 596-5794 x212
Mr. Duane Draving	SI	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8720
Mr. Monte Evans	SI	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8706
Mr. Terry Johnson	S	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8000
Mr. Michael Linkous	S	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8000
Mr. Ron Miller	SI	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8707
Mr. Dave Skinner	SI	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 688-8000
Mr. Bruce Anderson	P	NEC I.S.	1414 Mass. Ave.	Boxborough, MA 01719		(617) 264-8432
Mr. John Zilinski	A	NEC I.S.	110 Rio Rubles	San Jose, CA 95134		(408) 433-1390
Ms. Joan French	D	NEC Systems Laboratory	1414 Massachusetts Ave.	Boxboro, MA 01719		(617) 262-2627
Mr. Paul K. Garretson	D	Nissei Sangyo (Hltachi)	460 E. Middlefield Rd.	Ht. View, CA 94043		(415) 969-1100
Mr. Hobby Yawata	D	Nissho Electronics (USA)	Inwood Park, Suite 200	17310 Red Hill Ave.	Irvine, Ca 92714	(714) 261-8811
Mr. Prentiss Smith	D	Nissho Iwai	American Corp.	700 S. Floor St.	Los Angeles, CA 90017	(213) 688-1120
Mr. Paul Clement	D	North Atlantic Industries	35 South St. (Area E-1)	Hopkinton, MA 01748		(617) 435-9011
Mr. Ron Sulyma	D	North Atlantic Industries	60 Plant Ave.	Hauppauge, NY 11788		(516) 582-6500
Mr. David Filipus	P	Northern Telecom, Inc.	Memory Systems Division	100 Phoenix Dr., POB D 48106	Ann Arbor, MI 48106	(313) 973-4848
Mr. Frank Haas	A	Northern Telecom, Inc.	Memory Systems Division	100 Phoenix Dr., POB D 48106	Ann Arbor, MI 48106	(313) 973-4000
Mr. David Huminski	D	OKIDATA	532 Fellowship Rd.	Ht. Laurel, NJ 08054		(609) 235-2600
Mr. Roman Orzol	S	OKIDATA	532 Fellowship Rd.	Ht. Laurel, NJ 08054		(609) 235-2600 x7467
Mr. Wayne Baldwin	D	Olivetti	20300 Stevens Creek Blvd.	Cupertino, CA 95014		(408) 996-3867
Mr. Jim Harper	P	Optotech, Inc.	740-770 Wooten Rd.	Colorado Springs, CO 80915		(303) 570-7500
Mr. Thomas Steury	D	Pacific Electro Data Sys.	26732 Carritas Dr.	Mission Viejo, CA 92691		(714) 770-3244
Mr. Stephen S. Francis	D	Palantir Corp.	2455 Augustine Dr.	Santa Clara, CA 95054		(408) 986-8006
Mr. Charles Yang	P	Panasonic Industrial Co. - MSD	1600 McCandless Dr.	Hilpitas, CA 95035		(408) 262-2200
Mr. Kiran Shah	A	Panasonic Industrial Co. - MSD	1600 McCandless Dr.	Hilpitas, CA 95035		(408) 262-2200
Mr. Robert Bender	P	Pentax Teknologies	880 Interlocken Pkwy	Broomfield, CO 80020		(303) 460-1600
Mr. Bill Bunker	A	Pentax Teknologies	880 Interlocken Pkwy	Broomfield, CO 80020		(303) 460-1600
Mr. John J. Grana	D	Performance Technologies, Inc.	435 W. Commercial St.	E. Rochester, NY 14445		(716) 586-6727
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Name	S	Organization	Address1	Address2	Address3	Phone
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Mr. Bert Gull	O	Philips Subsystems	Bldg 2, Suite 401	1111 Northshore Dr.	Knoxville, TN 37919	(615) 558-5110
Mr. Ken Darian	O	Phillips	100 E. 42nd St.	New York, NY 10017		(212) 850-5588
Mr. Robert Metz	O	PrairieTek Corp.	10133 N. 75th St.	Longmont, CO 80501		(303) 443-3788
Mr. James A. Miltworth	P	Priam Corp.	20 West Montague Expressway	San Jose, CA 95134		(408) 434-9300
Mr. Daryl Adams	A	Priam Corp.	20 W. Montague Expy	San Jose, CA 95134		(408) 434-9300
Mr. Ron Scott	A	Priam Corp.	20 West Montague Expressway	San Jose, CA 95134		(408) 434-9300
Mr. Mike Buckert	O	Priam Corp.	20 West Montague Expressway	San Jose, CA 95134		(408) 434-9300
Mr. Michael Fitzpatrick	O	Prime Computer, Inc.	500 Old Connecticut Path	Framingham, MA 01701		(617) 879-2960
Mr. Ara Nazarian	O	PTI	685 East Cochran St.	Simi Valley, CA 93065		(805) 581-1000
Mr. James McGrath	P	Quantum Corp.	1804 McCarthy Blvd.	Milpitas, CA 95035		(408) 432-1100
Mr. Tony Lo	A	Quantum Corp.	1804 McCarthy Blvd.	Milpitas, CA 95035		(408) 432-1100
Mr. Tom Hagen	O	Quantum Corp.	1804 McCarthy Blvd.	Milpitas, CA 95035		(408) 432-1100
Mr. John Tobel	O	Rancho Technology, Inc.	R612 Archibald Ave., Suite 109	Rancho Cucamonga, CA 91730		(714) 987-3966
Mr. Tetsuro Motoyama	P	Ricoh Corporation	2071 Concourse Dr.	San Jose, CA 95131		(408) 434-6700
Mr. Dave Roper	A	Ricoh Corporation	2071 Concourse Dr.	San Jose, CA 95124		(408) 434-6700
Mr. David Huston	P	RODIME LTD	Southfield	Glenrothes, Scotland		44(592) 774704
Mr. Robert Bachob	O	Rogers Corp	One Technology Dr.	Rogers, CT 06263		(203) 774-9605
Mr. Dexter Anderson	P	Scientific Micro Systems	339 N. Bernardo Ave.	P. O. Box 7777	Mtn View, CA 94039	(415) 962-5457
Mr. Mike Eneloe	A	Scientific Micro Systems	339 N. Bernardo Ave.	P.O. Box 7777	Mountain View, CA 94039	(415) 964-5700
Mr. Ron Schlitzkus	O	Scientific Micro Systems	339 N. Bernardo Ave.	P.O. Box 7777	Mountain View, CA 94039	(415) 964-5700
Mr. Haim Amir	S	Scitex Corp. Ltd.	P.O. Box 330	46103 Herzlia B	Israel	(052) 54938
Mr. Joe Molina	I	SCSI Forum Advisory Board	23409 Coyote Springs Dr.	Diamond Bar, CA 91765		(714) 861-3339
Mr. D. Michael Robinson	P	Seagate Technology	920 Disc Drive	Scotts Valley, CA 95066		(408) 438-6550 x2397
Mr. Carter O'Brien	A	Seagate Technology	920 Disc Drive	Scotts Valley, CA 95066		(408) 438-6550
Mr. Charles H. Schroter	A	Seagate Technology	920 Disc Drive	Scotts Valley, CA 95066		(408) 438-6550
Mr. K. Ota	O	Seiko Epson Corp., 2L Group	Suwaminami Factory	1010 Fujimi-Machi, Suwa-Gun	Nagano-Ken, Japan	
Mr. Norm Ream	L	Self	511 Avenida San Juan E.	San Clemente, CA 92672		(714) 492-2438
Mr. Roger Shelton	O	SEQUENT Computer Systems	15450 SW Koll Parkway	Beaverton, OR 97006-6063		(503) 627-9818 777
Mr. John Sondergaard	ST	Siemens Information Systems, Inc.	5655 Lindero Canyon Rd, Ste 325	Westlake Village, CA 91362		(714) 978-6771
Mr. C. Van Der Sel	L	Siemens AG/ECMA-TC30	St. Martin-Strasse 76	P. O. Box 801701	D-8000 Munich	01149-89-4133-4735

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Mr. Dean Konell	A	Siemens Information Sys.	5655 Lindero Cyn Rd #325	Westlake Village, CA 91362		(818) 706-8872
Mr. Sergio Fonesca	P	Sony Corp. of America	1 Sony Dr.	Park Ridge, NJ 07656		(201) 930-6464
Mr. Lawrence J. Lowers	A	Sony Corp. of America	655 River Oaks Parkway	San Jose, CA 95134		(408) 432-0190
Mr. Rafael Orsini	O	Sony Corp. of America	15 Essex Rd.	Paramus, NJ 07652		(201) 368-5151
Mr. Ron Ethe	P	Standard Micro Systems	35 Marcus Blvd.	Hauppauge, NY 11788		(516) 273-3100
Mr. David Cragg	A	Standard Micro Systems	35 Marcus Blvd.	Hauppauge, NY 11788		(516) 273-3100
Mr. David A. Hatch	O	Stewart Connector Systems	203 Monomoscwy Rd.	Hashpee, MA 02649		(617) 477-4403
Mr. Dennis Appleyard	P	Storage Technology Corp.	Mail Drop 4271	2270 South 88th St.	Louisville, CO 80028-4271	(303) 673-6685
Mr. Don McCarthy	A	Storage Technology Corp.	Mail Drop 4271	2270 South 88th St.	Louisville, CO 80028-4271	(303) 673-6417
Mr. Michael O'Donnell	O	Storage Technology Corp.	Mail Drop 91	2270 South 88th St.	Louisville, CO 80028	(415) 691-7414
Mr. Fred Berkowitz	P	Sun Microsystems, Inc.	2550 Garcia Ave.	Mountain View, CA 94043		(617) 667-0010
Mr. Paul Rikonen	A	Sun Microsystems, Inc.	Two Federal Street	Billerica, MA 01821		(617) 667-0010
Mr. Norman Morse	O	SyQuest Technology	47923 Warm Springs Blvd.	Freemont, CA 94539		(415) 490-7511
Mr. Joe J. Huang	O	Sysgen, Inc.	556 Gibraltar Dr.	Milpitas, CA 95035		(408) 263-4411
Mr. David L. Smith	ST	Tallgrass Storage Devices	5455 Spine Rd.	Boulder, CO 80301		(303) 530-3688
Mr. Dave Allan	O	Tallgrass Technologies	11100 W. 82nd St.	Overland Pk., KS 66214		
Mr. Frank Hannon	P	Tandem Computer Inc.	Location 100-03	10555 Ridgeview Ct.	Cupertino, CA 95014	(408) 996-6635
Mr. Satish Shah	A	Tandem Computer Inc.	Location 100-03	10555 Ridgeview Ct.	Cupertino, CA 95014	(408) 996-6516
Mr. Ken Ushijima	ST	Teac	ICPD	7733 Telegraph Rd.	Montebello, CA 90640	(213) 726-0303
Mr. Ned H. Mayrath	O	Telex Computer Products	6422 E. 41st St.	Tulsa, OK 74135		(918) 628-2370
Mr. Herman Pass	O	Terminal Data Corp.	2800 N. Madgra Rd.	Simi Valley, CA 93065		(805) 584-0500
Mr. Jesse Eckelkamp	P	Texas Instruments	Data Systems Division	POB 2909, MS 2091	Austin, TX 78769	(512) 250-6525
Mr. Giles A. Pauli	A	Texas Instruments	Data Systems Division	POB 2909, MS 2091	Austin, TX 78769	(512) 250-6632
Mr. D. W. Spence	A	Texas Instruments	Data Systems Division	POB 2909, MS 2091	Austin, TX 78769	(512) 250-6627
Mr. Jerry Laws	O	Texas Instruments	Mail Stop 2091	P.O. Box 2909	Austin, TX	

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Mr. Skip Strong	O	Texas Instruments	P. O. Box 655474	M/S 8209	75265 Dallas, TX	(214) 997-3394
Mr. Harvey Matthesdorf	P	Thomas & Betts	920 Route 202	Raritan, NJ 08869		(201) 469-4000
Ms. Patricia H. Leary	A	Thomas & Betts	920 Route 202	Raritan, NJ 08869		(210) 469-4000
Mr. Paul Phillips	O	Thomas & Betts	920 Route 202	Raritan, NJ 08869		(201) 469-4000
Mr. Bob Bush	H	Thomas & Betts	920 Route 202	Raritan, NJ 08869		(201) 469-4000
Mr. Harvey Altman	O	Thorn EMI Technology	6601 Dumwoody Pl.	Atlanta, GA 30307		(404) 587-0017
Mr. Tom Duffy	O	Tropion Inc.	185 Rt. 34	PO Box 995	Hatawan, NJ 07147	(201) 290-0080
Mr. Al Crowell	O	U. S. Design	5100 Philadelphia Way	Lanham, MD 20706		(301) 577-2880
Mr. Peter Dougherty	P	UNISYS	San Thomas and Central Expressway	MS 14-48	Santa Clara, CA 95052	(408) 982-2214
Mr. Floyd Ross	A	UNISYS	Mail Stop E8-106	P. O. Box 500	Blue Bell, PA 19424	(215) 542-2518
Mr. William G. Ehlom	O	UNISYS	Burroughs Pl.	Detroit, MI 48232		(313) 972-7932
Mr. Roma Voldi	O	UNISYS	P. O. Box 1874	Southeastern, PA 19398		(215) 341-4430
Mr. Louis H. Sharpe	O	Vidar Systems Corp.	520 Herndon Pkwy.	Herndon, VA 22070		(703) 471-7070
Mr. Ken Blesken	O	Vodavi Technologies	8300 Raintree	Scotsdale, AZ 85260		
Mr. John Crowell	O	Wang Laboratories	Mail Stop 1429	1 Industrial Ave.	Lowell, MA 01852	(602) 437-9035
Mr. Booshang Shandish	O	Wang Laboratories	Mail Stop 1219	1 Industrial Way	Lowell, MA 01851	
Mr. Edwin H. MacBett	SI	Wang Laboratories	One Industrial Ave.	Lowell, MA 01851		(617) 967-7263
Mr. Kenji Elmer	O	Wangtek	41 Moreland Rd.	Siml Valley, CA 93065		(805) 583-5255
Mr. Fred Richardson	O	Wangtek	41 Moreland Rd.	Siml Valley, CA 93065		(805) 583-5255
Mr. Varaje Anjargolian	SI	Wangtek	41 Moreland Rd.	Siml Valley, CA 93065		(805) 583-5255
Mr. Binh Vuong	SI	Wangtek	41 Moreland Rd.	Siml Valley, CA 93065		(805) 583-5255
Mr. Carl Warren	L	Warren Group	2980 W. 235th Apt 12	Torrance, CA 90505		(213) 530-6097
Mr. Jeff Stal	P	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 474-2033 x7137
Mr. Ken Post	A	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 474-2033 x7301
Mr. Michael A. Brown	O	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 863-7891
Mr. Ken Ballan	O	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 863-7740
Mr. Marshall Lee	O	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 474-2033 x2432
Mr. Joseph Chen	P	Xebec	3579 Hwy 50 East	Carson City, NV 89701		(702) 883-4000
Mr. Stan Keefer	A	Xebec	3579 Hwy 50 East	Carson City, NV 89701		(702) 883-4000
Mr. Ray Pierce	S	Xerox Corp.	1301 Ridgeview Dr.	Lewisville, TX 75076		

Sep 4, 1987 - X3T9.2 Document Register Enclosure (4)

Document	Ent Date	Doc Date	Author	Description of Document	Resolution
X3T9.2/87-1	2/12/87		J. Schuessler	Ltr. to X3T9.2 members, re: Jitter and Skew Budget for High Speed SCSI	High-Speed Ad Hoc assigned to generate proposal.
X3T9.2/87-2	2/12/87	1/13/87	J. Lohmeyer	Memo to B. Burr, re Jan. 7-9 1987 SCSI-2 Working Group Meeting Minutes	N/A
X3T9.2/87-3	2/12/87	1/20/87	L. Lamers	Memo to B. Burr, re Optical Ad-Hoc Minutes - 01/19/87 to 01/20/87	N/A
X3T9.2/87-4	2/12/87	1/16/87	R. Schultz	Proposal for Communications Devices in SCSI-2	Accepted -- Was included in Rev 1
X3T9.2/87-5	2/12/87	1/28/87	P. Boulay	Proposals from the Optical Working Group - Cover Letter (see 87-11,12)	N/A
X3T9.2/87-6 Rev 1	2/12/87	2/10/87	H. Burr	X3T9.2 X3 Annual Report for 1986	N/A
X3T9.2/87-7 Rev 3	7/13/87	6/26/87	D. W. Spence	Revised proposal for downloading microcode.	Rev 3 includes the June 87 plenary comments
X3T9.2/87-8	2/12/87	1/27/87	J. Hoy	Memo re: Read Defect Data Command (37h) for Optical Storage Devices	Current Section 8 command is OK for Optical Devices
X3T9.2/87-9	2/16/87	1/22/87	J. Schuessler	16-bit SCSI Example Block Diagram	Superseded by 87-36
X3T9.2/87-10	2/16/87	2/11/87	L. Edwards	Optical Disconnect/Reconnect Page Parameters	Accepted with some additions
X3T9.2/87-11	2/16/87	1/27/87	P. Boulay	Update Block Command	Accepted for inclusion in Rev 1
X3T9.2/87-12	2/16/87	1/27/87	P. Boulay	Optical Media Scan Command	Accepted for inclusion in Rev 1
X3T9.2/87-13	2/16/87	2/14/87	J. Lohmeyer	Sense Key Specific Bytes	Accepted for inclusion in Rev 1
X3T9.2/87-14	2/16/87	2/16/87	D. Davies	RESERVE UNIT Command Deficiency	N.G. recommended avoiding problem -- see 87-70
X3T9.2/87-15	2/16/87	2/13/87	J. Semanak	SCSI INQUIRY Command	Issue still open -- Jeff Stal may prepare a proposal
X3T9.2/87-16	2/16/87	2/13/87	J. Lohmeyer	Proposed Wording for Section 6.1.3 (Ref: X3T9.2/86-82)	Included in Revision 1 of SCSI-2
X3T9.2/87-17	2/16/87	2/11/87	M. Rudy	Proposal for Optical Disk Changers	Har W.G. issue: Device vs IQ command set -- see 87-74
X3T9.2/87-18	2/16/87	2/11/87	T. Johnson	Flexible Disk Parameters for MODE SELECT	Included in SCSI-2 Rev 1
X3T9.2/87-19	2/16/87	1/6/87	R. Snively	Consideration of Deferred Error Presentation	
X3T9.2/87-20	2/16/87	2/13/87	R. Snively	Consideration of Off-line bits for SEND DIAGNOSTIC	Included in SCSI-2 Rev 1
X3T9.2/87-21 Rev 1	3/18/87		D. Loski	Revised SCSI Bus Phase Sequencing	Accepted -- Paul Nitza is revising to ASCII format
X3T9.2/87-22	2/16/87	2/12/87	L. Edwards	Optical Disconnect/Reconnect Page Parameters Alternative Proposal	87-10 accepted instead of this proposal
X3T9.2/87-23	2/16/87		D. McIntyre	Proposed SCSI Logo	Accepted for eventual inclusion in an appendix
X3T9.2/87-24	2/17/87	2/16/87	D. Tolmie	High Speed Open Channel Proposal (Slides)	X3T9.3 issue
X3T9.2/87-25	2/17/87	2/16/87	D. Tolmie	High Speed Open Channel Proposal (Paper)	X3T9.3 issue
X3T9.2/87-26	2/17/87	2/13/87	C. Skeldon	Flat Cable Problems in Differential SCSI	Note added to SCSI-2 Rev 1
X3T9.2/87-27	3/6/87	3/6/87	G. Houlder	Clarification of Invalid LUN reporting	See 87-51
X3T9.2/87-28	3/6/87	3/10/87	G. Houlder	Proposed Implementors Notes for	Accepted for inclusion in SCSI-2 Rev

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Document	Int Date	Doc Date	Author	Description of Document	Resolution
X3T9.2/87-29 Rev 1	3/6/87	3/26/87	A. Girtton	Differential Cables and Drivers. Minutes of X3T9.2 Meeting #68, Feb. 16-17, 1987, Clearwater Beach, FL	1 Accepted with minor changes
X3T9.2/87-30	3/6/87	2/20/87	S. Allen	Appointment of J. Lohmeyer as Chair of X3T9.2	More work for John
X3T9.2/87-31	3/6/87	1/16/87	B. Caldwell	Emulex acceptance of X3T9.2 Secretary position (Rich Notari)	More work for Emulex
X3T9.2/87-32	3/6/87		K. Van de Poel	SCSI Scanner Command Set comments	To Scanner W.G.
X3T9.2/87-33	3/9/87	3/10/87	G. Houlder	Clarify Synchronous Data Transfer Description	Included in SCSI-2 Rev 1 (Jeff Stal may have issue with wording.)
X3T9.2/87-34	3/14/87		D. Loski	Recommended software driver command sequence following power-on/reset	At W.G. -- Also see 87-53 Rev 1
X3T9.2/87-35	3/16/87	3/10/87	F. Ross	Request for 1988 Meeting Hosts	Distributed
X3T9.2/87-36	3/10/87	3/10/87	S. Goldman	Wide SCSI Implementation	Part of future appendix -- see 87-69
X3T9.2/87-37	3/10/87	3/10/87	D. Pope	ERASE Command	Accepted with some changes for inclusion in SCSI-2 Rev 1
X3T9.2/87-38	3/10/87	3/10/87	S. Jones	Changes to Automatic Medium Changer (ref 87-17)	Still at W.G. (See 87-74)
X3T9.2/87-39	3/10/87	3/11/87	S. Jones	READ UPDATED BLOCKS command	Still being revised -- see 87-63
X3T9.2/87-40	3/10/87	3/17/87	J. Semenek	REQUEST SENSE command changes	Implementors note about returned bytes added to Rev 1
X3T9.2/87-41	3/16/87	3/17/87	J. Semenek	MODE SENSE command changes	???
X3T9.2/87-42	3/10/87	3/18/87	G. Floryance	INQUIRY command enhancements	Greg is revising this -- Controller addressability issue
X3T9.2/87-43 Rev 2	3/10/87	9/4/87	G. Floryance	Revised Common READ LOG command	This proposal was translated to WordStar by L. Lamers
X3T9.2/87-44	3/10/87		D. Kinsell	Cabling requirements	Parts have been accepted
X3T9.2/87-45	3/10/87	3/16/87	M. Brown	SCSI-2 Optical command set	March W.G. rejected most of this -- Remainder???
X3T9.2/87-46	3/10/87	3/15/87	P. Nitza	SCSI command queuing	See 87-59
X3T9.2/87-47	3/10/87	3/14/87	D. Loski	Certification Pattern	Sent to May W.G. (which deferred it -- Daniel not present)
X3T9.2/87-48	3/10/87	3/14/87	D. Loski	MODE SENSE options page Ah	See 87-130
X3T9.2/87-49	3/10/87	3/10/87	J. McGrath	Command Queuing proposal	See 87-59
X3T9.2/87-50	3/10/87	3/6/87	R. Snively	Compatibility Philosophy between SCSI & SCSI-2	Included in the Scope of SCSI-2 Rev 1
X3T9.2/87-51	3/10/87	3/9/87	R. Snively	Clarification of Invalid LUN	Some of this is in SCSI-2 Rev 1 -- Does it need further work?
X3T9.2/87-52 Rev 1	3/10/87	8/13/87	R. Snively	Asynchronous event notification	
X3T9.2/87-53 Rev 1	4/27/87	4/9/87	R. Snively	Appendix on Power-On protocols	Sent to May W.G. (which deferred it)
X3T9.2/87-54	3/10/87	3/13/87	R. Snively	Full command queuing proposal	See 87-59
X3T9.2/87-55	3/10/87	3/10/87	R. Snively	Clarification of BUS FREE definition	Included in SCSI-2 Rev 1 -- Still question of wording clarity
X3T9.2/87-56	3/22/87	3/21/87	J. Lohmeyer	SCSI-2 Ad-Hoc Minutes March 18-20, 1987 Tempe, AZ	N/A
X3T9.2/87-57	3/22/87	3/15/87	C. Warren	Ltr to J. Lohmeyer on P-1134 Status and Printer Proposal	
X3T9.2/87-58	3/26/87	3/20/87	G. Houlder	May 18-20, 1987 Working Group meeting notice	N/A
X3T9.2/87-59 Rev 2	6/22/87	6/16/87	Queuing W.C.	Command Queuing proposal for SCSI-2	Addresses issues identified by W.G.

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Document	Int Date	Doc Date	Author	Description of Document	Resolution
X3T9.2/87-60	4/10/87	4/15/87	P. Boulay	(rev from 87-46, -49, 54) SCSI-2 Identification of REQUEST SENSE response	Sent to W.G. for review (part of level/version issue)
X3T9.2/87-61	4/10/87	4/16/87	P. Boulay	SCSI-2 Broadcast capability	Withdrawn by Paul
X3T9.2/87-62	4/27/87		G. Milligan	SHD Connector Presentation--Made at 4/27/87 meeting	Gene authorized to make correction during final edit
X3T9.2/87-63	4/27/87	4/20/87	S. Jones	READ UPDATED BLOCKS Command Proposal (Revised from 87-39)	Skip to revise to make mult block optional
X3T9.2/87-64	4/27/87	4/20/87	S. Jones	Operating modes after hard RESET	Accepted
X3T9.2/87-65 Rev 1	4/27/87	5/21/87	B. Spence	Terms for a tape glossary	Sent to working group for review
X3T9.2/87-66	4/27/87	4/27/87	B. Spence	Tape Write EOT Sense Key (Propose: VOLUME OVERFLOW)	Accepted
X3T9.2/87-67	4/27/87	4/1/87	D. Tolmie	Minutes IPI/SCSI Higher Speed Working Group	Another working group scheduled for 5/14-15/87
X3T9.2/87-68	4/27/87	4/24/87	L. Domsly	Proposed Sequential-Access density codes (QIC-150,-300,-600)	Accepted
X3T9.2/87-69	4/27/87	4/17/87	S. Goldman	Wide SCSI text to accompany 87-36 for an appendix	Sent to W.G. for review (Deferred -- Steve not present)
X3T9.2/87-70	4/27/87	4/23/87	D. Davies	Resolution of reservation problem in the COPY command	Rejected--Multi-Init systems can avoid problem by using RESERVE
X3T9.2/87-71	4/20/87	5/21/87	A. Girtton	X3T9.2 (#69) & X3T9.3 (#61) joint minutes April 27-28, 1987	N/A
X3T9.2/87-72	4/20/87	4/1/87	J. Hoy	Optical Disk proposed 12-byte command set	Sent to W.G. for review (Deferred -- John not present)
X3T9.2/87-73	5/14/87	5/6/87	J. Hoy	Section 15 with commands in Alphabetical Order	
X3T9.2/87-74	5/10/87	5/15/87	S. Jones	Revised Media Changer Proposal from Working Group	To be reviewed at Vancouver (Skip to add Model Info)
X3T9.2/87-75	5/10/87	5/13/87	R. Weber	Miscellaneous Sequential-Access comments	See W.G. minutes (87-80) item 21.
X3T9.2/87-76 Rev 1	6/22/87	6/10/87	P. Nitza	Auto Sense and MODE SELECT/SENSE Target Option Proposal	Revised -- see W.G. minutes (87-80) item 22.
X3T9.2/87-77 Rev 1	6/22/87	6/20/87	P. Nitza	INQUIRY Peripheral Device Type Proposal	Accepted with changes -- This is the revision
X3T9.2/87-78	5/18/87	5/8/87	R. Schultz	Miscellaneous corrections to SCSI-2 Rev 1	Some accepted, others stimulated much debate see 87-80 item 23
X3T9.2/87-79	5/18/87	3/25/87	E. Hunt	Proposed Rewording of Section 9.1.8 (Page 9-15 in Rev 0)	Accepted for inclusion in Rev 2
X3T9.2/87-80	5/18/87	5/20/87	J. Lohmeyer	Minutes of SCSI-2 Working Group May 18-20, 1987	N/A
X3T9.2/87-81				Void -- Document Number not assigned	
X3T9.2/87-82	5/19/87	5/7/87	R. Schultz	Merged Tape and Disk Additional Sense Codes	See W.G. minutes (87-80) item 17.
X3T9.2/87-83	5/19/87	5/18/87	A. Kozlowski	Certification Pattern Page 6 of MODE SELECT/SENSE	Initialization pattern added to FORMAT UNIT in Rev 2
X3T9.2/87-84	5/19/87	5/18/87	A. Kozlowski	Peripheral Device Type for Direct-Access Tape Devices	Deferred to July W.G.
X3T9.2/87-85	5/26/87	5/25/87	J. Stal	July SCSI-2 Working Group Meeting Notice	N/A
X3T9.2/87-86	5/26/87	5/7/86	G. Milligan	SHD Connector Corrections for	Corrections will be made during the

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Document	Ent Date	Doc Date	Author	Description of Document	Resolution
X3T9.2/87-87	6/4/87	4/21/87	C. Kachurik	X3.91M-1987 final edit Order Form for revised Master Plan SD-1, May 1987, Rev 1	final edit. N/A
X3T9.2/87-88	6/10/87	6/9/87	B. Spence	Immediate bit in Tape WRITE FILEMARKS and VERIFY Commands	Accepted
X3T9.2/87-89	6/19/87	6/19/87	J. Patton	Potential Flaw Management Problem	See 87-120
X3T9.2/87-90	6/22/87		L. Lamers	X3T9.2 (#70) & X3T9.3 (#62) Joint Minutes June 22-23, 1987	N/A
X3T9.2/87-91	6/22/87	6/19/87	P. Nitza	MODE SELECT Error Recovery Parameter Combinations	
X3T9.2/87-92	6/22/87	6/19/87	G. Stephens	SCSI Interface Redefined Similarly to IPI Level 1	To be held over for SCSI-3 consideration
X3T9.2/87-93	6/22/87	6/19/87	G. Stephens	Sequential Access Device Position Definition	
X3T9.2/87-94	6/22/87	6/21/87	D. McIntyre	REASSIGN BLOCKS revision	Included in Rev 2
X3T9.2/87-95	6/22/87	6/19/87	G. Stephens	MODE SELECT Changes Causing a UNIT ATTENTION condition for Tape Devices	
X3T9.2/87-96	6/22/87	6/19/87	G. Stephens	Revised Tape Model Text	
X3T9.2/87-97	6/22/87	6/22/87	D. Davies	Clarification of Additional Sense Codes for BLANK CHECK	
X3T9.2/87-98 Rev 1	6/22/87	8/17/87	D. Davies	Proposed Buffered Mode for Deferred Error Handling	
X3T9.2/87-99	6/30/87	6/30/87	R. Schultz	Terminator Power	
X3T9.2/87-100	6/30/87	7/1/87	R. Schultz	Media Changer Issue	
X3T9.2/87-101	7/1/87	7/1/87	D. Skinner	Tape buffer control (size and EOT handling)	Accepted
X3T9.2/87-102	7/1/87	7/1/87	D. Skinner	Proposal on discarding VOLUME OVERFLOW data	Accepted
X3T9.2/87-103 Rev 1	8/13/87	8/13/87	J. Lohmeyer	MCR Printer Proposal for SCSI-2	
X3T9.2/87-104	7/10/87	7/10/87	J. Lohmeyer	SCSI-2 Working Group Notice -- Aug 31 - Sept 2	N/A
X3T9.2/87-105 Rev 1.3	7/10/87	5/18/87	D. Allan	Enhanced Small Device Interface (ESDI) Working Draft Document	X3T9.3 plans to forward this document August 1987
X3T9.2/87-106	7/11/87	6/30/87	L. Lamers	Proposal for CD-ROM in SCSI-2	
X3T9.2/87-107	7/12/87	7/15/87	J. Lohmeyer	Minutes of SCSI-2 Working Group July 13-15, 1987	N/A
X3T9.2/87-108	7/13/87	7/10/87	G. Stephens	Buffer Device Recovery after CHECK CONDITION	
X3T9.2/87-109	7/13/87	7/9/87	B. Spence	Additional Concerns RE IMMEDIATE-BIT Operations	
X3T9.2/87-110	7/13/87	7/7/87	D. McIntyre	SCSI-2 Group 1, 2, and 5 Command Descriptor Blocks	
X3T9.2/87-111	7/13/87	7/13/87	J. Stal	WRITE AND VERIFY command new wording	
X3T9.2/87-112	7/13/87	7/14/87	J. Stal	FORMAT UNIT command new wording	
X3T9.2/87-113	7/13/87	6/10/87	R. Weber	Sequential-Access Device Recoverable Error Counters	
X3T9.2/87-114	7/13/87	7/10/87	R. Weber	Corrections to Additional Sense Codes for Sequential-Access Devices	
X3T9.2/87-115	7/13/87	7/10/87	M. Eneboe	Flexible Disk Drive I/F, Pin 1 Definition - MODE SENSE/SELECT, Page	

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Document	Ent Date	Doc Date	Author	Description of Document	Resolution
X3T9.2/87-116 Rev 1	7/21/87	7/15/87	D. Anderson	Passing Media Initialization Pattern during FORMAT UNIT command	Rev 1 included in SCSI-2 Rev 2
X3T9.2/87-117	7/13/87	7/7/87	P. Johansson	Proposed Addition to the INQUIRY Command	
X3T9.2/87-118	7/13/87	7/13/87	J. Schuessler	Wide SCSI Cabling Proposal	
X3T9.2/87-119	7/13/87	7/9/87	B. Raudebaugh	Additions to the Automatic Medium Changer proposal	
X3T9.2/87-120	7/13/87	7/13/87	J. Patton	TRANSLATE command proposal	
X3T9.2/87-121 Rev 1	7/17/87	9/4/87	L. Lamers	File Name Conventions	N/A
X3T9.2/87-122 Rev 2	7/17/87	8/31/87	J. McGrath	MODE SELECT command modifications	
X3T9.2/87-123	7/18/87	6/8/87	Dal & J. Ullal	High Speed WG meeting notice & minutes of May WG	
X3T9.2/87-124	7/21/87	6/15/87	C. Kachurik	Revision 1 to SD-2, Organization and Procedures	N/A
X3T9.2/87-125 Rev 1	7/23/87	8/12/87	J. Lohmeyer	SCSI-2 Vendor Identification Codes for INQUIRY Data	
X3T9.2/87-126	8/10/87	8/9/87	P. Nitza	SEND/RECEIVE DIAGNOSTIC commands with Translate Page	
X3T9.2/87-127	8/10/87	8/8/87	P. Nitza	INQUIRY Command with VPD information	
X3T9.2/87-128	8/10/87	8/6/87	P. Nitza	SEARCH Command Modifications	
X3T9.2/87-129	8/10/87	7/27/87	P. Nitza	MODE SELECT/SENSE Verify Error Recovery Page	
X3T9.2/87-130	8/10/87	8/10/87	P. Nitza	Target Implemented Options in INQUIRY and MODE SELECT/SENSE	
X3T9.2/87-131	8/12/87	8/12/87	P. Boulay	MODE SELECT Implementation problems using COPY	
X3T9.2/87-132	8/12/87	8/11/87	H. Waltersdorf	Comments on ESDI connector drawings	
X3T9.2/87-133	8/13/87	8/14/87	G. Marazas	Proposal for a high-density shielded SCSI-2 connector	
X3T9.2/87-134	8/14/87	8/5/87	R. Cummings	Minutes of IPI/HSC Working Group -- July 16-17, 1987	
X3T9.2/87-135	8/14/87	9/4/87	Nitza/Lohmeyer	X3T9.2 Meeting #71 Minutes -- Aug 17-18, 1987	N/A
X3T9.2/87-136	8/17/87	8/13/87	R. Snively	Study of IPI-SCSI queuing functions	
X3T9.2/87-137	8/17/87	8/12/87	R. Snively	Programmable Control of SCSI operating mode	
X3T9.2/87-138	8/17/87	8/17/87	J. Schuessler	Fast SCSI	
X3T9.2/87-139 Rev 1	8/17/87	8/27/87	D. Appleyard	Additions to READ POSITION command for Sequential Access Devices	
X3T9.2/87-140	8/17/87	8/13/87	G. Milligan	Review of ESDI X3T9.3/87-005 Rev 1.3	
X3T9.2/87-141	8/17/87	8/12/87	D. Allan	Comments on ESDI Document X3T9.3/87-005 Rev 1.3	
X3T9.2/87-142	8/17/87	8/17/87	D. Tolmie	HSC Goals and Assumptions	
X3T9.2/87-143	8/17/87	8/17/87	E. Reynolds	AMP AMPLIMATE .050 Series Connectors	
X3T9.2/87-144	8/17/87	8/14/87	D. Appleyard	Additions to the Automatic Medium Changer Command Set	
X3T9.2/87-145	8/18/87	8/17/87	E. Hunt	Request for assignment of a Sequential Access Density Code	Sent to Working Group
X3T9.2/87-146	8/25/87	8/31/87	J. Stal	Revised Optical Sections	

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Document	Ent Date	Doc Date	Author	Description of Document	Resolution
X3T9.2/87-147	8/25/87	8/26/87	B. Spence	Codification of TEST UNIT READY returned Status and Sense Data	
X3T9.2/87-148	8/27/87	8/25/87	J. Schuessler	Twisted Pair Cable Specification and Fast SCSI Changes	
X3T9.2/87-149	9/1/87	8/28/87	P. Johansson	Differentiation of Controller BUSY and LUN BUSY	
X3T9.2/87-150	9/1/87	8/28/87	P. Johansson	Translate Page In SEND/RECEIVE DIAGNOSTIC Commands	
X3T9.2/87-151	9/1/87	8/28/87	P. Johansson	Management of the "Grown" Defect List	
X3T9.2/87-152	9/1/87	8/27/87	D. Appleyard	Response to REQUEST SENSE before CHECK CONDITION has been reported	
X3T9.2/87-153	9/1/87			Minutes of SCSI-2 Working Group Meeting Aug 31 - Sept 2, 1987	
X3T9.2/87-154	9/1/87	9/1/87	D. McIntyre	Clarification of Synchronous Data Transfer Negotiation	
X3T9.2/87-155	9/1/87	8/25/87	R. Weber	Ending Extended Contingent Allegiance	
X3T9.2/87-156	9/1/87	8/30/87	J. McGrath	Reordering of Commands in Command Queuing	
X3T9.2/87-157	9/1/87	8/30/87	J. McGrath	Providing Initiators with Zoning (or Notched Drive) Information	
X3T9.2/87-158	9/1/87		G. Houlder	Proposed Additional Sense Code Table for Section 8	
X3T9.2/87-159	9/1/87	8/27/87	S. Jones	Self Configuration Errors	
X3T9.2/87-160	9/1/87	9/8/87	J. Stal	Working Group Cabling Report	