

Accredited Standards Committee\*  
X3, Information Technology

Doc. No.: X3T10.1/95a230r0

Date: December 22, 1995

Project:

Ref. Doc.:

Reply to: Ken Hallam

Unisys

25725 Jeronimo Road

Mission Viejo, CA

92691

ken.hallam@mv.unisys.com

To: Membership of X3T10.1

From: Lawrence J. Lamers, Secretary X3T10  
Ken Hallam, Chair X3T10

Subject: X3T10.1 Minutes of Plenary Meeting #13  
December 13, 1995 -- Milpitas, CA

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Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Approval of Minutes of the previous X3T10.1 plenary
5. Document Distribution
6. Call for Patents
7. Review of Old Action Items
8. Project Status Reports
  - 8.1 SSA Physical 20 (SSA-PH1) [Ham]
  - 8.2 SSA Transport Layer (SSA-TL1) [Scheible]
  - 8.3 SSA SCSI-2 Protocol (SSA-S2P) [Monia]
  - 8.4 SSA SCSI-3 Protocol (SSA-S3P) [Monia]
9. Old Business
10. New Business
11. Liaison Reports
  - 11.1 SSA Industry Association [Hallam]
  - 11.2 SSF [Scheible]
12. Action Items
13. Meeting Schedule
14. Authorization of Working Group Meetings

\*Operating under the procedures of The American National Standards Institute.  
X3 Secretariat, Information Technology Industry Council (ITI)  
1250 Eye Street NW, Suite 200, Washington, DC 20005-3922  
Email: x3sec@itic.nw.dc.us Telephone: 202-737-8888 FAX: 202-638-4922

1/95a230r0

15. Adjournment

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## Results of Meeting

### Opening Remarks

Ken Hallam, the X3T10.1 Acting Chair, called the meeting to order at 3:00 p.m., Wednesday, December 13, 1995. He thanked Runbir Singh of VLSI for arranging and hosting the meeting.

Ken said that X3 Subgroup Membership forms and the X3T10 Mailing Subscription form were available from the secretary. He said that people should use the X3 forms to insure the X3 Secretariat has the latest membership information. These forms should be mailed directly to the X3 Secretariat.

As is customary, the people attending introduced themselves and a copy of the attendance list was circulated. Copies of the draft agenda and general information on X3T10.1 were made available to those attending.

Ken noted that due to constraints with his new employer he will not be able to continue as Chair of X3T10.1.

### Approval of Agenda

The agenda was approved as distributed.

### Attendance and Membership

The membership requirements were reviewed. X3 rules permit one vote per organization. An individual from a new organization must attend two out of three consecutive plenary meetings. He/she may apply for voting membership the second meeting via a letter to the Chair of X3T10.1. The individual may vote at the second plenary meeting. Working group meetings do not count toward attendance requirements.

Organizations must also pay the X3 Service Fee (\$300) to maintain membership. The International Program fee (\$300) is billed separately directly from ANSI.

The following organizations were in jeopardy at this meeting:

Amphenol Interconnect Products;  
Berg Electronics;  
Cirrus Logic;  
Hitachi;  
Storage Technology.

The following organizations that were in jeopardy did not attend this meeting and will be dropped to observer status:

Berg Electronics;  
Storage Technology.

The following organization joined X3T10.1 at the meeting: None.

The X3T10.1 membership is now at 24 organizations. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current X3T10.1 membership list.

1/95a230r0

## Approval of Minutes of the previous X3T10.1 plenary

Document X3T10.1/95a215r0, minutes of meeting #11 was approved.

## Document Distribution

The 1996 mailing subscription fees are \$470 for USA residents. An electronic option is under investigation and should be available by the first mailing of 1996.

Members who have any problems with their mailing subscription should deal directly with Katrina Gray (kgray@itic.nw.dc.us) or Dan Arnold (darnold@itic.nw.dc.us) at (202) 626-5741.

Larry Lamers requested that all documents for the next mailing be in his hands by noon on Wednesday, January 17, 1996. Documents received after this date will go into a subsequent mailing.

Larry Lamers reminded the committee of the requirements for document submission to be included in the committee mailing. Since X3T10.1 meets its document archiving requirements by including the X3 Secretariat on the mailing list, documents included in the mailing must be suitable for microfilming. This means that high-quality, single-sided originals with adequate margins and proper identification must be submitted. Document X3T10/94-147 contains the list of requirements for submissions.

In keeping with the X3T10.1 committee's new efforts for electronic document filing and distribution, Larry requested that electronic copies of all documents be made available to him. The electronic copies can be sent to ljlammers@corp.adaptec.com as an attached file. An alternative is to upload the file to the SCSI BBS or place it on the ftp site at ftp.symbios.com in \pub\standards\io\incoming. If one of the alternative methods is used an email should be sent to Larry advising him of the file name.

As usual, minutes are also available on the SCSI BBS (719-574-0424) and will be distributed to the SSA Reflector. To be added to the SSA Reflector, send an Email to majordomo@dt.wdc.com with the line 'subscribe ssa' in the message body.

The current document register is enclosure (3).

## Call for Patents

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

A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge. Annex I contains the ANSI patent policy.

## Review of Old Action Items

- 24) Bill Ham to generate rev 7 of PH1. Completed.
- 25) John Scheible to generate rev 8 of TL1. Completed.
- 26) Charles Monia to generate rev 5 of S2P. Completed.
- 27) Larry Lamers to report on electronic sites for X3T10.1. Completed.

1/95a230r0

## Project Status Reports

### 71 SSA Physical 20 (SSA-PH1) [Ham]

Bill Ham reported. Revision 7a was in the last mailing. Rev 7c has distributed at the meeting. See 95a231 for the PH1 working group report.

Significant work was done on refining the terminology used for links between SSA nodes..

Bill Ham moved and Larry Lamers seconded that the technical editor be directed to generate revision 8 including the recommendations of the working group. The motion carried 14:0:0.

### 72 SSA Transport Layer (SSA-TL1) [Scheible]

Larry Lamers reported. Revision 8 was in the last mailing. Revision 8a, was reviewed by the working group.

Words will be added describing the usage of tag values to clarify that they can be re-used once a response is returned. The only exception being tag values assigned for Async Alert notification. A statement that QUERY NODE may return a RESPONSE SMS will be deleted. A number of typographical errors were noted. There is a need for implementation guidelines regarding the depth of the queue for the Async Alert.

Larry Lamers moved and Charles Monia seconded that the technical editor be directed to generate revision 9 including the recommendations of the working group. The motion carried 16:0:0.

### 73 SSA SCSI-2 Protocol (SSA-S2P) [Monia]

Charles Monia reported. Revision 5 was in the mailing. Document 95a204 as modified will be incorporated in the next version.

Further work will continue on 95a201 regarding Exception Condition Interlock. There was extensive working group discussion but a consensus was not reached.

Larry Lamers moved and Charles Monia seconded that the technical editor be directed to generate revision 6 including the recommendations of the working group. The motion carried 16:0:0.

### 74 SSA SCSI-3 Protocol (SSA-S3P) [Monia]

Work on this project has been deferred until SSA-S2P is forwarded.

## Old Business

After the X3 Letter ballot passed on the new project requests in September, the following project numbers were assigned to X3T10.1 for new projects:

- PH1 - 1145D (assigned after the split of 989D into 2 parts and TL1 kept the 989D number)
- S2P - 1121D (No new number assigned, but a change from a Tech Report to a development project)
  
- PH2 - 1146D
- TL2 - 1147D

1/95a230r0

## New Business

### 91 Forwarding Motion

The chairman moved that SSA-PH1, (doc. X3T10.1-1145D) SSA-TL1, (doc. X3T10.1-989D) and SSA-S2P, (doc. X3T10.1-1121D) be forwarded to X3T10 for letter ballot and further processing. The motion carried 19 yes, 5 not voting.

Name	Company	Prin/Alt	Roll	Vote
Lawrence Lamers	Adaptec		2	Yes
Charles Brill	Amp, Inc		1	Yes
Michael Wingard	Amphenol Interconnect Products		1	Yes
Ian Morrell	Circuit Assembly Corp		1	Yes
Ben Chang	Cirrus Logic		2	Yes
Ed Carmona	Conner Peripherals, Inc		1	Yes
Bill Ham	Digital Equipment Corp.		1	Yes
Dal Allen	ENDL Associates		1	Absent
Kevin Pokorney	Fujitsu Computer Products of America		1	Absent
Nancy Chang	Hitachi Computer Products		1	Yes
Richard Rolls	IBM Corporation		2	Yes
Wolfgang Drichelt	ITT Cannon		2	Yes
Karl Nakamura	LSI Logic Inc.		1	Yes
Robert Bellino	Madison Cable		1	Absent
Greg Farrin	Micropolis		1	Absent
Gary Manchester	Molex		1	Yes
Mark DeWilde	Pathlight Technology		1	Yes
Ken Erickson	Samsung		1	Yes
David Deming	Solution Technology		1	Absent
Greg Kapraun	Symbios Logic Inc.		1	Yes
Michael Knowles	Tandem Computers		1	Yes
Ken Hallam	Unisys		1	Yes
Sam Sanyal	VLSI Technology, Inc.		2	Yes
Neil Edmunds	Xyratex		1	Yes

### 92 New Projects

Charles Monia asked if S3P will be backwards compatible with S2P. The goals and objectives of the next generation projects need consideration when those working groups start up next year. The response was that insofar as possible and practical, S3P protocol should be compatible with S2P protocol.

## Liaison Reports

### 101 SSA Industry Association [Hallam]

Ken Hallam reported. Comdex was a great success.

Neil Edmunds reported that Xyratex/Peer Protocols has developed a Protocol Compliance Test Specification. He also reported that a Plug Fest is planned for Milpitas, CA in February 1996 the week prior to the SSA meeting.

1/95a230r0

102 SFF [Scheible]

Bill Ham reported that the connector placement specification has been resolved and is being balloted.

If the industry agrees on an Enclosure Services Interface, (ESI) specification, then the question is how to adapt this to SSA? Gary Watson of Trimm Industries stated that there was considerable interest in mapping ESI to SSA and a method of transferring information needs to be worked out. It was agreed to have a study group work to scope the effort at the next SSA week in February.

## Action Items

- 28) Bill Ham to generate rev 8 of PH1.
- 29) John Scheible to generate rev 9 of TL1.
- 30) Charles Monia to generate rev 6 of S2P.
- 31) Larry Lamers coordinate with X3T10 the letter ballot on SSA-PH1, TL1, and S2P.

## Meeting Schedule

The next plenary meeting of X3T10.1 is scheduled for Wednesday, February 28, 1996 in Stateline, NV at Harrahs, hosted by Samsung. The meeting will begin at 3:00 p.m.

The long-term SSA week of meetings are scheduled as follows:

Week of April 29, 1996 in Burlington, VT hosted by IBM.

Week of June 24, 1996 in St. Petersburg Beach, FL hosted by AMP.

Week of August 26, 1996 in Ft. Collins, CO hosted by Symbios Logic, Inc.

Week of October 28, 1996 in San Jose, CA hosted by Adaptec.\*

Week of December 9, 1996 in Hawaii hosted by IBM.\*

Week of February 24, 1997 in Austin, TX hosted by \_\_\_\_\_.\*

\* = Tentative locations.

## Authorization of Working Group Meetings

Ken noted that the working group meetings are required to operate under the same voting procedures as does X3T10.1 (that is, one vote per organization) and the results of a working group are not binding on the parent committee. This later requirement is why we have traditionally only used non-binding straw polls in working group meetings. Any issue where the voting rules would make a difference should be deferred to the plenary group. Nonetheless, participants in a task group or ad hoc meeting should strive to achieve consensus prior to bringing issues to X3T10.1.

Ken Hallam moved and Greg Kapraun seconded that X3T10.1 authorize the following working group meetings. The motion passed unanimously.

X3T10.1 SSA2 Working Group - January 17-18, 1996 in Havant, UK.

X3T10.1 SSA Working Group - February 26-28, 1996 in Stateline, NV.

X3T10.1 SSA Study Group for Enclosures - February 29, 1996 in Stateline, NV

## Adjournment

The meeting was adjourned at 6:30 p.m. on Wednesday, December 13, 1995.

1/95a230r0

## Meeting Attendees -- Enclosure (1)

name	company	telephone	email
Lawrence Lamers	Adaptec	408-957-7817	ljlammers@aol.com
Charles Brill	Amp, Inc	717-592-6198	cebrill@amp.com
Lisa A. Huff	Amp, Inc	717-986-3143	lisa.huff@amp.com
Michael Wingard	Amphenol Interconnect Products	607-786-4241	
Ian Morrell	Circuit Assembly Corp	714-855-7887	crctassmbl@aol.com
Ben Chang	Cirrus Logic	510-226-2394	ben@cirrus.com
Ram Gopalan	Cirrus Logic	510-624-7081	gopalan@corp.cirrus.com
Ed Carmona	Conner Peripherals, Inc	408-456-4082	ed.carmona@conner.com
Paul Petersen	Conner Peripherals, Inc	408-456-4311	paul.petersen@conner.com
Bill Ham	Digital Equipment Corp.	508-841-2629	ham@subsys.enet.dec.com
Charles Monia	Digital Equipment Corp.	508-841-6757	monia@shr.dec.com
Nancy Cheng	Hitachi Computer Products	408-986-9770	n_cheng@hitachi.com
Ian Judd	IBM Corporation	011-44-1705-486363	ianjudd@vnet.ibm.com
Richard Rolls	IBM Corporation	408-256-3531	rolls@vnet.ibm.com
Wolfgang Drichelt	ITT Cannon	49-7151 699 233	
Karl Nakamura	LSI Logic Inc.	408-433-4516	karln@lsil.com
Gary Manchester	Molex	708-527-4043	
Mark DeWilde	Pathlight Technology	607-266-4000	mark@ironics.com
Ken Erickson	Samsung	408-434-5589	kerickso@samsung.com
Gary M. Watson	Sigma Trimm Technologies	702-263-2310	trimm@netcom.com
Greg Kapraun	Symbios Logic Inc.	970-225-4843	greg.kapraun@symbios.com
Michael Knowles	Tandem Computers	408-285-9957	knowles_michael@tandem.com
Ken Hallam	Unisys	714-380-5115	Ken.Hallam@mv.unisys.com
Brad Kitson	VLSI Technology, Inc.	408-434-7553	brad.kitson@ustc.vlsi.com
Sam Sanyal	VLSI Technology, Inc.	408-922-5371	sanyal_s@sanjose.vlsi.com
Neil Edmunds	Xyratex	011-44-1705-486363	nedmunds@vnet.ibm.com
Joseph Glider	Zitel	510-440-9600	jglider@zitel.com

1/95a230r0

List of Current Principal and Alternate Members of X3T10.1 -- Enclosure (2)

James M. Avery  
Adaptec  
6150 Lookout RD.  
Boulder CO. 80301

Lawrence Lamers  
Adaptec  
MS 95  
691 South Milpitas Blvd  
Milpitas CA 95035

Edward Fong  
Amdahl Corp  
1250 E. Arques Ave MS 354  
P.O. Box 3470  
Sunnyvale CA 94088-3470

Bob Atkinson  
Amp Inc  
449 Eisenhower Blvd  
Harrisburg PA 17105-3608

Charles Brill  
Amp Inc  
MS 210-020  
P.O. Box 3608  
Harrisburg PA 17105

Bill Mable  
Amphenol Interconnect Products  
20 Valley Street  
Endicott NY 13760

Michael Wingard  
Amphenol Interconnect Products  
20 Valley St.  
Endicott NY. 13760

Douglas Wagner  
Berg Electronics  
472 Delwood Court  
Newbury Park CA 91320-4819

Richard Wagner  
Cable Design Technologies  
28 Sword St.  
Auburn MA 01501

Ian Morrell  
Circuit Assembly Corp  
18 Thomas Street  
Irvine CA 92718

Dhiru N. Desai  
Cirrus Logic  
3100 West Warren Av.  
Fremont CA. 94538

Ed Carmona  
Conner Peripherals Inc  
2911 Zanker Road  
San Jose CA 95134

Paul Petersen  
Conner Peripherals Inc  
2911 Zanker Road  
MS 10-204  
San Jose CA 95134

Edward L. Grivna  
Cypress Semiconductor  
Data Communication Division  
2401 East 86th Street  
Bloomington MN 55425

Paul H. Scott  
Cypress Semiconductor  
Data Communication Division  
3901 N. First Street MS2.1-1  
San Jose CA 95134

Bill Ham  
Digital Equipment Corp.  
334 South Street  
SHR3-2/W8  
Shrewsbury MA 01545

1/95a230r0

Charles Monia  
Digital Equipment Corp.  
334 South Street  
Shrewsbury MA 01545

Mark Hamel  
EMC Corp.  
171 South Street  
Hopkinton MA 01748-9103

Samek Mokryn  
EMC Corp.  
171 South Street  
Hopkinton MA 01748-9103

Dal Allen  
ENDL Associates  
14426 Black Walnut Court  
Saratoga CA 95070

Kevin Pokorney  
Fujitsu Computer Products of America  
Intellistor R&D Operation  
2402 Clover basin Drive  
Longmont CO 80503

Paul Boulay  
Hitachi Computer Products  
3101 Tasman Drive  
Santa Clara CA 95054

Nancy Cheng  
Hitachi Computer Products  
3101 Tasman Drive  
Santa Clara CA 95054

Sam Karunanithi  
Hitachi Micro Systems Inc.  
179 east Tasman Drive  
San Jose CA 95134

Tom Kulesza  
Honda Connectors  
960 Corporate Woods Pkwy  
Vernon Hills IL 60061

Adge Hawes  
IBM Corporation  
Dept 26/19  
P.O. Box 6  
Havant Hants P09 1SA England

John Scheible  
IBM Corporation  
Building 815 MS 3950  
11400 Burnet Road  
Austin TX 75758

Rich Moore  
ITT Cannon  
3000 Alpine Rd.  
Menlo Park CA 94028

Monica Roy  
ITT Cannon  
1851 E. Deere Avenue  
Santa Ana CA 92626

Richard Egan  
LSI Logic Inc.  
1551 McCarthy Blvd.  
M/S G-780  
Milpitas CA 95035

Karl Nakamura  
LSI Logic Inc.  
1551 McCarthy Blvd  
M.S. G-713  
Milpitas CA 95035

Robert Bellino  
Madison Cable  
125 Goddard Memorial Drive  
Worcester MA 01603

1/95a230r0

Chuck Grant  
Madison Cable  
125 Goddard Memorial Drive  
Worcester MA 01603

Phil Bryan  
Micropolis  
15 Kenilworth Rd.  
SALE Cheshire M33-5DU  
England

Greg Farrin  
Micropolis  
21211 Nordhoff Street  
Chatsworth CA 91311

Kevin Alberts  
Molex  
2222 Wellington Court  
Lisle IL 60565

Gary Manchester  
Molex  
2222 Wellington Court  
Lisle IL 60532

Jay Neer  
Molex  
902 Clint Moore Road  
Suite 224  
Boca Raton FL 33487

Mark DeWilde  
Pathlight Technology  
767 Warrier Road  
Ithaca NY 14850

Said Rahmani  
Pathlight Technology  
767 Warren Rd.  
Ithaca NY 14850

Edward A. Gardner  
Quantum  
1262 Hofstead Terrace  
Colorado Springs CO 80907

Jim McGrath  
Quantum  
500 McCarthy Blvd  
Milpitas CA 95035

Ken Erickson  
Samsung  
3655 N. First St.  
San Jose CA. 95134-1713

Chuck Gibson  
Samsung  
3655 N. First Street  
San Jose CA 95134-1713

Gary M. Watson  
Sigma Trimm Technologies  
350 Pilot Rd.  
Las Vegas NV 89119

Stephen Finch  
Silicon Systems Inc  
14351 Myford Road  
Tustin CA 92680-7022

David Deming  
Solution Technology  
P.O. Box 104  
Boulder Creek CA 95006

Thai Nguyen  
Storage Technology Corp.  
2270 South 88th Street  
Louisville CO 80028-2140

Eric Oetting  
Storage Technology Corp.  
2270 South 88th Street  
Louisville CO 80028-2140

Greg Kapraun  
Symbios Logic Inc.  
2001 Danfield Court  
Fort Collins CO 80525

1/95a230r0

John Lohmeyer  
Symbios Logic Inc.  
1635 Aeroplaza Drive  
Colorado Springs CO 80916

Michael Knowles  
Tandem Computers  
10555 Ridgeview Court  
LOC 100-03  
Cupertino CA 95015-0789

Pete Tobias  
Tandem Computers  
10555 Ridgeview Ct.  
Cupertino CA. 95014

Kevin Ziegler  
Tandem Computers  
10555 Ridgeview Court  
LOC 100-03  
Cupertino CA 95015-0789

Ken Hallam  
Unisys  
25725 Jeronimo Road  
Mission Viejo CA 92691

Brad Kitson  
VLSI Technology Inc.  
1109 McKay Dr.  
SAN Jose CA 95131

Sam Sanyal  
VLSI Technology Inc.  
1109 McKay Drive MS 33  
San Jose CA 95131

Matt Kesler  
W.L. Gore & Associates  
4747 E. Beautiful Lane  
Phoenix AZ 85044

Tak Asami  
Western Digital  
8105 Irvine Center Drive  
Irvine CA 92718

Eric Griffith  
Western Digital  
8105 Irvine Center Drive  
Irvine CA 92718

X3T10.1 Minutes of Plenary Meeting #13

X3T10.

1/95a230r0

Jeff Stai  
Western Digital  
8105 Irvine Center Drive  
Irvine CA 92718

Neil Edmunds  
Xyratex  
Langstune Road  
Havant Hants UK

1/95a230r0

## Current Document Register of X3T10.1 -- Enclosure (3)

Number	Description	Author
X3T10.1/95a101R0	Copyright permission for Cypress Semiconductor documents	E. Grivna
X3T10.1/95a102R0	Mathematical Analysis of K228.5 Spectral Content	E. Grivna
X3T10.1/95a103R0	ACA text correction in SSA SCSI-2	J. Scheible
X3T10.1/95a104R0	Response to letter ballot on SSA SCSI-2 technical report	E. Gardner
X3T10.1/95a105R0	SSA Deadlock Problem	E. Gardner
X3T10.1/95a106R0	SSA Clarifications	E. Gardner
X3T10.1/95a107R0	Report on SSA-PH revision 3 changes	E. Gardner
X3T10.1/95a108R0	Minutes of X3T10.1 Working Group - 1/9/95	Ham/Hallam
X3T10.1/95a109R0	SSA Higher Data Rates	I. Judd
X3T10.1/95a110R0	Minutes of X3T10.1 Plenary Meeting #6 - January '95	K. Hallam
X3T10.1/95a111R0	Report on Editors Session	J. Scheible
X3T10.1/95a112R0	Incorrect LUN Handling	J. Scheible
X3T10.1/95a113R0	Initiator Table Reword	J. Scheible
X3T10.1/95a114R0	AST and AET in Data Transfer	J. Scheible
X3T10.1/95a115R0	Transport Services Model	J. Scheible
X3T10.1/95a115R1	Transport Services Model	J. Scheible
X3T10.1/95a115R2	Transport Services Model	J. Scheible
X3T10.1/95a116R0	Enhancements to frame format for SSA-PH (989D rev 3d)	J. Scheible
X3T10.1/95a117R0	Comments on SSA-PH rev 3d	J. Scheible
X3T10.1/95a118R0	Streams & Data Transfer SMS	J. Scheible
X3T10.1/95a119R0	Power-on Reset	I. Judd
X3T10.1/95a120R0	Project Realignment	L. Lamers
X3T10.1/95a121R0	Synthesized K28.5 Signal at 400 Mbits/sec	E. Grivna
X3T10.1/95a122R0	Extended byte checking for non-zero	G. Kapraun
X3T10.1/95a123R0	Minutes of X3T10.1 Working Group - 3/28-30/95	Lamers/Hallam
X3T10.1/95a124R0	Minutes of X3T10.1 Plenary Meeting #8 - 3/95	Lamers/Hallam
X3T10.1/95a125R0	Comments on SSA-TL1 rev 3e	E. Carmona
X3T10.1/95a126R0	Data Transfer SMSs reword proposal	J. Scheible
X3T10.1/95a127R0	Async alert handling rewrite	J. Scheible
X3T10.1/95a128R0	Error handling update proposal	J. Scheible
X3T10.1/95a128R2	Initiator Error Handling	J. Scheible
X3T10.1/95a129R0	SAM/S2P Services model proposal	J. Scheible
X3T10.1/95a129R1	SAM/S2P Services model proposal	J. Scheible
X3T10.1/95a129R2	SAM/S2P Services model proposal	J. Scheible
X3T10.1/95a130R0	SSA-S2P rev 1 comments	J. Scheible
X3T10.1/95a131R0	Configure Port SMS and Alarm Threshold	K. Erickson
X3T10.1/95a132R0	Deadlock Notes	E. Carmona
X3T10.1/95a133R0	SCSI Status SMS Enhancement	J. Scheible
X3T10.1/95a134R0	Project Proposal for SSA-PH1	Lamers/Scheible
X3T10.1/95a135R0	Project Proposal for SSA-PH2	Lamers/Scheible
X3T10.1/95a136R0	Project Proposal for SSA-TL1	Lamers/Scheible
X3T10.1/95a137R0	Project Proposal for SSA-TL2	Lamers/Scheible
X3T10.1/95a138R0	Project Proposal for SSA-S2P	Lamers/Scheible
X3T10.1/95a139R0	Project Proposal for SSA-S3P	Lamers/Scheible
X3T10.1/95a140R0	X3T10.1 Document Schedule for SSA	J. Scheible
X3T10.1/95a141R0	Proposed Solution to SSA deadlock	E. Carmona
X3T10.1/95a141R1	Proposed Solution to SSA deadlock	E. Carmona
X3T10.1/95a142R0	Comments on UIG-95 documents	E. Carmona
X3T10.1/95a143R0	New Link Connected	N. Apperly
X3T10.1/95a143R1	New Link Connected	N. Apperly
X3T10.1/95a144R0	Minutes of X3T10.1 Working Group - 4/24-26/95	Lamers/Hallam
X3T10.1/95a145R0	Transmission line concerns	E. Grivna
X3T10.1/95a146R0	Connections Recommendations	B. Ham
X3T10.1/95a147R0	Minutes of X3T10.1 Plenary Meeting #9 - April '95	Lamers/Hallam

X3T10.1 Minutes of Plenary Meeting #13

X3T10.

1/95a230r0

X3T10.1/95a148R0	Comments on SSA-TL1 rev 5	J. Scheible
X3T10.1/95a148R2	Comments on SSA-TL1 rev 5	J. Scheible
X3T10.1/95a149R0	SSA Document genealogy	J. Scheible
X3T10.1/95a150R0	Rename ACA terminology proposal	J. Scheible
X3T10.1/95a151R0	Comments on SSA-S2P rev 2	J. Scheible
X3T10.1/95a152R0	How to get Info on SSA	J. Scheible
X3T10.1/95a153R0	Comments on SSA-TL1 rev 5	N. Apperly
X3T10.1/95a154R0	Response to Apperly on SSA-SP2	J. Scheible
X3T10.1/95a155R0	Clarification of Line Faults	G. Kapraun
X3T10.1/95a156R0	Document Concerns	D. Deming
X3T10.1/95a157R0	Internal Connector Proposal #1	R. Stauch
X3T10.1/95a158R0	Internal Connector Proposal #2	R. Stauch
X3T10.1/95a159R0	Internal Connector Proposal #3	R. Stauch
X3T10.1/95a160R0	Internal Connector Presentation	R. Stauch
X3T10.1/95a161R0	SSA-PH1 Wording changes	B. Ham
X3T10.1/95a162R0	Minutes of X3T10.1 Working Group - 6/26-28/95	Lamers/Hallam
X3T10.1/95a163R0	Letter Ballot Results and Comments	J. Lohmeyer
X3T10.1/95a164R0	Out of Sync Async Reply Proposal	J. Scheible
X3T10.1/95a165R0	Channel Frame Reject Change Proposal	G.Kapraun
X3T10.1/95a165R1	Channel Frame Reject Change Proposal	G.Kapraun
X3T10.1/95a166R0	Port Table proposal	J. Scheible
X3T10.1/95a166R1	Port Table proposal	J. Scheible
X3T10.1/95a167R0	Minutes of X3T10.1 Plenary Meeting #10 - June '95	Lamers/Hallam
X3T10.1/95a168R0	SAT Reword Proposal	J. Scheible
X3T10.1/95a168R5	SAT Reword Proposal	J. Scheible
X3T10.1/95a169R0	SSA Solid State Resiliency Circuit	D. Bouvier
X3T10.1/95a170R0	SSA 40 MB Proposal	Murfet/Mason
X3T10.1/95a171R3	Comments on SSA-TL1 rev 6	J. Scheible
X3T10.1/95a172R1	Mode Page Clarifications for S2P	J. Scheible
X3T10.1/95a173R3	Comments on S2P rev 3	J. Scheible
X3T10.1/95a174R1	Clarification of 'Frame Less Than 6' Protocol Error Proposal	G. Kapraun
X3T10.1/95a175R0	Buffer Threshold in 20/40 MByte Webs Proposal	G. Kapraun
X3T10.1/95a176R0	SSA Port Speed Reporting	E. Carmona
X3T10.1/95a177R3	proposed working draft for SSA-PH1revision 5b	B. Ham
X3T10.1/95a177R4	proposed working draft for SSA-PH1revision 6a	B. Ham
X3T10.1/95a178R1	Physical Layer modifications for SSA-40	L. Lamers
X3T10.1/95a179R0	Transport Layer modifications for SSA-40	L. Lamers
X3T10.1/95a179R1	Transport Layer modifications for SSA-40	L. Lamers
X3T10.1/95a180R0	Proposal for Mode Bits	L. Lamers
X3T10.1/95a181R0	Proposal to Remove 8-byte Boundaries	L. Lamers
X3T10.1/95a182R1	Proposal for QUERY SWITCH SMS	L. Lamers
X3T10.1/95a182R4	Proposal for QUERY SWITCH SMS	L. Lamers
X3T10.1/95a182R5	Proposal for QUERY SWITCH SMS	L. Lamers
X3T10.1/95a183R0	Proposal to fix the length of QUERY PROTOCOL REPLY	L. Lamers
X3T10.1/95a183R1	Proposal to fix the length of QUERY PROTOCOL REPLY	L. Lamers
X3T10.1/95a184R0	Proposal for an OPERATION COMPLETE	L. Lamers
X3T10.1/95a185R1	Zero Fill SMS	J. Scheible
X3T10.1/95a186R1	Exiting Wrap Mode Considerations	E. Caroma
X3T10.1/95a187R0	Alternate Pathing in S2P	J. Scheible
X3T10.1/95a188R0	Minutes of X3T10.1 Working Group - 8/28-30/95	Lamers/Hallam
X3T10.1/95a189R0	Minutes of X3T10.1 Plenary Meeting #11 - August '95	Lamers/Hallam
X3T10.1/95a190R0	Precharging Proposal	P. Petersen
X3T10.1/95a190R1	Precharging Proposal	P. Petersen
X3T10.1/95a191R0	Minimum ESD Tolerance Spec for SSA-PH1	M. DeWilde
X3T10.1/95a192R0	Potential Live-Lock in SSA higher speeds	M. DeWilde
X3T10.1/95a193R0	SSA Port Speed Negotiation alternate Proposal	M. DeWilde
X3T10.1/95a194R0	Assumptions made in SSA-TL1 rev 7	J. Scheible

X3T10.1 Minutes of Plenary Meeting #13

X3T10.

1/95a230r0

X3T10.1/95a194R2	Assumptions made in SSA-TL1 rev 7	J. Scheible
X3T10.1/95a195R0	Link Reset Handler process	J. Scheible
X3T10.1/95a195R1	Link Reset Handler process	J. Scheible
X3T10.1/95a195R2	Link Reset Handler process	J. Scheible
X3T10.1/95a196R0	SFF-8342 SSA 3.5-inch Form Factor Connector Location	P. Petersen
X3T10.1/95a197R0	High Speed Serial Data Connector	C. Brill
X3T10.1/95a198R0	Configuration Process	L. Lamers
X3T10.1/95a198R2	Configuration Process	L. Lamers
X3T10.1/95a199R0	Proposal for Healthy Web	J. Scheible
X3T10.1/95a199R1	Proposal for Healthy Web	J. Scheible
X3T10.1/95a200R0	Comments on S2P rev 4a	J. Scheible
X3T10.1/95a200R1	Comments on S2P rev 4a	J. Scheible
X3T10.1/95a201R0	Extend the Queue Full mechanism to handle BUSY and RESERVATION CONFLICT	C. Monia
X3T10.1/95a201R3	Extend the Queue Full mechanism to handle BUSY and RESERVATION CONFLICT	C. Monia
X3T10.1/95a202R0	Allow a TL 1 initiator to perform SCSI target operations	C. Monia
X3T10.1/95a203R0	Define procedures for interlocked protocol emulation	C. Monia
X3T10.1/95a204R0	Restrict all transfers between a given initiator and target to a single path	C. Monia
X3T10.1/95a204R1	Restrict all transfers between a given initiator and target to a single path	C. Monia
X3T10.1/95a205R0	Extend the definition of a path to include the sender and receiver ports	C. Monia
X3T10.1/95a206R0	Overview of Proposed Approach to S2P Hot Swap and Fault Recovery	C. Monia
X3T10.1/95a207R0	Minutes of SSA Working Group - 10/95	Lamers/Hallam
X3T10.1/95a208R0	Proposal on Unique ID	M. DeWilde
X3T10.1/95a208R1	Proposal for Master Alert	M. DeWilde
X3T10.1/95a209R0	Proposal on Verify Initiator Table	M. DeWilde
X3T10.1/95a210R0	Proposal Loss of Initiator Table Space	M. DeWilde
X3T10.1/95a210R1	Proposal Interlocked election of Master	M. DeWilde
X3T10.1/95a210R2	Proposal Interlocked election of Master	M. DeWilde
X3T10.1/95a211R0	Proposal on Un-registering Initiators	M. DeWilde
X3T10.1/95a212R0	Proposal on Re-pathing Support	M. DeWilde
X3T10.1/95a213R0	Proposal on Async Alerts & S2P	M. DeWilde
X3T10.1/95a214R0	Speed Negotiation	I. Judd
X3T10.1/95a215R0	Minutes of X3T10.1 Plenary Meeting #12	Lamers/Hallam
X3T10.1/95a216R0	Status of SSA-2	J. Scheible
X3T10.1/95a217R0	SSA Electrical Study Group Minutes - 9/25/95	G. Kapraun
X3T10.1/95a218R1	Corrections for Configuration Process	A. Dailey
X3T10.1/95a219R0	Determining target status of initiators	A. Dailey
X3T10.1/95a220R1	Query Port Reply Clarification	A. Dailey
X3T10.1/95a221R0	Clarification of returned ULP	A. Dailey
X3T10.1/95a222R0	Non Master Capable Configutors	A. Dailey
X3T10.1/95a223R0	SMS Support for Speed Negotiation	A. Dailey
X3T10.1/95a224R0	Comments on SSA-TL1 rev 8	J. Scheible
X3T10.1/95a225R0	Triumvirate Speed Negotiation	G. Kapraun
X3T10.1/95a226R0	SAT Algorithm Extension for Switches	M. DeWilde
X3T10.1/95a227R0	TL1 support for SAT Regions	M. DeWilde
X3T10.1/95a228R0	Minutes of SSA Working Group - 12/95	Lamers/Hallam
X3T10.1/95a229R0	Additional QUERY PORT REPLY data	E. Carmona
X3T10.1/95a230R0	Minutes of X3T10.1 Plenary Meeting #13 - 12/95	Lamers/Hallam
X3T10.1/95a231R0	Report on PH1 Issues	B. Ham