

Approved Agenda
X3T9.2 Meeting #75
April 25-26, 1988
St. Petersburg Beach, FL

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Draft Minutes
X3T9.2 Meeting #75
April 25-26, 1988
St. Petersburg Beach, FL

1. Opening Remarks

John Lohmeyer, the Chairman, called the meeting to order at 9:00 a.m., Monday April 25, 1988. He thanked Charles Brill of AMP for hosting the meeting in sunny Florida. He also thanked Classic Conferences for arranging the meeting.

As is customary, each of the attendees introduced themselves. A copy of the X3T9.2 membership list was circulated for attendance and corrections. Copies of the draft agenda, the recent document register, and information on X3T9.2 were made available to all attendees. Application forms for membership and mailings were made available to the new attendees.

2. Approval of Agenda

The draft agenda was approved with the following additions:

- 8.3.7 Wide Data Transfer Request (Allan)
- 8.3.8 Clarification of SDTR protocol
- 8.4 SIWG on embedded cache disk parameters
- 10.5 Patent issue on the AMP high-density connector (X3T9.2/88-034)
- 10.6 Vendor Unique block address on CD-ROM

3. Attendance and Membership

Membership requirements were reviewed. The Chairman stated that three organizations had requested membership since the last meeting. Cinch connectors will be represented by William Cover and John Guennewig. DEST Corp. will be represented by Terence Chua and Jeff Seideman. JAE Electronics will be represented by Martin Pullam and Ken Tsukinari.

New members at the meeting were Bart Raudebaugh of Cygnet and David Goodman of ITT Cannon.

Enclosure (1) is the list of attendees at the meeting. Enclosure (2) is the X3T9.2 membership changes since the last minutes and enclosure (3) is the current X3T9.2 membership list.

3.1 Roll Call of Members in Jeopardy

The Chairman stated that he had sent jeopardy letters to all representatives of the following organizations: Archive Corp., Data General Corp., EG&G WASC, Inc, ICL, and Intergraph Corp.

The letters said that these organizations failed to attend two of the last three plenary meetings and that their membership would be terminated unless they attended the April plenary meeting.

The Chairman stated that he had received a letter from Arnold Roccatti saying that he would not be able to attend in the near future due to budgetary problems. X3T9.2 will miss Arnold's participation.

Representatives were present from all of the organizations in jeopardy except EG&G WASC which will be changed to Observer status.

4. Approval of Minutes - Feb. Meeting Phoenix (X3T9.2/88-020)

Two corrections were offered:

In the last paragraph of 8.2.2, add a statement saying that the CHANGE DEFINITION command no longer has a DATA IN phase.

In 10.4, indicate that the vote was a straw poll.

The minutes of the Phoenix meeting were approved as corrected. revised minutes will be placed on the SCSI Bulletin Board, but will not be re-distributed.

5. Document Distribution

The following new documents were distributed at the meeting:

Document	Doc Date	Author	Description of Document
X3T9.2/87-192 Rev 2	4/24/88	J. Semenak	Proposal on returning additional BUSY information
X3T9.2/88-37	4/18/88	B. Spence	Synchronous ACK Edge Proposal
X3T9.2/88-38	4/23/88	J. McGrath	Rev 4 Issues - Sections 7 and 8
X3T9.2/88-39	4/18/88	B. Weber	Proposed clarification to ESDI
X3T9.2/88-41	4/25/88	D. Davies	READ SILI Implementation Requirement
X3T9.2/88-44	4/25/88	P. Boulay	WORM Device Specific MODE SELECT Page
X3T9.2/88-46	4/22/88	R. Liu	MODE SELECT/SENSE Cache Control Page
X3T9.2/88-47	4/22/88	R. Schlitzkus	FORMAT TRACK Command for Floppy Disk Drives
X3T9.2/88-48		C. Brill	Pin Assignments for High-Density Connectors
X3T9.2/88-49	4/23/88	J. McGrath	Proposed Read Caching Page

Enclosure (4) is the current 1988 document register.

5.1 New Document Distribution Procedures

The Chairman stated that the new document distribution system had been used for the last mailing. As insurance against major glitches he had distributed a redundant mailing to the Principal members only. Most members had received their mailings from the X3 Secretariat two weeks prior to the meeting. He thanked Del Shoemaker for his efforts in making the new document distribution system a success.

There was one problem with the new mailing system. Almost universally, the mailings arrived in damaged envelopes. The Chairman's mailing was so badly damaged that the Postal Service wrapped it in plastic to keep the contents from falling out. He stated that this problem should be temporary because the copying service will do the future mailings, hopefully with stronger envelopes.

The X3 Secretariat now maintains the database of who gets the committee mailings. The Chairman plans to continue maintaining a committee database for attendance purposes and for non-scheduled mailings. He sends change information to the X3 Secretariat bimonthly (shortly after each plenary meeting). Thus changes made on the attendance sheet are sent to the Secretariat. However, there is no guarantee how promptly the Secretariat processes this data. Therefore it is best to write to the Secretariat with any important changes. Please copy the Chairman on such correspondence.

6. Liaison Reports

6.1 ISO

Gene Milligan gave the ISO liaison report. The ISO delegates need to establish positions on consideration of withdrawal of RDI, timing and method of EDSI submittal, submittal of IPI communications and submittal of IPI-2 tape. These positions must be established before the end of the June plenary meeting.

Dal Allan provided the technical editor's response to the comments on DIS-9318 (IPI Physical), DIS 9319 (IPI-2 Disk), and DIS 9320 (IPI-3 Disk) documents.

Francis Schrotter agreed to submit the SMD-E document to ISO for fast track publication without addressing the ISO/ANSI publication conflicts. The ISO document may be an exact copy of the ANSI document. SMD-E calls out references to prior publications which do not exist in international form. This issue has not been resolved.

7. Review of Old Action Items

- 7.1 Larry Lamers will reword section 5 to clarify that the initiator cannot send multiple groups of messages during a single MESSAGE OUT phase. Completed at the working group, see 88-009 R1.
- 7.2 Paul Boulay will review the archival vs. update issue for WORM optical media. Complete see 88-004.
- 7.3 Bob Snively will investigate compatibility issues of non-queued targets with queued initiators. Dropped, no issues.
- 7.4 Gary Stephens will propose revised wording in the retry counts and algorithms of REQUEST SENSE and MODE SELECT. Reassigned to Dan Davies.
- 7.5 John Lohmeyer will take the SCSI-3 project proposal (X3T9.2/87-193 Rev 1) to X3T9. Complete: X3T9 plans to take a meeting vote on this Project Proposal April 29.
- 7.6 Steve Goldman will research cables and pin assignments for new high-density connectors. Completed, see 88-048.

- 7.7 Charles Brill will provide the editors with the eight drawings needed for the high-density connector. Complete: The drawings were combined so that only four drawings were necessary.
- 7.8 Larry Lammers will move bit 0 to bit 2 in the WRITE SAME CDB. Bit 0 will be reserved. Carry over: WRITE SAME needs to be reviewed by the General Editor.
- 7.9 Dexter Anderson will develop proposed wording for resolving the message protocol issues. Complete -- See 88-009 R1.

8. Working Group and Project Status Reports

8.1 ESDI

Due to delays in getting the ESDI document to the X3 Secretariat and delays in the X3 Secretariat's office, ESDI still has not started its first public review. Once the X3 Secretariat discovered the delay, it was rushed to SPARC where it passed its compliance review. It is now ready to go to ANSI to announce the public review in "Standards Action", a publication of ANSI. This publication is part of the "ANSI Reporter".

John Lohmeyer spoke about an issue concerning how the intersector gap is spread before and after the Index/Sector pulse. Document 88-039 from Bret Weber of NCR describes the proposed change. This issue turned out to be somewhat controversial in that Bob Snively objected citing that the proposed change would create difficulties with those devices that support Count/Key/Data format. These devices negate Write Gate upon encountering the Index pulse and then assert Read Gate to read the first sector. Thus he felt the Write-to-Read time should remain defined as the ISG time after Index/Sector. John Lohmeyer agreed to discuss the issue with Bret Weber and to submit a public review comment if NCR still feels that the change is necessary.

Gene Milligan voiced a concern that Appendix K in ESDI recommends using a phone plug connector that may be affected by the Stewart Stamping patents. The proposed licensing arrangement in the Stewart Stamping letter clearly does not conform to the ANSI patent policy. He did not want to incur the risk of a patent problem over a recommended connector in an appendix.

Gene Milligan moved that the editor be instructed to remove the last paragraph of Appendix K which references a preferred connector for synchronized spindles in the ESDI document prior to public review. Bob Mortensen seconded the motion. The motion passed unanimously.

Another ESDI issue concerned the list of vendor ID codes and the statement saying that additions to the list can be made by contacting the document editor. This issue is similar to the SCSI-2 registration authority issue that has been pending at X3T9 for over a year. John Lohmeyer accepted an action item to bring up registration authority issue at X3T9 again. It was agreed that the list should be identified as the current list as of publication and that the appropriate person to contact for additions should be the X3T9 Chairman (until we receive

X3T9 guidance).

A motion to request X3T9 to substitute the draft ESDI dpANS with one that contains the following corrections and clarifications passed unanimously:

Remove the Appendix K connector recommendation per the Milligan motion.

Revise the vendor registration contact point from "the document editor" to "the X3T9 Chairman".

Make typographical corrections which were identified.

Dal Allan accepted an action item to prepare revision 2.A of ESDI and to send an original copy to John Lohmeyer.

8.2 Flexible Disk

There was no report on this project.

8.3 SCSI General Working Group (X3T9.2/88-031)

An SCSI-2 Working Group meeting was held March 7-9, 1988 in Newport Beach, CA with 30 attendees. The meeting was hosted by Jeff Stai of Western Digital. The minutes were distributed in the March mailing (X3T9.2/88-031). Dal Allan reported the highlights of the meeting. The following items were identified by the Working Group as requiring plenary discussion.

8.3.1 ECA control bit in MODE SELECT/MODE SENSE

The working group noticed that the Extended Contingent Allegiance description in section 6 refers to a ECA enable bit in MODE SELECT/SENSE, but no such bit exists. The question was, "Do we drop the reference or add the bit?" The committee felt that the bit should be added. Jim Semenak accepted an action item to find a place for the bit.

8.3.2 AEN enable/disable

An editorial review is needed for consistency of the AEN implementation requirements in document. The document should clarify that using UNIT ATTENTION condition is a viable alternative to AEN in most situations.

Perhaps an implementors note is needed in the AEN description to explain why AEN is needed. Paul Boulay accepted an action item to develop wording.

8.3.3 MODE SELECT changes to non-changeable parameters

Gene Milligan made a motion as follows: If the initiator attempts to send a value to a MODE parameter field that is not changeable (as reported by the target in a MODE SENSE command requesting

changeable values) and that value is different from the value returned in a MODE SENSE command requesting current values, the target shall either:

- (1) ignore the new value and complete the command with GOOD status.
- (2) terminate the command with CHECK CONDITION status, set the sense key to ILLEGAL REQUEST, and set the additional sense code to INVALID FIELD IN PARAMETER LIST.

Dan Davies moved and Larry Lamers seconded to amend the motion to add a third alternative as follows:

- (3) Terminate the command with a CHECK CONDITION status and set the sense key to RECOVERED ERROR.

Both the amendment and the main motion failed. The net effect is that targets must report CHECK CONDITION status and ILLEGAL REQUEST sense key to attempts to change nonchangeable parameters.

A straw vote was taken on whether targets should be permitted to alter any parameters if CHECK CONDITION status and ILLEGAL REQUEST SENSE key are returned on a MODE SELECT command. 4 were in favor of permitting the target to alter parameters in such a case and 22 were opposed.

8.3.4 Only report current values in MODE SENSE?

It was suggested that reporting default/saved/changeable values in MODE SENSE is not especially valuable and leads to considerable difficulty in properly documenting the MODE SENSE command. The working group is soliciting input on whether SCSI-2 could just document the return of current values, leaving support of the other values open for compatibility with CCS.

John Lohmeyer reported that most feedback received on the SCSI Bulletin Board was favorable on making this change, except for one message from Gerry Houlder. Gerry is strongly opposed to the change.

A straw vote regarding what should be done with the description of Saved/Default/Changeable parameters was taken with the following results:

1. Move to appendix: 3 in favor
2. In body of document & optional: 14 in favor
3. In body of document & mandatory: 13 in favor
4. Delete altogether: 4 in favor

A second straw vote was taken regarding whether implementation of Saved/Default/Changeable parameters should be optional or mandatory if the MODE SENSE command is implemented:

Implementation optional: 13 in favor
Implementation mandatory: 16 in favor

8.3.5 Residues on WRITE FILEMARKS commands

Dan Davies elected to procrastinate on this issue until the next working group meeting.

8.3.6 Additional Sense Codes (X3T9.2/88-032)

John Lohmeyer prepared a spreadsheet on the current additional sense codes in SCSI-2. This spreadsheet shows many conflicts between device types. The editors removed the additional sense codes from Rev 4 until the conflicts are resolved.

The committee felt that the general direction should be to let the editors take their best shot at resolving these conflicts, cognizant of historical events. This topic was placed on the agenda for the next working group meeting. A discussion of the architectural considerations of sense keys and additional sense codes ensued.

John Lohmeyer moved that sense key Fh "SOME SENSE", be deleted from the SCSI-2 document. Dan Davies seconded the motion. The motion passed, 25 in favor, 0 opposed.

Bob Snively moved that the following wording be added to section 6.1: "The sense key, additional sense code, and additional sense code qualifier provide a hierarchy of information. [A description of this hierarchy will be provided by Steve Goldman.] The sense key is mandatory and presents generic information describing an error or unusual condition. An additional sense code is mandatory and if the condition is reported by the device, shall be provided with the specified code value. If the condition is not reported by the device, 00h is an acceptable additional sense code. The additional sense code qualifier is optional and refines the error description information provided in the additional sense code. If the condition is reported by the device the value must be as specified in this document. If the condition is not reported by the device, 00h is an acceptable additional sense code qualifier." Skip Jones seconded the motion. The motion passed, 26 in favor, 1 opposed.

Steve Goldman stated that the original intent was for the sense key to vector the software to a recovery procedure, for the additional sense code to be an index into an error table that allowed a message to be displayed to the operator, and for the additional sense code qualifier to be vendor specific and not specified in the standard.

Bill Homans in a late-in-the-day appeal for further architectural prostitution and logical disarray to protect his product's implementation persuaded the plenary to exchange the meaning of ASC-ASCQ 04-01 and 04-03 barring any objections stated at the next Working Group meeting.

8.3.7 Wide Data Transfer Request (Allan)

The Working Group questioned why the negotiation process for Wide SCSI is not the same as for Synchronous SCSI. The working group deferred discussion on this issue to the plenary meeting so that Steve Goldman could participate -- He had defined the Wide SCSI negotiation procedure.

Steve explained that the principal reason for the difference is that Wide SCSI only negotiates one value (the width) whereas synchronous SCSI negotiates two values (the transfer period and the REQ/ACK offset). The consensus was to add an implementors note to explain the difference. Steve Goldman accepted an action item to draft the note.

8.3.8 Clarification of SDTR protocol

Gene Milligan questioned the clarity of item 10 of the Newport Beach working group meeting. In particular, what happens when going through reset? Bill Spence accepted an action item to clarify the wording (yet again).

8.4 SIWG on Embedded Disk Cache parameters

A Special Interest Working Group (SIWG) meeting was held April 22 hosted by Jim McGrath of Quantum. This meeting was organized and chaired by Dal Allan, the Vice Chairman. The intent was to develop a proposal on a MODE page to control the relatively small caches that are being placed in embedded SCSI drives.

Steve Goldman disagreed with the assumption that the control parameters for a small cache are different from those of a large cache. He expressed dismay that he had not been informed of the meeting and that he was now placed in the position of having to argue against the SIWG's proposal.

A straw vote was taken on whether a Disk Cache Parameters page should be included in SCSI-2. 14 were in favor and 11 were opposed.

Those people interested in this topic planned to work via telephone and FAX to further develop the proposal. Another SIWG meeting may be necessary to finish the proposal, but no definite date or location was set.

9. Old Business

9.1 BUSY issue (short vs. long?) (X3T9.2/87-192 - Semenak)

Jim received several comments that he plans incorporate into a third revision of his proposal. The revision was to be reviewed at the next Working Group meeting.

9.2 Review of SCSI-2 Draft Document (X3T9.2/86-109 Rev 4)

Larry Lamers briefly highlighted the changes made in Revision 4 of SCSI-2. A more detailed review was planned for the Working Group meeting.

9.3 Pin assignments in SCSI-2 (X3T9.2/88-048)

The optimal pin assignments depend on whether 25 mil centerline ribbon cable can be built using 28 AWG wire. Enclosure (5) shows how such a cable would be constructed. Enclosure (6) shows how to transition between low-density and high-density connectors. AMP had contacted two cable manufacturers who said that such cable can be built, but that the insulation would have to be thinner than on 50 mil cable. This would mean that the cable would not be able to obtain a 300 volt rating which 50 mil cable has. A new style number would be required. No one saw any problem with a low-voltage rating.

Representatives from AMP and Honda indicated that there should not be any problems terminating such cable into their connectors.

The committee requested that AMP provide information on the fan tool used to mate the 25 mil center cable on the 50 mil center connectors.

A 3M representative stated the 25 mil flat cable using PVC insulation would have around 80 ohm impedance. A shield version would drop the impedance to around 45 ohms. Using teflon insulation would increase the impedance to around 90 ohms for non-shielded cable. Also cross-talk would increase if the rise times are short.

AMP had prepared a document (88-048) showing the recommended pin to conductor assignments along with the signal assignments. Several corrections to the signal assignments were made during the course of discussion. Ed Gardner accepted an action item to revise this document per the discussion and to provide an electronic copy to John Lohmeyer.

10. New Business

10.1 Proposed withdrawal of the Rigid Disk Interface (X3.101-1984)

John Lohmeyer reported that X3T9 intends to not re-affirm X3.101-1984, the Rigid Disk Interface (RDI), since this standard is not being widely used. Furthermore, X3T9 intends to withdraw this standard from consideration at ISO. James Whitworth of Priam indicated that they still ship a product with the RDI to one customer. No other usage of RDI was identified.

Gene Milligan moved that X3T9.2 recommend that X3.101-1984 be withdrawn as a future ANSI standard and that RDI be withdrawn as a proposed ISO standard. Dal Allan seconded the motion. Motion passed 23 in favor, 1 opposed.

10.2 Low-density connectors for Cable B

There was insufficient interest to pursue this alternative.

10.3 Review of new documents

The authors of new documents were given time to introduce their proposals.

Jim Semenak's proposal on returning additional BUSY information (87-192 Rev 2) was discussed under agenda item 9.1. Jim plans to prepare revision 3 for the Working group meeting.

Bill Spence's proposal on adding an implementors note concerning synchronous ACK edges (88-037) was accepted for Rev 5 of SCSI-2.

Jim McGrath's comments of SCSI-2 Rev 4 (88-038) were remanded to the Working Group.

Bret Weber's proposal on the intersector gap in ESDI (88-039) was discussed under agenda item 8.1. NCR will review this issue and possibly submit a public review comment on ESDI.

Dan Davie's READ SILI proposal (88-041) was reviewed with the result that an implementors note will be included to warn that length information may not be available. Dan Davies accepted an action item to draft this implementors note.

Paul Boulay's proposal on WORM Device-Specific MODE page (88-044) was remanded to the working group. This page would provide the necessary controls to deal with the archive vs. update issue.

Robert Liu's proposal on Cache Control MODE page (88-046) was included in 88-049 at the embedded cache SIWG.

Ron Schlitzkus introduced a proposal to add a FORMAT TRACK command (88-047) for flexible disks. Previous proposals to include such a command have been rejected because of difficulties in dealing with the track concept when all other addressing is in logical blocks. The proposal was deferred pending further review.

Jim McGrath's proposal on a Read Caching page is covered under agenda item 8.4.

10.4 Agenda for Minneapolis Working Group

The following agenda was drafted for the Minneapolis working group meeting. It consists of carry-over items from the last working group meeting plus new items recently submitted. Items are prioritized by SCSI-2 vs. SCSI-3.

Agenda Items for SCSI-2

1. Additional Sense Code resolution
2. [] bracket removal
3. Review of S2R4
4. Rev 4 Issues - Sections 7 and 8 [88-38] (J. McGrath)
5. WORM Device Specific MODE SELECT Page [88-44] (P. Boulay)
6. Pin assignments for high density connector B
7. ACCESS LOG proposals (Spence)
8. Long vs. Short BUSY [87-192R3] (Semenak)
9. RECOVER BUFFERED DATA command for sequential access devices [88-022] (Appleyard)
10. Residues on WRITE FILEMARKS commands (Davies)
11. MODE SELECT rewording on saving pages and nonchangeable parameters [88-027] (Houlder)
12. Proposed definition of caching [88-030] (McGrath)
13. Wide Data Transfer Request (Goldman)
14. Embedded Disk Cache parameters [88-049] (McGrath)

Agenda Items for SCSI-3

50. SEND DIAGNOSTIC Pages [87-186] (Spence)
51. LOAD SKIP MASK command proposal [87-203] [87-217] (Floryance, McIntyre)
52. More than 8 devices on wide SCSI [87-206] (Harms)
53. Search Command modifications [88-002] (Stai)
54. Expanded RelAddr Bit [88-007] (Boulay)

10.5 Patent issue on the AMP high-density connector (X3T9.2/88-034)

John Lohmeyer stated that he had received a copy of a letter from Martin G. Raskin, an attorney for Stewart Stamping Corporation to the president of AMP, Incorporated. The letter was included in the mailing as X3T9.2/88-034. The letter claims that AMP infringes two of Stewart's patents (4,641,901 and 4,653,837) with its AMPLIMITE connectors which were selected for the SCSI-2 draft standard. The letter does not state whether Stewart believes that the other vendors of compatible parts also infringe their patents or whether it is necessary to infringe their patents in order to comply with the draft standard.

A letter from AMP (document 88-045) was received by the committee stating that AMP did not infringe on the Stewart patents.

After some discussion no action was taken.

10.6 Vendor Unique Block Address for CD-ROM

There was considerable discussion over whether MSF addressing should be included in the CD-ROM command set. Larry Lamers defended the MSF addressing, especially for audio commands, because this is the fundamental addressing of the media. Others argued that this is comparable to including CHS addressing for Direct-Access devices. No closure was reached on this issue.

It was agreed that section 13 should be re-named CD-ROM devices instead of Read-Only devices.

Paul Boulay accepted an action item to become the editor of this section and revise some of the objectionable terminology.

11. Review of Action Items

- 11.1 Dan Davies will propose revised wording in the retry counts and algorithms of REQUEST SENSE and MODE SELECT.
- 11.2 Larry Lamers will review the changes made in the WRITE SAME CDB. He was previously assigned to move bit 0 to bit 2 in the WRITE SAME CDB and to reserve bit 0. In Rev 4, Bit 0 is RelAddr and Bit 2 is reserved.
- 11.3 Dal Allan will prepare ESDI rev 2.A and mail an original to John Lohmeyer.
- 11.4 John Lohmeyer will request X3T9 to substitute ESDI Rev 2.A for Rev 2.0 for the public review.
- 11.5 John Lohmeyer will seek X3T9 resolution on the registration authority issue.
- 11.6 Jim Semenak will find a home for the ECA control bit.
- 11.7 Paul Boulay to reword the AEN and unit attention paragraph.
- 11.8 Steve Goldman to draft an implementors note clarifying the differences between synchronous and wide negotiation procedures.
- 11.9 Ed Gardner will revise the pin assignments for wide SCSI to reflect the changes made at the St. Petersburg Beach meeting.
- 11.10 Paul Boulay will revise the CD-ROM section of SCSI-2.
- 11.11 Steve Goldman will provide a description of the sense key, additional sense code, and additional sense code qualifier hierarchy.
- 11.12 Bill Spence will further clarify the SDTR wording.
- 11.13 Ed Gardner will revise 88-048 (pin assignments) and send an electronic copy to John Lohmeyer.

11.14 Dan Davies will draft an implementors note warning that length information may not be available when using the SILLI bit.

12. Meeting Schedule

The next meeting of X3T9.2 will be June 20-21, 1988 at the Embassy Suites hotel in San Jose, CA (408) 942-0400 hosted by AMD. Please mention "X3T9/AMD" when making reservations to receive the special room rate of \$99.00 plus tax. This rate includes a full cooked-to-order breakfast as well as two hours of complimentary cocktails each evening. The cut-off date for room reservations is May 30, 1988.

The X3T9.2 plenary meeting schedule for the remainder of 1988 is:

August 15-16, 1988	Colorado Springs, CO	at the Antlers Hotel
October 10-11, 1988	Boston, MA	[Date Changed]
December 5-6, 1988	San Diego, CA	

12.1 1988 General Working Groups

The proposed X3T9.2 general ad-hoc meeting schedule for 1988 is:

May 9-11, 1988	Minneapolis, MN	Gerald Houlder (see 88-019)
July 11-13, 1988	Boise, ID	Dave McIntyre
August 29-31, 1988	San Jose, CA	
November 7-9, 1988	Austin, TX	Bill Spence

A fiber optic physical layer for IPI and SCSI study group meeting will be held June 2-3 at AMD. Please contact Jayshe Ullal at (800) 538-8450 for details.

13. Adjournment

The meeting was adjourned at 16:30, Tuesday, April 26, 1988.

Meeting Attendees - Enclosure (1)

Name	Status	Organization
Mr. Anthony Kozlowski	P	3M Company
Mr. Robert C. Herron	A	3M Company
Mr. John Knudson	S	3M Company
Mr. Jim Fiala	V	3M Company
Mr. Jeff Morgan	V	3M Company
Mr. Jerry L. Amstutz	P	A.C.T./Shugart
Mr. Robert N. Snively	P	Adaptec, Inc.
Mr. Jochen Polster	P	Advanced Micro Devices
Mr. Charles Brill	P	AMP, Inc.
Mr. Bob Whiteman	O	AMP, Inc.
Mr. C. Edward Reynolds	O	AMP, Inc.
Mr. Louis C. Domshy	P	Archive Corp.
Mr. George Reichenberg	A	Aspen Peripherals
Mr. James J. Semenak	P	AT&T
Mr. Philip J. Puglisi	O	AT&T
Mr. Paul Kellogg	O	AT&T
Mr. Christian Mollard	O	BULL Systems
Mr. David Barnum	P	Burndy Corp.
Mr. John Guennewig	A	Cinch Connectors
Mr. Dan Davies	P	Cipher Data Products, Inc.
Mr. David Thomas	A	Cipher Data Products, Inc.
Ms. Beth Stephens	A	Cipher/Optimem
Mr. Bill Winterstein	P	Ciprico Inc.
Mr. Lam Dang	A	Cirrus Logic Inc.
Mr. Gene Milligan	P	Control Data Corp.
Mr. Bart Raudebaugh	O	Cygnet Systems
Mr. Steve Kohalmi	P	Data General Corp.
Mr. Terence A. Chua	P	DEST Corp.
Mr. Jeremy Higdon	A	DEST Corp.
Mr. John Morse	A	Digital Equipment Corp.
Mr. Del Shoemaker	L	Digital Equipment Corp.
Mr. Edward A. Gardner	V	Digital Equipment Corp.
Mr. Duncan McDonald	P	Distributed Logic Corp.
Mr. Curt Ridgeway	A	Distributed Logic Corp.
Mr. Steve Goldman	P	DPT
Mr. Tom Treadway	A	DPT
Mr. Dave Kuszmaul	S	DPT
Mr. Stephen Fitzgerald	P	Eastman Kodak Co.
Mr. Tom Anderson	V	ELCO Corp.
Mr. Gerald Maurer	P	Emulex Corp.
Mr. Chuck Hess	O	Exabyte Corp.
Mr. Robert Liu	P	Fujitsu America, Inc.
Mr. Bob Thornton	O	Fujitsu Components of America
Mr. Dan Landeck	O	Fujitsu Microelectronics
Mr. John Reimer	O	Fujitsu Microelectronics
Mr. Ed Bleichner	O	Fujitsu Microelectronics
Mr. Pat Walker	P	Hewlett Packard Co.
Mr. Joel Dunning	O	Hewlett Packard Co.
Mr. Bob Pentecost	O	Hewlett Packard Co.
Mr. Ray Calvin	P	Hirose Electric U.S.A.

Add *Du Allan*
ENDL

Meeting Attendees - Enclosure (1)

Name	Status	Organization
Mr. Sherman Black	O	Hitachi Computer Products
Dr. Sam Karunanithi	P	HMSI, Inc.
Mr. David McFadden	P	Honda Connector
Mr. Greg Floryance	P	IBM Corp.
Mr. David A. Buesing	O	IBM Corp.
Mr. Tony Salthouse	P	ICL
Mr. Karl Wurstner	P	Intergraph Corp.
Mr. Dave Goodman	P	ITT Cannon
Mr. Martin Pullam	P	JAE
Mr. Ken Tsukinari	A	JAE
Mr. Y. Hayashida	O	JAE
Mr. D. Shaff	O	JAE
Mr. William Homans	P	LMSI-CPI
Mr. Paul Boulay	A	LMSI-OSI
Mr. Swami Nathan	A	Maxon Systems, Inc.
Mr. Bob Mortensen	P	Maxtor Corp.
Mr. Skip Jones	A	Maxtor Corp.
Mr. Paul Wassenberg	P	Micropolis Corp.
Mr. Barton L. Phillips	A	Micropolis Corp.
Mr. Michael Bryan	P	Miniscribe Corp.
Mr. Randy Lovelady	P	Molex Inc.
Mr. William E. Burr	P	Nat. Bureau of Standards
Mr. James Schuessler	P	National Semiconductor
Mr. John Lohmeyer	P	NCR Corp.
Mr. Bruce Anderson	P	NEC I.S.
Mr. Ken Drewlo	O	Network Systems
Mr. Ed Cieniawa	O	Panduit Corp.
Mr. James A. Whitworth	P	Priam Corp.
Mr. Bob DeMattio	O	Priam Corp.
Mr. James McGrath	P	Quantum Corp.
Dr. Tetsuro Motoyoma	O	Ricoh Corporation
Mr. Ron Schlitzkus	A	Scientific Micro Systems
Mr. Aziz Makhani	O	Silicon Systems
Mr. Lawrence J. Lamers	P	Sony Corp. of America
Mr. David A. Hatch	P	Stewart Connector Systems
Mr. Terry Meighen	A	Stewart Connector Systems
Mr. D. W. Spence	P	Texas Instruments
Mr. Harvey Waltersdorf	P	Thomas & Betts
Mr. Peter Kurbikoff	S	Viking Connectors
Mr. Jeff Stai	P	Western Digital

Status Key:

- P - Principal
- A - Alternate
- L - Liaison
- O - Observer
- S - Special Interest
- V - Visitor

May 5, 1988 - X3T9.2 Membership Changes - Enclosure (2)

Mr. Robert N. Snively
Adaptec, Inc.
691 S. Milpitas Blvd.
Milpitas, CA 95035 Address and phone changed
 P (408) 945-8600 x2789

Mr. Dennis Krob
Amphenol Corp.
4300 Commerce Ct.
Lisle, IL 60532 Replaces Petrowich
 P (312) 983-3569

Mr. Ed Cieniawa
Amphenol Corp.
4300 Commerce Ct.
Lisle, IL 60532 Left Amphenol -- now at Panduit
 T (312) 983-3691

Mr. Ted Petrowich
Amphenol Corp.
4300 Commerce Ct.
Lisle, IL 60532 Replaced by Krob
 R (312) 983-3569

Mr. Philip J. Puglisi
AT&T
Dept. 240570
777 N. Blue Pkwy.
Lee's Summit, MO 64063 New Observer
 O (816) 251-5189

Mr. Larry Marak
AT&T
Dept 700420
777 North Blue Parkway
Lee's Summit, MO 64063 New Observer
 O (816) 251-4538

Mr. Christian Mollard
BULL Systems
Rue Jean Jaures
Les Clayes Sous Bois
FRANCE Corrected address
 O 134627128

Mr. William S. Cover
Cinch Connectors
1501 Morse Ave.
Elk Grove Village, IL 60007 New Principal
 P (312) 981-6301

May 5, 1988 - X3T9.2 Membership Changes - Enclosure (2)

Mr. John Guennewig New Alternate
Cinch Connectors
1501 Morse Avenue
Elk Grove Village, IL 60007 A (312) 981-6070

Mr. Dan Davies Zip Code changed
Cipher Data Products, Inc.
10101 Old Grove Rd. P (619) 578-9100
Mail Stop D18
San Diego, CA 92138

Mr. David Thomas Zip Code Changed
Cipher Data Products, Inc.
10101 Old Grove Rd. A (619) 578-9100
Mail Stop D9
San Diego, CA 92138

Mr. Lam Dang New Alternate
Cirrus Logic Inc.
1463 Centre Pointe Drive
Milpitas, CA 95035 A (408) 945-8300

Mr. Bart Raudebaugh New Principal
Cygnet Systems
601 West California Ave.
Sunnyvale, CA 94086-4831 P (408) 773-0770

Mr. Terence A. Chua New Principal
DEST Corp.
1201 Cadillac Court
Milpitas, CA 95035 P (408) 946-7100

Mr. Jeremy Higdon New Alternate
DEST Corp.
1201 Cadillac Court
Milpitas, CA 95035 A (408) 946-7100

Mr. Jeff Seideman New Alternate
DEST Corp.
1201 Cadillac Court
Milpitas, CA 95035 A

May 5, 1988 - X3T9.2 Membership Changes - Enclosure (2)

Mr. John Morse Digital Equipment Corp. Mail Stop MLO 5-5/E71 146 Main Street Maynard, MA 01754	Replaces Ed Gardner A
Mr. Edward A. Gardner Digital Equipment Corp. 301 Rockrimmon Blvd., S. CXO 1-2/N22 Col. Springs, CO 80919	Replaced by John Morse - was Alternate R (719) 548-2247
Mr. Arnold J. Roccati EG&G WASC, Inc 1396 Piccard Dr. Rockville, MD 20850	Changed to Observer - Nonattendance O (301) 840-3277
Mr. Robert B. Anthony EG&G WASC, Inc P. O. Box 552 Dahlgren, VA 22448	Changed to Observer - Nonattendance O (703) 663-2161
Mr. Chuck Hess Exabyte Corp. 1745 38th St. Boulder, CO 80301	New Observer O (303) 442-4333 x318
Mr. John Reimer Fujitsu Microelectronics 3545 N 1st St. San Jose, CA 95134-1804	New Observer O (408) 922-9390
Mr. Ed Bleichner Fujitsu Microelectronics 3500 Parkway Lane, Suite 210 Atlanta, GA	New Observer O (404) 449-8539
Mr. Joel Dunning Hewlett Packard Co. 8000 Foothills Blvd. Roseville, CA 95678	New Observer O (916) 786-8000

May 5, 1988 - X3T9.2 Membership Changes - Enclosure (2)

Mr. David A. Buesing New Observer
IBM Corp.
2F1/030-2 O (507) 253-9112
37 St., Hwy 52
Rochester, MN 55901

Mr. Ivan Cowie New Alternate
Intergraph Corp.
1 Madison Industrial Park A
Huntsville, AL 35807

Mr. Karl Wurstner Replaces Bethune
Intergraph Corp.
M/S CR1105 P (205) 772-6732
1 Madison Industrial Park
Huntsville, AL 35807

Mr. Dave Bethune Replaced by Wurstner - was Principal
Intergraph Corp.
1 Madison Ind. Park R (205) 772-6136
Huntsville, AL 35807
M/S CR1104

Mr. Dave Goodman New Principal
ITT Cannon
10550 Talbert P (714) 964-8320
Fountain Valley, CA 92708

Mr. Bill Losch New Alternate -- was Observer
ITT Cannon
10550 Talbert A (714) 964-8274
Fountain Valley, CA 92708

Mr. Martin Pullam New Principal - fixed spelling of name
JAE
1901 E. Carnegie Av., Suite A P (714) 250-8770
Santa Ana, CA 92705-5504

Mr. Ken Tsukinari New Alternate
JAE
1901 E. Carnegie Av., Suite A A (714) 250-8770
Santa Ana, CA 92705-5504

May 5, 1988 - X3T9.2 Membership Changes - Enclosure (2)

Mr. D. Shaff New Observer
JAE
1901 E. Carnegie Av., Suite A O (714) 250-8770
Santa Ana, CA 92705-5504

Mr. Y. Hayashida New Observer
JAE
1901 E. Carnegie Av., Suite A O (714) 250-8770
Santa Ana, CA 92705-5504

Mr. Louis G. Edwards Terminated per Boulay (was Alternate)
LMSI-OSI
4425 ArrowsWest Dr. T (303) 593-4205
Colorado Springs, CO 80907

Mr. Bob Mortensen Was Alternate
Maxtor Corp.
211 River Oaks Pkwy P (408) 432-4447
San Jose, CA 95134

Mr. Skip Jones Was Principal - Address changed
Maxtor Corp.
2811 Riachuelo A (408) 432-3645
San Clemente, CA 92672

Mr. John Eagle Terminated - was Observer - left Micropolis
Micropolis Corp.
21123 Nordhoff St. T (818) 709-3489
Chatsworth, CA 91311

Mr. Jim Johnston Replaces Kendall as Alternate
National Semiconductor
POB 58090, M/S 3969 A (408) 721-4822
2900 Semiconductor Dr.
Santa Clara, CA 95052-8090

Mr. Larry Kendall Replaced by Johnston
National Semiconductor
POB 58090, M/S 3969 R (408) 721-5964
2900 Semiconductor Dr.
Santa Clara, CA 95052-8090

May 5, 1988 - X3T9.2 Membership Changes - Enclosure (2)

Mr. John Lohmeyer Phone number changed
NCR Corp.
3718 N. Rock Rd.
Wichita, KS 67226

Mr. Ken Drewlo New Observer
Network Systems
7600 Boone Ave. N.
Brooklyn Park, MN 55428

Mr. Ed Cieniawa New Observer
Panduit Corp.
412 Rockwell Ct.
BurrRidge, IL 60521

Mr. Bob DeMattio New Observer
Priam Corp.
239 Littleton Rd., Ste 7C
Westford, MA 01886

Mr. Dave Koger Address and phone change
Ricoh Corporation
1321 Ridder Park Drive
San Jose, CA 95131

Dr. Tetsuro Motoyoma Address and phone change
Ricoh Corporation
1321 Ridder Park Drive
San Jose, CA 95131

Mr. Ron Schlitzkus Replaces Eneboe as Alternate - was Observer
Scientific Micro Systems
339 N. Bernardo Ave.
P.O. Box 7777
Mountain View, CA 94039

Mr. Mike Eneboe Terminated - Left company
Scientific Micro Systems
339 N. Bernardo Ave.
P.O. Box 7777
Mountain View, CA 94039

May 5, 1988 - X3T9.2 Membership Changes - Enclosure (2)

Mr. Gene Abel New Observer
TelTec, Inc.
7890 12th Avenue South O (612) 854-9177
Minneapolis, MN 55425

Mr. Joseph Chen Terminated - left Xebec
Xebec
3579 Hwy 50 East T (702) 883-4000
Carson City, NV 89701

May 5, 1988 - X3T9.2 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, 502-1N-14	Austin, TX 78769-2963		(512) 834-5723
Mr. Bob Kuhl	S	3M Company	P.O. Box 2963 502-IN-14	Austin, TX 78769-2963		(512) 834-6703
Mr. Jerry L. Amstutz	P	A.C.T./Shugart	2931 La Jolla	Anaheim, CA 92806		(714) 632-9230
Mr. Robert N. Snively	P	Adaptec, Inc.	691 S. Milpitas Blvd.	Milpitas, CA 95035		(408) 945-8600 x2789
Mr. William A. Horton	A	Adaptec, Inc.	580 Cottonwood Dr.	Milpitas, CA 95035		(408) 432-8600
Mr. Robert R. Williamsen	A	Adaptec, Inc.	580 Cottonwood Dr.	Milpitas, CA 95035		(408) 432-8600
Mr. Jochen Polster	P	Advanced Micro Devices	901 Thompson Place, MS 70	Sunnyvale, CA 94088		(408) 749-2479
Mr. Nicos Syrimis	A	Advanced Micro Devices	901 Thompson Place, MS 70	Sunnyvale, CA 94088		(408) 732-2400
Mr. Govind Kamath	O	Advanced Micro Devices	2130 Woodward St.	Mail Stop 536	Austin, TX 78744	(512) 488-9817
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 1 Speedwell Av Rm 0966W		Morristown, NJ 07960	(201) 898-2234
Mr. Charles Brill	P	AMP, Inc.	Mail Stop 210-20	P. O. Box 3608	Harrisburg, PA 17105	(717) 561-6198
Mr. John H. Endsley	O	AMP, Inc.	Mail Stop 210-20	P.O. Box 3608	Harrisburg, PA 17105	(717) 561-6199
Mr. Edward Marsh	O	AMP, Inc.	3800 Reidsville Rd., MS 79-27	Winston-Salem, NC 27102		(919) 996-6049
Mr. C. Edward Reynolds	O	AMP, Inc.	P.O. Box 3608 M/S 26-17	Harrisburg, PA 17105		(717) 780-6558
Mr. Bob Whiteman	O	AMP, Inc.	P.O. Box 3608 M/S 26-17	Harrisburg, PA 17105		(717) 780-7481
Mr. Dennis Krob	P	Amphenol Corp.	4300 Commerce Ct.	Lisle, IL 60532		(312) 983-3569
Mr. William R. Sopchak	O	Amphenol Corp.	Endicott Operations	20 Valley St.	Endicott, NY 13760	(607) 754-4444 x370
Mr. William Dollar	O	AMPRO Computers, Inc.	67 E. Evelyn Ave.	Mtn. View, CA 94041		
Mr. Rick Lehrbaum	O	AMPRO Computers, Inc.	67 E. Evelyn Ave.	Mtn. View, CA 94041		(415) 962-0230
Mr. Nick Terry	O	Anamartic Ltd.	Milton Hall	Milton, Cambridge	CB4 4AE England	0223 862 833
Mr. Jan Dedeck	O	Ancot Corp.	505 Lowell Ave.	Palo Alto, CA 94301		(415) 363-0667
Mr. Harlan Andrews	P	Apple Computer	Mail Stop 22-AA	20525 Mariani Ave.	Cupertino, CA 95014	(408) 973-6430
Mr. Jeff Chen	A	Apple Computer	Mail Stop 22-AA	20525 Mariana Ave.	Cupertino, CA 95014	(408) 973-2815
Mr. Conrad Chen	ST	Apple Computer	Mail Stop 22AA	20525 Mariani Ave.	Cupertino, CA 95014	(408) 973-6316

May 5, 1988 - X3T9.2 Active Membership sorted by Organization - Enclosure (3)

Name	S	Organization	Address1	Address2	Address3	Phone-
Mr. Ali Khosrowpour	O	Applied Data Communications	14272 Chambers Rd.	Tustin, CA 92680	95014	(714) 731-9000
Mr. Randy Sprague	O	Applied Microsystems Corp.	5020 148th Ave. N. E.	P. O. Box C-1002	Redmond, WA 98073-1002	(202) 882-2000
Mr. Louis C. Domshy	P	Archive Corp.	1650 Sunflower Ave.	Costa Mesa, CA 92626		(714) 966-7317
Mr. Bob Richmond	A	Archive Corp.	1650 Sunflower Ave.	Costa Mesa, CA 92626		(714) 641-0279
Mr. Kim B. Le	P	Aspen Peripherals	1351 S. Sunset St.	Longmont, CO 80501		(303) 678-0808
Mr. George Reichenberg	A	Aspen Peripherals	1351 S. Sunset St.	Longmont, CO 80501		(303) 678-0808
Mr. Raymond Lee	O	AST Research, Inc.	2121 Alton Ave.	Irvine, CA 92714		(714) 863-1333 x6001
Mr. James J. Semenak	P	AT&T	1100 E. Warrenville Rd.	Room 2A-138	Naperville, IL 60566	(312) 979-7981
Mr. P. Allen England	A	AT&T	1100 E. Warrenville Rd.	Room IW 2A-234	Naperville, IL 60566	(312) 979-7852
Mr. David Harms	O	AT&T	1100 E. Warrenville Rd.	Rm IW 2C-427	Naperville, IL 60566	(312) 979-0159
Mr. Paul Kellogg	O	AT&T	1100 E. Warrenville Rd.	Rm IW 2B-468	Naperville, IL 60566	(312) 979-0332
Mr. Joe Lawlor	O	AT&T	1100 E. Warrenville Rd.	Rm IW 2C-435	Naperville, IL 60566	(312) 979-0133
Mr. Larry Marak	O	AT&T	Dept 700420	777 North Blue Parkway	Lee's Summit, MO 64063	(816) 251-4538
Mr. Philip J. Puglisi	O	AT&T	Dept. 240570	777 N. Blue Pkwy.	Lee's Summit, MO 64063	(816) 251-5189
SCAMOC	O	Attn: F2009-ST	5827 Columbia Pike	Suite 306	Falls Church, VA 22041	
Mr. Don Stephenson	O	Aura Systems	3548 Starboard Circle	Oceanside, CA 92054		(619) 722-5146
Mr. Michael Churma	O	Bell and Howell	5700 Lombardo Center	Suite 220, Center Bldg	Seven Hills, OH 44131	(216) 642-9060
Mr. Guy Prival	O	Bull Peripheral Corp.	766 San Aleso	Sunnyvale, CA 94086		(408) 745-0855
Mr. Christian Mollard	O	BULL Systems	Rue Jean Jaures	Les Clayes Sous Bois	FRANCE	134627128
Mr. David Barnum	P	Burndy Corp.	311 Greenhill Road	Madison, CT 06443		(203) 852-6062
Mr. Heinz Piorunneck	A	Burndy Corp.	Richards Ave.	Norwalk, CT 06856		(203) 852-8480
Mr. Anthony Colozzi	S	Burndy Corp.	Richards Ave.	Norwalk, CT 06856		(203) 852-6224
Mr. Ken Post	O	Cable and Computer Technology	1560 S. Sinclair St.	Anaheim, CA 92806		(714) 937-1341
Mr. John Contreras	O	Caliper	19701 S. Vermont Ave.	Torrance, CA 90502		(213) 538-1030
X3 Secretariat	L	CBEMA	311 First St., N. W.	Suite 500	Washington, DC 20001	(202) 737-8888
Mr. Paul Nitza	S	CCI		Irvine, CA		
Mr. Vince Zappia	O	Century Data Systems	1270 N. Kraemer Blvd.	Anaheim, CA 92806		(714) 99-2623
Mr. William S. Cover	P	Cinch Connectors	1501 Morse Ave.	E1k Grove Village, IL 60007		(312) 981-6301
Mr. John Guennewig	A	Cinch Connectors	1501 Morse Avenue	E1k Grove Village, IL 60007		(312) 981-6070
Mr. Bob Pontone	O	Cinch Connectors	1501 Morse Ave.	E1k Grove Village, IL 60007		(312) 981-6344
Mr. Dan Davies	P	Cipher Data Products, Inc.	10101 Old Grove Rd.	Mail Stop D18	San Diego, CA 92138	(619) 578-9100

May 5, 1988 - X3T9.2 Active Membership sorted by Organization - Enclosure (3)

Name	S	Organization	Address1	Address2	Address3	Phone
Mr. David Thomas	A	Cipher Data Products, Inc.	10101 Old Grove Rd.	Mail Stop D9	San Diego, CA 92138	(619) 578-9100
Mr. Steve Crompton	S	Cipher Data Products, Inc.	10101 Old Grove Rd.	Mail Stop D-4	San Diego, CA 92131	(617) 671-3333
Mr. Ron Fenn	ST	Cipher Data Products, Inc.	10101 Old Grove Rd.	San Diego, CA 92138		(619) 578-9100
Mr. Neal Foxworthy	ST	Cipher Data Products, Inc.	10101 Old Grove Rd.	San Diego, CA 92138		(619) 578-9108
Mr. Ishtiyaq Syed	P	Cipher/Optimem	297 N. Bernardo Ave.	Mountain View, CA 94043		(415) 961-1800 x804
Ms. Beth Stephens	A	Cipher/Optimem	297 N. Bernardo Ave.	Mountain View, CA 92138		(415) 961-1800 x804
Mr. Bill Winterstein	P	Ciprico Inc.	2955 Xenium Ln.	Plymouth, MN 55441		(612) 559-2034
Mr. Tom Wicklund	A	Ciprico Inc.	2955 Xenium Ln.	Plymouth, MN 55441		(612) 559-2034
Mr. Robert Kellert	P	Cirrus Logic Inc.	1463 Centre Pointe Drive	Milpitas, CA 95035		(408) 945-8300
Mr. Lam Dang	A	Cirrus Logic Inc.	1463 Centre Pointe Drive	Milpitas, CA 95035		(408) 945-8300
Ms. Judy Williams	L	Classic Conferences Inc.	#303-1493 Beach Park Blvd.	Foster City, CA 94404		(415) 349-5484
Mr. Ken Bush	O	Compaq Computer Corp.	20555 FM 149	Houston, TX 77070		(612) 789-1694
Mr. R. A. Stokken	O	Compugraphic Corp.	200 Ballardvale St.	Wilmington, MA 01877		(617) 658-5600
Mr. Ray Gill	SS	Compuscan, Inc.	900 Huyler St.	Teterboro, N. J. 07608		(201) 288-6001 x349
Mr. Richard P. Lenardon	ST	Computer Peripherals, Inc.	Tape Products Div.	2621 Van Buren Av. 19403	Norristown, PA	(215) 666-4645
Mr. Peter Johansson	P	Congruent Software, Inc.	3998 Whittle Ave.	Oakland, CA 94602		(415) 531-5472
Mr. Thomas A. Fiers	O	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. Gene Milligan	P	Control Data Corp.	MS OKM 275	P. O. Box 12313	Oklahoma City, OK 73157	(405) 324-3070
Mr. Gerald Houlder	A	Control Data Corp.	Mail Station MTE43G	12501 Whitewater Dr. 55343	Minnetonka, MN	(612) 936-6430
Mr. Douglas C. Johnson	O	Control Data Corp.	Data Sys. Roseville Div.	2401 North Fairview Ave. 55113	St. Paul, MN	
Mr. Wayne Sanderson	O	Control Data Corp.	ARH293	4201 N. Lexington Ave. 55126	St Paul, MN	(612) 482-2712
Mr. Michael A. Miller	S	Control Data Corp.	M.S. MTE43G	12501 Whitewater Dr. 55343	Minnetonka, MN	(612) 936-6442
Mr. John Stine	ST	CPI	Valley Forge Corp. Cntr.	2621 Van Buren Av. 19403	Norristown, PA	(215) 666-5000
Mr. Robert Knight	O	CPT Corp.	8100 Mitchel Rd.	P. O. Box 295	Minneapolis, MN	(612) 937-8000
Ms. Lisa Long	O	CPT Corp.	8100 Mitchel Rd.	P. O. Box 295	Minneapolis, MN	(612) 937-8000
Mr. Bart Raudebaugh	P	Cygnet Systems	601 West California Ave.	Sunnyvale, CA 94086-4831		(408) 773-0770
Mr. Steve Kohalmi	P	Data General Corp.	Technology Dr.	Durham, NH 03824		(603) 862-6258

May 5, 1988 - X3T9.2 Active Membership sorted by Organization - Enclosure (3)

Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Mark Lippitt	A	Data General Corp.	Technology Dr.	Durham, NH 03824		
Mr. Dave Cressman	O	Data General Corp.	Technology Dr.	Durham, NH 03824		
Mr. Charles DiChiara	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 S33	9725 Datapoint Dr.	San Antonio, TX	(512) 699-5443
Mr. Phil Devin	L	Dataquest	1290 Ridder Park Dr.	San Jose, CA 95131		
Mr. Bill Feagin	ST	DEC	ML01-5/B94	146 Main St.	Maynard, MA	(408) 971-9000
Mr. James Barnette	O	Dept. of Navy	8334 Barktree Ct.	Springfield, VA 22153		
Mr. Terence A. Chua	P	DEST Corp.	1201 Cadillac Court	Milpitas, CA 95035		(408) 946-7100
Mr. Jeremy Higdon	A	DEST Corp.	1201 Cadillac Court	Milpitas, CA 95035		(408) 946-7100
Mr. Jeff Seideman	A	DEST Corp.	1201 Cadillac Court	Milpitas, CA 95035		
Mr. James T. Benfer	O	Digi-Data	8580 Dorsey Run Road	Jessup, MD 20794		(301) 498-0200
Mr. Ulrich Kuhn	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	146 Main Street	Maynard, MA	(617) 493-4094
Mr. John Morse	A	Digital Equipment Corp.	Mail Stop MLO 5-5/E71	146 Main Street	Maynard, MA	
Mr. Del Shoemaker	L	Digital Equipment Corp.	1331 Pennsylvania Ave NW	Suite 600, MS: WNP	Washington, DC	(202) 383-5622
Mr. Alan Arnaud	O	Digital Equipment Corp.	333 South Street	SHR1-4/D10	Shrewsbury, MA	(617) 841-2301
Mr. Edward A. Gardner	R	Digital Equipment Corp.	301 Rockrimmon Blvd., S.	CXO 1-2/N22	Col. Springs,	(719) 548-2247
Mr. Duncan McDonald	P	Distributed Logic Corp.	1555 S. Sinclair	Anaheim, CA 92806	CO 80919	(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 Corp.	1555 S. Sinclair St.	Anaheim, CA 92806		(714) 937-5700
Mr. Steve Goldman	P	DPT	132 Candace Dr.	Maitland, FL 32751		(407) 830-5522
Mr. Tom Treadway	A	DPT	132 Candace Dr.	Maitland, FL 32751		(407) 830-5522
Mr. Dave Kuszmaul	S	DPT	132 Candace Dr.	Maitland, FL 32751		(407) 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.	DTGRL	460 Buffalo Rd.	Rochester, NY	(716) 588-0219
Mr. Roger Derr	A	Eastman Kodak Co.	Mass Memory Division	460 Buffalo Rd.	14611	
Mr. D. Hekimi	L	ECMA	Rue du Rhone 114	CH-1204 Geneva	Rochester, NY	(716) 588-0596
Mr. Robert B. Anthony	O	EG&G WASC, Inc	P. O. Box 552	Dahlgren, VA 22448	14611	
Mr. Arnold J. Roccati	O	EG&G WASC, Inc	1396 Piccard Dr.	Rockville, MD 20850	Switzerland	(703) 663-2161
Mr. Dan Amey	P	ELCO Corp.	Huntington Industrial Park	Huntington, PA 16652		(301) 840-3277
						(814) 643-0700

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Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Bob Strich	A	ELCO Corp.	1500 Quail St., Ste 220	Newport Beach, CA 92660		(714) 476-8462
Mr. Tom Fitzgerald	O	Electronic Processors, Inc.	P.O. Box 569	Englewood, CO 80151		(303) 761-8540
Mr. Vince Stinton	O	Electronic Processors, Inc.	P. O. Box 569	Englewood, CO 80117		
Mr. David C. Epps	ST	Electronic Processors, Inc.	1265 W. Dartmouth Ave.	Englewood, CO 80110		(303) 761-8540
Mr. Gerald Maurer	P	Emulex Corp.	3545 Harbor Blvd.	P.O. Box 6725	Costa Mesa, CA 92626	(714) 662-5600 x3086
Ms. Kim V. Le	A	Emulex Corp.	3545 Harbor Blvd.	P.O. Box 6725	Costa Mesa, CA 92626	(714) 662-5600
Ms. Anita Manciet	N	Emulex Corp.				
Mr. Randy Weber	ST	Emulex Corp.	3545 Harbor Blvd.	Costa Mesa, CA 92626		(714) 662-5600
Mr. I. Dal Allan	P	ENDL	Vice Chair, X3T9.2	14426 Black Walnut Ct. Saratoga, CA 95070		(408) 867-6630
Mr. Ken Hallam	A	ENDL	29112 Country Hills Rd.	San Juan Capistrano, CA 92675		(714) 364-9626
Mr. Ken Ng	O	Everex Systems, Inc.	2218 San Gabriel Blvd.	Suite 12	Rosemead, CA 91770	
Mr. Chuck Hess	O	Exabyte Corp.	1745 38th St.	Boulder, CO 80301		(303) 442-4333 x318
Mr. A. Buckley	O	Ferranti Computer Systems	Simonsway, Wythenshawe	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. Joel Urban	O	Fujitsu	3330 Scott Blvd.	Santa Clara, CA 95054		(408) 562-1722
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	3330 Scott Blvd	Santa Clara, CA 95054		(408) 562-1735
Mr. Seiichi Sugaya	S	Fujitsu Limited	1015 Kamikodaraka	Nakahara-ku	Kawasaki, Japan (044) 777-1111 211	
Mr. Ed Bleichner	O	Fujitsu Microelectronics	3500 Parkway Lane, Suite 210	Atlanta, GA		(404) 449-8539
Mr. Dan Landeck	O	Fujitsu Microelectronics	3320 Scott Blvd.	Santa Clara, CA 95054		(408) 562-1391
Ms. Nusra Lodhi	O	Fujitsu Microelectronics	3320 Scott Blvd.	Santa Clara, CA 95054		(408) 562-1463
Mr. John Reimer	O	Fujitsu Microelectronics	3545 N 1st St.	San Jose, CA 95134-1804		(408) 922-9390
Mr. Jeff Gallup	O	Gallup and Associates	2131 University Ave.	Berkely, CA 96708		
Mr. Pat Walker	P	Hewlett Packard Co.	Disc Memory Div.	11413 Chinden Blvd, MS Boise, ID 83707	(208) 323-2418 342	
Ms. Elen Hunt	A	Hewlett Packard Co.	700 71st Ave.	Greeley, CO 80634		(303) 350-4551
Mr. Dave McIntyre	A	Hewlett Packard Co.	Disk Memory Div.	11413 Chinden, MS-221	Boise, ID 83707	(208) 323-3003

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Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Pete Bramhall	O	Hewlett Packard Co.	Filton Road Stoke Gifford	Bristol BS12 6QZ	England	(0272) 799910
Mr. Joel Dunning	O	Hewlett Packard Co.	8000 Foothills Blvd.	Roseville, CA 95678		(916) 786-8000
Mr. Greg Hite	O	Hewlett Packard Co.	Disk Memory Div.	POB 39, MS-213	Boise, ID 83707	(208) 323-3208
Mr. Don Loughry	O	Hewlett Packard Co.	11000 Wolf Rd.	Cupertino, CA 95014		(408) 257-7000 x2454
Mr. Tom Moore	O	Hewlett Packard Co.	Disc Memory Division	MS 345, POB 39	Boise, ID 83707	
Mr. Bob Pentecost	O	Hewlett Packard Co.	Disc 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	(415) 857-2048
Mr. Rick Kato	S	Hewlett Packard Co.	700 71st Ave.	Greeley, CO 80634		
Dr. Ray Calvin	P	Hirose Electric U.S.A.	9254 Deering Av.	Chatsworth, CA 91311		(818) 709-1247
Mr. Michael Kosmala	A	Hirose Electric U.S.A.	9254 Deering Ave.	Chatsworth, CA 91311		(818) 709-1247
Mr. Kenji Nishimura	O	Hitachi America, Ltd.	950 Elm Ave	San Bruno, CA 94066		(415) 872-1902
Mr. Sherman Black	O	Hitachi Computer Products	P.O. Box 1203	Norman, OK 73070-1203		(405) 360-5500
Dr. Sam Karunanithi	P	HMSI, Inc.	180 Rose Orchard Way	San Jose, CA 95134		(408) 433-1990
Mr. David McFadden	P	Honda Connector	% Mhotronics	444 Lake Cook Rd., Suite 8	Deerfield, IL	(312) 945-5600
Mr. Kris Kowal	O	Honeywell Bull, Inc.	300 Concorde Rd.	Billerica, MA 01821		(617) 671-3333
Mr. Greg Floryance	P	IBM Corp.	Dpt. 3E2, Bldg. 114-2	37 St., Highway 52	Rochester, MN	(507) 253-1869
M. W. Calkins	A	IBM Corp.	P44-097	5600 Cattle Rd.	San Jose, CA	(408) 284-7222
Mr. Gerald Marazas	A	IBM Corp.	Mail Stop 4633	P.O. Box 1328	Boca Raton, FL	(305) 982-5972
Mr. Gary R. Stephens	A	IBM Corp.	Dept 63K/071-2	9000 S. Rita Rd.	Tucson, AZ	(602) 799-2246
Mr. David A. Buesing	O	IBM Corp.	2F1/030-2	37 St., Hwy 52	Rochester, MN	(507) 253-9112
Mr. Greg Sims	ST	IBM Corp.	Mail Stop 63B/021-2	Tucson, AZ 85744		
Mr. Tony Salthouse	P	ICL	Wenlock Way	West Gorton	Manchester, UK	61-223 1301
Mr. R. Hallam	A	ICL	Wenlock Way	West Gorton	M12 5DR	
Mr. Richard Coulson	O	Intel Corp.	HF2-1-108	5200 Elam Young Pkwy.	Hillsboro, OR	(503) 681-5287
Mr. Randy Kerns	O	Intellistor	2120 Miller Dr.	Longmont, CO 80501		
Mr. Ivan Cowie	A	Intergraph Corp.	1 Madison Industrial Park	Huntsville, AL 35807		(303) 678-0697
Mr. Karl Hurstner	P	Intergraph Corp.	M/S CR1105	1 Madison Industrial Park	Huntsville, AL	(205) 772-6732
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.	P.O. Box 64750	St. Paul, MN		(612) 789-2421 x46

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Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Stephen Cornaby	P	Iomega Corp.	1821 West 4000 South	55164-0750 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	ST	Irwin Magnetics	2311 Green Rd.	Ann Arbor, MI 48105		(313) 996-3323
Mr. Dave Goodman	P	ITT Cannon	10550 Talbert	Fountain Valley, CA 92708		(714) 964-8320
Mr. Bill Losch	A	ITT Cannon	10550 Talbert	Fountain Valley, CA 92708		(714) 964-8274
Mr. Martin Pullam	P	JAE	1901 E. Carnegie Av., Suite A	Santa Ana, CA 92705-5504		(714) 250-8770
Mr. Ken Tsukinari	A	JAE	1901 E. Carnegie Av., Suite A	Santa Ana, CA 92705-5504		(714) 250-8770
Mr. Y. Hayashida	O	JAE	1901 E. Carnegie Av., Suite A	Santa Ana, CA 92705-5504		(714) 250-8770
Mr. D. Shaff	O	JAE	1901 E. Carnegie Av., Suite A	Santa Ana, CA 92705-5504		(714) 250-8770
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	O	Laserdrive	1101 Space Park Drive	Santa Clara, CA 95054		(408) 970-3600
Mr. Doug Mitchell	O	Laserdrive Ltd.	1101 Space Park Dr.	Santa Clara, CA 95054		(408) 970-3607
Mr. William Homans	P	LMSI-CPI	2621 Van Buren Ave.	Norristown, PA 19403		(215) 666-4764
Mr. Robert Johnston	S	LMSI-CPI	2621 Van Buren Dr.	Norristown, PA 19403		(215) 666-4705
Mr. Bruce Sketter	S	LMSI-CPI	2621 Van Buren Dr.	Norristown, PA 19403		(215) 666-4660
Mr. Paul Boulay	A	LMSI-OSI	4425 ArrowsWest Dr.	Colorado Springs, CO 80907		(303) 593-4323
Mr. Dave Pohm	SO	LMSI-OSI	4425 ArrowsWest Drive	Colorado Springs, CO 80907		
Mr. Robert Bellino	O	Madison Cable Con.	125 Goddard Memorial Dr.	Worchester, MA 01603		(617) 752-7320
Mr. Robert E. Smiley	P	MAI Basic Four	14101 Myford MD312	Tustin, CA 92680		(714) 730-2509
Mr. David F. Craft, Jr.	O	Masscomp	1 Technology Park	Westford, MA 01886		
Mr. Kris Swanson	O	Masscomp	1 Technology Park	Westford, MA 01886		
Mr. David Scheffey	P	Maxon Systems, Inc.	353 Vintage Park Dr., Suite B	Foster City, CA 94404		(415) 377-0202
Mr. Swami Nathan	A	Maxon Systems, Inc.	353 Vintage Park Dr., Suite B	Foster City, CA 94404		
Mr. Bob Mortensen	P	Maxtor Corp.	211 River Oaks Pkwy	San Jose, CA 95134		(408) 432-4447
Mr. Dan Banerje	A	Maxtor Corp.	211 River Oaks Pkwy	San Jose, CA 95134		(408) 432-4452
Mr. Skip Jones	A	Maxtor Corp.	2811 Riachuelo	San Clemente, CA 92672		(408) 432-3645
Mr. John Hoy	O	Maxtor Corp.	211 River Oaks Pkwy	San Jose, CA 95134		(408) 432-4722
Ms. Donna Pope	O	Maxtor Corp.	211 River Oaks Pkwy	San Jose, CA 95134		(408) 432-4455
Mr. John Hackmann	O	McDonnell Douglas	3320 Cedar Mtn Rd.	Belleville, IL 62221		(314) 895-5296
Mr. Roger Barnes	O	Memorex Corp. -14-47	San Tomas at Central Expsy	Santa Clara, CA 95052		(408) 987-0441
Mr. Bob Masterson	P	Methode Electronics, Inc.	2950 S. Jamaica, #100	Aurora, CO 80014		(303) 695-1333
Mr. Hobie Weaver	A	Methode Electronics, Inc.	3125 Poplarwood Ct.	PO Box 95073	Realeigh, NC 27625	(919) 878-0988
Mr. Roger Corte	O	Metier Management	3 Foundation St.	Ipswich IP41BG	England	

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Name	S	Organization	Address1	Address2	Address3	Phone
Systems						
Mr. Paul Wassenberg	P	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA 91311		(818) 709-3318
Mr. Barton L. Phillips	A	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA 91311		(818) 709-3341
Mr. Richard Hodgson	N	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA 91311		(818) 709-3457
Mr. Jim Patton	N	Micropolis Corp.	21123 Nordhoff St.	Chatsworth, CA 91311		(818) 709-3306
Mr. Eric Yu	O	Microtek Lab. Inc.	16901 South Western Ave.	Gardena, CA 90247		(213) 321-2121
Mr. Nick Livote	O	MILTOPE Corp.	1770 Walt Whitman Rd.	Melville, NY 11747		(516) 756-7639
Mr. Michael Bryan	P	Miniscribe Corp.	1831 Lefthand Cr., B8-1	Longmont, CO 80501		(303) 678-2186
Mr. Kim Ryal	A	Miniscribe Corp.	1831 Lefthand Cr.	Longmont, CO 80501		(303) 678-2733
Mr. Daniel E. Moczarny	P	Mitsubishi Electronics Amer	991 Knox St.	Torrance, CA 90502		(213) 515-3993
Mr. Toshio Hashimoto	O	Mitsubishi Electronics Amer	991 Knox St.	Torrance, CA 90502		(213) 515-3993
Mr. Randy Lovelady	P	Molex Inc.	2222 Wellington Ct.	Lisle, IL 60532		(312) 969-4550
Mr. Irv Triner	A	Molex Inc.	2222 Wellington Ct.	Lisle, IL 60532		(312) 969-4550
Mr. Bill Bamford	O	Molex Inc.	2222 Wellington Ct.	Lisle, IL 60532		(312) 969-4550
Mr. Cousy Maher	O	Motorola Micro Systems	Mail Drop DW220	2900 S. Diablo Way	Tempe, AZ 85282	(602) 438-3286
Mr. Paul Rosen	O	Motorola Micro Systems	2900 S. Diablo Way	Tempe, AZ 85282		(602) 438-3150
Mr. Ed Perry	O	Mountain Computer	300 El Pueblo Rd.	Scotts Valley, CA 95066		
Mr. William E. Burr	P	Nat. Bureau of Standards	Room A-216, Bldg. 225	Gaithersburg, MD 20899		(301) 975-2914
Mr. Liu Zuqiu	A	Nat. Bureau of Standards	Room A-216, Bldg. 225	Gaithersburg, MD 20899		(301) 975-2914
Mr. James Schuessler	P	National Semiconductor	POB 58090, M/S 3969	2900 Semiconductor Dr. Santa Clara, CA	(408) 721-6802 95052-8090	
Mr. Jim Johnston	A	National Semiconductor	POB 58090, M/S 3969	2900 Semiconductor Dr. Santa Clara, CA	(408) 721-4822 95052-8090	
Mr. Aki Komatzuzaki	O	NCL America	1221 Innsbruck	Sunnyvale, CA 94089		(408) 734-1006
Mr. Frank Krulc	O	NCL America	1221 Innsbruck	Sunnyvale, CA 94089		(408) 734-1006
Mr. John Lohmeyer	P	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 636-8703
Mr. Marty Francis	A	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 636-8000
Mr. Fred F. Meadows	A	NCR Corp.	16550 W. Bernardo Dr.	San Diego, CA 92127		(619) 485-3228
Mr. Harry Mason	O	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	ST	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 636-8720
Mr. Monte Evans	ST	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 636-8706
Mr. Terry Johnson	S	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 636-8000
Mr. Michael Linkous	S	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		
Mr. Ron Miller	ST	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 636-8000
Mr. Dave Skinner	S	NCR Corp.	3718 N. Rock Rd.	Wichita, KS 67226		(316) 636-8707
Mr. Bruce Anderson	P	NEC I.S.	155 Swanson Rd.	Boxborough, MA 01719		(617) 653-4721
Mr. Dennis R. Powell	A	NEC I.S.	155 Swanson Rd.	Boxborough, MA 01719		(617) 635-4713
Mr. John Zilinski	A	NEC I.S.	110 Rio Robles	San Jose, CA 95134		(408) 433-1390
Ms. Joan French	O	NEC Systems	1414 Massachusetts	Boxboro, MA 01719		(617) 262-2627

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Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Ken Drewlo	O	Laboratory Network Systems	Ave. 7600 Boone Ave. N.	Brooklyn Park, MN 55428		(612) 424-4888
Mr. Paul K. Garretson	O	Nissei Sangyo (Hitachi)	460 E. Middlefield Rd. Mt. View, CA 94043			(415) 969-1100
Mr. Nobby Yawata	O	Nissho Electronics (USA)	Inwood Park, Suite 200 17310 Red Hill Ave.	Irvine, Ca 92714		(714) 261-8811
Mr. Prentiss Smith	O	Nissho Iwai	American Corp.	700 S. Floer St.	Los Angeles, CA (213) 688-1120	90017
Mr. Paul Clement	O	North Atlantic Industries	35 South St. (Area E-1)	Hopkinton, MA 01748		(617) 435-9011
Mr. Ron Sulyma	O	North Atlantic Industries	60 Plant Ave.	Hauppauge, NY 11788		(516) 582-6500
Mr. David Filpus	P	Northern Telecom, Inc.	Memory Systems Division	100 Phoenix Dr., POB D Ann Arbor, MI 48106		(313) 973-4848
Mr. Frank Haas	A	Northern Telecom, Inc.	Memory Systems Division	100 Phoenix Dr., POB D Ann Arbor, MI 48106		(313) 973-4000
Mr. David Huminski	O	OKIDATA	532 Fellowship Rd.	Mt. Laurel, NJ 08054		(609) 235-2600
Mr. Roman Orzol	S	OKIDATA	532 Fellowship Rd.	Mt. Laurel, NJ 08054		(609) 235-2600 x7467
Mr. Wayne Baldwin	O	Olivetti	20300 Stevens Creek Blvd.	Cupertino, CA 95014		(408) 996-3867
Mr. Jim Harper	O	Optotech, Inc.	740-770 Wooten Rd.	Colorado Springs, CO 80915		(303) 570-7500
Mr. Thomas Steury	O	Pacific Electro Data Inc.	14 Hughes, Suite B205	Irvine, CA 91718		(714) 770-3244
Mr. Stephen S. Francis	O	Palantir Corp.	2455 Augustine Dr.	Santa Clara, CA 95054		(408) 986-8006
Mr. Charles Yang	P	Panasonic Industrial Co.	1600 McCandless Dr.	Milpitas, CA 95035		(408) 262-2200
Mr. Steve Heissenbuttel	A	Panasonic Industrial Co.	One Panasonic Way	Secaucus, NJ 07094		(201) 348-7000
Mr. Hitoshi Watanabe	O	Panasonic Industrial Co.	1600 McCandless Dr.	Milpitas, CA 95035		(408) 262-2200
Mr. Ed Cieniawa	O	Panduit Corp.	412 Rockwell Ct.	BurrRidge, IL 60521		(312) 887-1000
Mr. Robert Bender	O	Pentax Technologies	880 Interlocken Pkwy	Broomfield, CO 80020		(303) 460-1600
Mr. Bill Bunker	O	Pentax Technologies	880 Interlocken Pkwy	Broomfield, CO 80020		(303) 460-1600
Mr. John J. Grana	O	Performance Technologies, Inc	435 W. Commercial St.	E. Rochester, NY 14445		(716) 586-6727
Mr. Daniel Loski	P	Peripheral Technology Inc.	685 East Cochran St.	Simi Valley, CA 93065		(805) 581-1000
Mr. Bert Gall	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. Barry Mallett	O	Plessey Microsystems Ltd.	Water Lane, Towcester, Northants	England 7JN	NN12 (0327) 50312 x2294	
Mr. Robert Metz	O	PrairieTek Corp.	10133 N. 75th St.	Longmont, CO 80501		(303) 443-3788
Mr. James A. Whitworth	P	Priam Corp.	20 West Montague Expwy	San Jose, CA 95134		(408) 434-9300
Mr. Mike Buckert	A	Priam Corp.	20 West Montague Expwy	San Jose, CA 95134		(408) 434-9300
Mr. Ron Scott	A	Priam Corp.	20 West Montague Expwy	San Jose, CA 95134		(408) 434-9300
Mr. Bob DeMattio	O	Priam Corp.	239 Littleton Rd., Ste Westford, MA 01886			(617) 692-0271

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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 Mager	O	Quantum Corp.	1804 McCarthy Blvd.	Milpitas, CA 95035		(408) 432-1100
Mr. John Fobel	O	Rancho Technology, Inc.	8632 Archibald Ave, Suite 109	Rancho Cucamonga, CA		(714) 987-3966
Mr. Dave Koger	O	Ricoh Corporation	1321 Ridder Park Drive	San Jose, CA 95131		(408) 432-8800
Dr. Tetsuro Motoyoma	O	Ricoh Corporation	1321 Ridder Park Drive	San Jose, CA 95131		(408) 432-8800
Mr. David Ruxton	O	RODIME LTD	Southfield	Glenrothes, Scotland		44(592)774704
Mr. Robert Wachob	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. Ron Schlitzkus	A	Scientific Micro Systems	339 N. Bernardo Ave.	P.O. Box 7777	Mountain View, CA 94039	(415) 962-5461
Dr. Haim Amir	S	Scitex Corp. Ltd.	P.O. Box 330	46103 Herzlia B	Israel	(052) 54938
Mr. D. Michael Robinson	P	Seagate Technology	920 Disc Drive	Scotts Valley, CA 95066		(408) 438-6550 x4055
Mr. Dhisw Dera	A	Seagate Technology	920 Disc Drive	Scotts Valley, CA 95066		(408) 439-4060
Mr. Carter O'Brien	A	Seagate Technology	920 Disc Drive	Scotts Valley, CA 95066		(408) 438-6550
Mr. Charles M. Schroter	A	Seagate Technology	920 Disc Drive	Scotts Valley, CA 95066		(408) 438-6550
Mr. William K. Smythe	L	Secretary, IT8 Committee	NPES Inc.	1899 Preston White Drive	Reston, VA 22091	(703) 264-7200
Mr. K. Ota	O	Seiko Epson Corp., 2L Group	Suwaminiami 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 ???
Mr. John Sondergaard	ST	Siemans Information Systems, I	5655 Lindero Canyon Rd, Ste 32	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 80, Germany	01149-89-4133-4735
Mr. Dean Konell	P	Siemens Information Sys.	5655 Lindero Cyn Rd #325	Westlake Village, CA 91362		(818) 706-8872
Mr. Aziz Makhani	O	Silicon Systems	14351 Myford Road	Tustin, CA 92680		(714) 731-7110 x462
Mr. Lawrence J. Lamers	P	Sony Corp. of America	655 River Oaks Parkway	San Jose, CA 95134		(408) 432-0190
Mr. Sergio Fonesca	A	Sony Corp. of America	1 Sony Dr.	Park Ridge, NJ 07656		(201) 930-6464
Mr. Rafael Orsini	O	Sony Corp. of America	15 Essex Rd.	Paramus, NJ 07652		(201) 368-5151
Mr. David Cragg	O	Standard Micro Systems	35 Marcus Blvd.	Hauppauge, NY 11788		(516) 273-3100
Mr. Ron Ethe	O	Standard Micro Systems	35 Marcus Blvd.	Hauppauge, NY 11788		(516) 273-3100
Mr. David A. Hatch	P	Stewart Connector	203 Monomoscoy Rd.	Mashpee, MA 02649		(617) 477-4403

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Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Terry Meighen	A	Systems Stewart Connector Systems	203 Monomoscoy Rd.	Mashpee, 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	
Mr. Fred Berkowitz	P	Sun Microsystems, Inc.	2550 Garcia Ave.	Mountain View, CA 94043		(415) 691-7414
Mr. Paul Rikkonen	A	Sun Microsystems, Inc.	Two Federal Street	Billerica, MA 01821		(617) 667-0010
Mr. Steve Tsai	O	Sun Microsystems, Inc.	2550 Garcia Ave.	Mail Stop A5-41	Mountain View, CA 94043	(415) 691-2274
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	O	Tandem Computer Inc. Location 100-03		10555 Ridgeview Ct.	Cupertino, CA 95014	(408) 996-6635
Mr. Satish Shah	O	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. Tom Gardner	O	Technology Forums, Ltd.	14469 Manuella	Los Altos, CA 94022		(415) 941-5324
Mr. Ned N. Mayrath	O	Telex Computer Products	6422 E. 41st St.	Tulsa, OK 74135		(918) 628-2370
Mr. Gene Abel	O	TelTec, Inc.	7890 12th Avenue South	Minneapolis, MN 55425		(612) 854-9177
Mr. Herman Pass	O	Terminal Data Corp.	2800 N. Madgra Rd.	Simi Valley, CA 93065		(805) 584-0500
Mr. D. W. Spence	P	Texas Instruments	Data Systems Division	POB 2909, MS 2091	Austin, TX 78769	(512) 250-6627
Mr. Jesse Eckelkamp	A	Texas Instruments	Data Systems Division	POB 2909, MS 2091	Austin, TX 78769	(512) 250-6525
Mr. Jerry Laws	O	Texas Instruments	Mail Stop 2091	P.O. Box 2909	Austin, TX 78769	
Mr. Clarence Lewis	O	Texas Instruments	P. O. Box 655474	M/S 8209	Dallas, TX 75265	(214) 997-3396
Mr. Skip Strang	O	Texas Instruments	P. O. Box 655474	M/S 8209	Dallas, TX 75265	(214) 997-3394
Mr. Harvey Waltersdorf	P	Thomas & Betts	1001 Frontier Road	Bridgewater, NJ 08807		(201) 685-1600
Ms. Patricia H. Moorman	A	Thomas & Betts	1001 Frontier Road	Bridgewater, NJ 08807		(201) 685-1600
Mr. Paul Phillips	A	Thomas & Betts	1001 Frontier Road	Bridgewater, NJ 08807		(201) 685-1600
Mr. Bob Brush	N	Thomas & Betts	1001 Frontier Road	Bridgewater, NJ 08807		(201) 685-1600
Mr. Harvey Altman	O	Thorn EMI Technology	8601 Dunwoody Pl.	Atlanta, GA 30307		(404) 587-0017
Mr. Tom Duffy	O	Tropion Inc.	185 Rt. 34	PO Box 995	Matawan, NJ	(201) 290-0080

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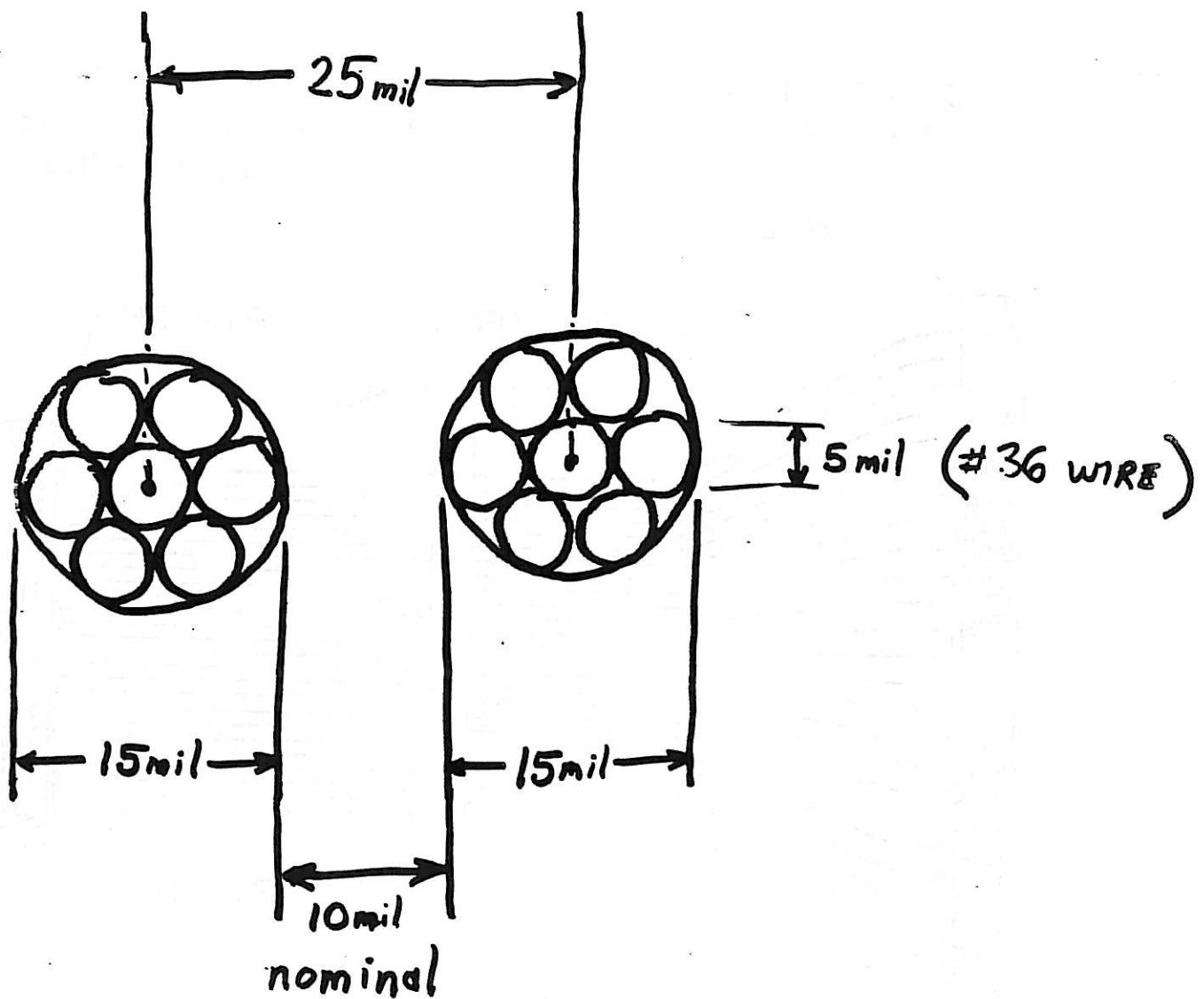
Name	S	Organization	Address1	Address2	Address3	Phone
Mr. Al Crowell	O	U. S. Design	5100 Philadelphia Way	Lanham, MD 20706	07747	(301) 577-2880
Mr. Peter Dougherty	P	UNISYS	San Thomas & Central Exprwy	MS 12-35	Santa Clara, CA 95052	(408) 987-2214
Mr. Floyd Ross	A	UNISYS	P.O. Box 1874	Southeastern, PA 19398		(215) 341-1542
Mr. William G. Klehm	O	UNISYS	Burroughs Pl.	Detroit, MI 48232		(313) 972-7932
Mr. Rama Voddi	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. Peter Kurbikoff	S	Viking Connectors	21001 Nordhoff St.	Chatsworth, CA 91311		(818) 341-4330
Mr. Karl Kwiat	S	Viking Connectors	21001 Nordhoff St.	Chatsworth, CA 91311		(818) 341-4330
Mr. Ken Bledden	O	Vodavi Technologies	8300 Raintree	Scotsdale, AZ 85260		
Mr. John Frissell	O	Wang Laboratories	Mail Stop 1429	1 Industrial Ave.	Lowell, MA 01852	(602) 437-9035
Mr. David Griffith	O	Wang Laboratories	Mail Stop 014-490	1 Industrial Ave.	Lowell, MA 01852	(617) 967-2265
Mr. Edwin H. MacNeill	ST	Wang Laboratories	One Industrial Ave.	Lowell, MA 01851		(617) 967-7263
Mr. Kenji Eigner	O	Wangtek	41 Moreland Rd.	Simi Valley, CA 93065		(805) 583-5255
Mr. Fred Richardson	O	Wangtek	41 Moreland Rd.	Simi Valley, CA 93065		(805) 583-5255
Mr. Varaje Anjargolian	ST	Wangtek	41 Moreland Rd.	Simi Valley, CA 93065		(805) 583-5255
Mr. Binh Vwong	ST	Wangtek	41 Moreland Rd.	Simi 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 Stat	P	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 474-2033 x7137
Mr. Ken D'Souza	A	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 474-2033
Mr. Rudy Goetz	O	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 474-2033
Mr. Marshal Lee	O	Western Digital	2445 McCabe Way	Irvine, CA 92714		(714) 474-2033 x2432
Mr. Irc Nussbaum	O	Western Digital	2445 McCabe Way	Irvine, CA 92714		
Mr. Stan Keeler	O	Xebec	3579 Hwy 50 East	Carson City, NV 89701		(702) 883-4000
Mr. Ray Pierce	S	Xerox Corp.	1301 Ridgeview Dr.	Lewisville, TX 75076		

May 5, 1988 - X3T9.2 Document Register Enclosure (4)

Document	Ent Date	Doc Date	Author	Description of Document
X3T9.2/88-1	1/17/88	1/6/88	J. Stai	UPDATE BLOCK modifications
X3T9.2/88-2	1/17/88	1/6/88	J. Stai	SEARCH command modifications
X3T9.2/88-3	1/17/88	1/4/88	J. McGrath	Questions concerning section 5 of SCSI-2 Rev 3
X3T9.2/88-4	1/17/88	1/7/88	P. Johansson	Management of the "Grown" Defect List
X3T9.2/88-5	1/17/88	1/7/88	J. Stai	CHANGE DEFINITION/INQUIRY modifications
X3T9.2/88-6	1/17/88	3/8/88	J. McGrath	First draft of LOG SELECT/SENSE commands
X3T9.2/88-7	1/17/88	11/25/87	P. Boulay	Relative Address Bit Unnecessarily Restricted??
X3T9.2/88-8	1/17/88	5/14/86	B. Snively	SET THRESHOLD and READ/RESET USAGE COUNTER commands
X3T9.2/88-9 Rev 1	1/17/88	3/3/88	D. Anderson	Target message response clarification
X3T9.2/88-10	1/17/88	1/11/88	J. Stai	March Working Group Meeting Announcement
X3T9.2/88-11	1/18/88	1/18/88	L. Lamers	SCSI-2 Working Group meeting minutes - San Jose
X3T9.2/88-12	1/20/88	1/19/88	J. Farnsworth	Request for Clarification of FORMAT UNIT command
X3T9.2/88-13	1/20/88	1/15/88	B. Driscoll	ltr to Scanner group warning of potential changes
X3T9.2/88-14	1/27/88	1/20/88	W. Smythe	ltr, Smythe to Lohmeyer, regarding IT8 liaison with X3T9.2
X3T9.2/88-15	1/28/88	1/28/88	D. Davies	PF bit Requirement in MODE SENSE
X3T9.2/88-16	1/28/88	1/28/88	D. Davies	Autosense Protocol
X3T9.2/88-17 Rev 1	2/2/88	2/8/88	J. Lohmeyer	X3T9.2 1987 Annual Report
X3T9.2/88-18	2/3/88	2/2/88	B. Spence	Follow-up report on study of miniature shielded connectors
X3T9.2/88-19	2/15/88	2/8/88	G. Houlder	May 9-11 Working Group Meeting Announcement
X3T9.2/88-20 Rev 1	2/16/88	4/25/88	J. Lohmeyer	X3T9.2 Meeting #74 Minutes -- February 22-23, 1988
X3T9.2/88-21	2/24/88	2/18/88	D. Appleyard	WRITE Command for Sequential Access Devices
X3T9.2/88-22	2/24/88	2/18/88	D. Appleyard	RECOVER BUFFERED DATA Command for Sequential Access Devices
X3T9.2/88-23	2/24/88	2/19/88	B. Snively	Consideration of phase definitions
X3T9.2/88-24	2/24/88	2/22/88	D. McIntyre	Unimplemented Page Request Response
X3T9.2/88-25 Rev 1	2/24/88	3/9/88	B. Mortensen	Rotational Position Locking
X3T9.2/88-26	2/24/88	2/24/88	G. Houlder	UNIT ATTENTION rewording to include new attentions
X3T9.2/88-27	2/24/88	2/24/88	G. Houlder	MODE SELECT rewording on saving pages and non-changeable parameters
X3T9.2/88-28	3/2/88	3/1/88	J. McGrath	Proposed wording for new Unit Attention Conditions
X3T9.2/88-29	3/8/88	3/7/88	P. Boulay	REQUEST SENSE Clarification
X3T9.2/88-30	3/8/88	3/7/88	J. McGrath	Proposed Definition of Caching
X3T9.2/88-31	3/14/88	3/14/88	Lamers, Stai, Lohmeyer	Newport Beach Working Group Minutes
X3T9.2/88-32	3/15/88	3/15/88	J. Lohmeyer	Additional Sense Code Spreadsheet
X3T9.2/88-33	3/18/88	2/22/88	C. Brill	AMP statement concerning patents on the Amplimite .050 Series connector
X3T9.2/88-34	3/21/88	3/16/88	M. Raskin	ltr, Stewart to AMP, saying high-density connector infringes patents
X3T9.2/88-35	3/21/88		M. Pullam	ltr regarding JAE compatibility with SCSI-2 high-density connector
X3T9.2/88-36	3/21/88	3/16/88	D. McFadden	ltr enclosing Honda connector drawings for SCSI-2 high-density connector
X3T9.2/88-37	4/12/88	4/18/88	B. Spence	Synchronous ACK Edge Proposal
X3T9.2/88-38	4/12/88	4/23/88	J. McGrath	Rev 4 Issues - Sections 7 and 8
X3T9.2/88-39	4/18/88	4/18/88	B. Heber	Proposed clarification to ESDI
X3T9.2/88-40	4/18/88		J. Lohmeyer	X3T9.2 Meeting #75 Minutes -- April 25-26, 1988
X3T9.2/88-41	4/21/88	4/25/88	D. Davies	READ SILI Implementation Requirement
X3T9.2/88-42	4/21/88		D. Davies	Sequential-Access Device Initialization Procedure
X3T9.2/88-43	4/21/88		D. Davies	MODE SELECT Clarification
X3T9.2/88-44	4/24/88	4/25/88	P. Boulay	HORM Device Specific MODE SELECT Page
X3T9.2/88-45	4/26/88	4/22/88	D. Smith	Alleged Patent Infringement
X3T9.2/88-46	4/26/88	4/22/88	R. Liu	MODE SELECT/SENSE Cache Control Page
X3T9.2/88-47	4/26/88	4/22/88	R. Schlitzkus	FORMAT TRACK Command for Floppy Disk Drives
X3T9.2/88-48	4/26/88		C. Brill	Pin Assignments for High-Density Connectors
X3T9.2/88-49	4/26/88	4/23/88	J. McGrath	Proposed Read Caching Page

28 Gauge 25 mil center-line ribbon cable - Enclosure (5)

28 GAUGE 25 mil center cable



Transition Cable Assembly - Enclosure (6)

AMPLIMITE .050 SERIES CONNECTORS
TRANSITION CABLE ASSEMBLY