

Accredited Standards Committee*
X3, Information Technology

Doc. No.: X3T10.1/96a132r0

Date: May 2, 1996

Project:

Ref. Doc.:

Reply to: Lawrence J. Lamers
ljlammers@aol.com

To: Membership of X3T10.1
From: Lawrence Lamers, Chair X3T10.1 (acting)
Subject: Minutes of X3T10.1 Plenary Meeting #15
South Burlington, VT -- May 1, 1996

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Approval of Minutes
5. Document Distribution
6. Call for Patents
7. Review of Old Action Items
8. Project Status Reports
 - 8.1 SSA Physical Layer 1 (SSA-PH1)
 - 8.2 SSA Transport Layer 1 (SSA-TL1)
 - 8.3 SSA SCSI-2 Protocol (SSA-S2P)
 - 8.4 SSA Physical Layer 2 (SSA-PH2) [Ham]
 - 8.5 SSA Transport Layer 2 (SSA-TL2) [Scheible]
 - 8.6 SSA SCSI-3 Protocol (SSA-S3P) [Scheible]
 - 8.7 Project Schedule
 - 8.8 ISO standards
9. New Business
10. Liaison Reports
 - 10.1 SSA Industry Association
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11. Review of Action Items
12. Meeting Schedule
 - 12.1 Meeting Map
 - 12.2 Long term meeting schedule
 - 12.3 Authorization of Working Group Meetings
13. Adjournment

Results of Meeting

1. Opening Remarks

Larry Lamers, the X3T10.1 Chair (acting), called the meeting to order at 3:00 p.m., Wednesday, May 1, 1996. He thanked Bernie Cummings of IBM for arranging and hosting the meeting.

Larry stated 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.

The X3T10.1 mailing is available in both paper and CD-ROM format. Contact Katrina Gray for subscription information. The CD-ROM version for the current mailing does not have the historical data due to problems with the production of the disc. These problems have been corrected and the next disc should contain the expected data.

The BBS has moved. The new number is 719-533-7950.

The SSA-IA web page has been recently updated and now reflects the current working drafts. Take a look at it.

Due recent events the meeting schedule for August, October, and December is likely to be affected. Please monitor the X3T10-SSA reflector for current information.

Greg Kapraun has resigned as Vice-Chair due to a change in his employer.

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.

2. Approval of Agenda

The draft agenda was approved as shown.

3. 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 Chair said he had sent letters to 7 people from 3 organizations informing them that their membership was in jeopardy due to non-attendance and that their membership would be terminated if they did not attend this meeting. All organizations were represented at this meeting except:

Hitachi
Circuit Assembly.

These organizations were 'terminated' (that is, the principals were changed to observers, first alternates, if any, were dropped, and any additional alternates were changed to observers). No organizations joined X3T10.1 at the meeting.

Unisys has terminated their membership. Madison Cable was purchased by AMP, Inc.

The X3T10.1 membership is now at 19 organizations. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current X3T10 membership list.

4. Approval of Minutes

Document X3T10.1/96a122r0, minutes of plenary meeting #14 were approved.

5. Document Distribution

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

The 1996 mailing subscription fees for mailing address within the USA are: \$470 for paper, \$300 for CD-ROM. The subscription fee for mailing addresses outside the USA are higher, please contact the X3 secretariat for additional information.

The deadline for the next mailing is noon, Wednesday, May 15, 1996. Documents received after this date will go into a subsequent mailing. Documents must be submitted in electronic form, using Word 6 format.

Documents may be submitted by any of the following methods:

- 1) an attachment to an email sent to ljlamers@corp.adaptec.com;
- 2) posting to the ftp site, [ftp.symbios.com](ftp://ftp.symbios.com), in the directory `/pub/standards/io/X3T10/incoming/temp`;
- 3) posting to the BBS, 714-574-0424, in area 26;
- 4) sending a floppy disk to
Lawrence J. Lamers
4611 Park Norton Place
San Jose, CA 95136-2523

Options 2 and 3 also require that you send an email to ljlamers@corp.adaptec.com with the file name of the document. Option 4 requires that you send the package allowing sufficient time for it to be delivered by noon of the deadline date.

The minutes will be distributed to the X3T10-SSA reflector. To be added to the SSA Reflector, send an Email to majordomo@symbios.com with the line 'subscribe x3t10-ssa' in the message body.

The X3 Secretariat maintains a World Wide Web page at <http://www.x3.org>. The SSA Industry Association maintains a World Wide Web page at <http://www.ssaia.org>.

The current document register is enclosure (3).

6. 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.

7. Review of Old Action Items

- 32) John Scheible to generate SSA-PH1 rev 9. Completed.
- 33) John Scheible to generate SSA-TL1 rev 10. Completed.
- 34) John Scheible to generate SSA-S2P rev 7. Completed.
- 35) Larry Lamers to transmit the comment resolution to X3T10. Completed.

8. Project Status Reports

8.1 SSA Physical Layer 1 (SSA-PH1)

X3T10 approved the comment resolution and revised draft. SSA-PH1 rev 9a will have a public review period of May 10, - July 10, 1996.

8.2 SSA Transport Layer 1 (SSA-TL1)

X3T10 approved the comment resolution and revised draft. SSA-TL1 rev 10 will have a public review period of May 10, - July 10, 1996.

8.3 SSA SCSI-2 Protocol (SSA-S2P)

X3T10 approved the comment resolution and revised draft. SSA-S2P rev 7 will have a public review period of May 10, - July 10, 1996.

8.4 SSA Physical Layer 2 (SSA-PH2) [Ham]

John Scheible had prepared a proposed working draft. The working group reviewed the document and recommended several proposals be included. See 96a130 for details.

Near-end termination with AC coupling was included.

Bill Ham moved and Neil Edmunds seconded that the recommendations of the working group be accepted and the technical editor be directed to prepare revision 1 incorporating them. The motion passed unanimously.

The consensus of the group was to not have PH2 supersede PH1. PH1 defines a directly coupled 20 MB/sec interface; PH2 defines an AC coupled 20 and 40 MB/sec interface. PH2 devices are intended to interoperate with PH1 devices.

Bill Ham moved and Mark DeWilde seconded that the HSSDC connector be added as an option to PH2. The motion failed 4:6:0.

8.5 SSA Transport Layer 2 (SSA-TL2) [Scheible]

John Scheible had prepared a proposed working draft. The working group reviewed the document and recommended several proposals be included. See 96a130 for details.

Extensions for an optimized XOR function were discussed. A proposal is expected for the next meeting.

John Scheible moved and Mark DeWilde seconded that the recommendations of the working group be accepted and the technical editor be directed to prepare revision 1 incorporating them. The motion passed unanimously.

8.6 SSA SCSI-3 Protocol (SSA-S3P) [Scheible]

A proposed working draft was not available so the discussion was based on modifications to S2P. The working group made several recommendations for the working draft. See 96a130 for details.

Hot swapping was dealt with by including an SMS that confirms status transfer. See 96a131r0.

John Scheible moved and Mark DeWilde seconded that the recommendations of the working group be accepted and the technical editor be directed to prepare revision 1 incorporating them. The motion passed unanimously.

8.7 Project Schedule

John Scheible review a schedule for the development of second generation SSA standards. Due to progress made, some of the dates have improved. The current plan calls for a technical stability vote for PH2 and TL1 at the next plenary meeting, with forwarding planned for October 1996. It is expected that S3P will be forwarded in February 1997.

8.8 ISO standards

The discussion focused on whether to process the first generation or the second generation for international standards. At this time the sentiment was to process the second generation.

9. New Business

None.

10. Liaison Reports

10.1 SSA Industry Association

Neil Edmunds reported. The hot swap and XOR issues were addressed with favorable resolution.

10.2 SFF Industry Group

Bill Ham reported there was no activity affecting SSA.

11. Review of Action Items

- 36) John Scheible to generate SSA-PH2 rev 1.
- 37) John Scheible to generate SSA-TL2 rev 1.
- 38) John Scheible to generate SSA-S3P rev 1.
- 39)

12. Meeting Schedule

The next plenary meeting of X3T10.1 will be June 26, 1996, in St. Petersburg Beach, FL at the Tradewinds Hotel (813) 562-1240, hosted by AMP. The meeting will begin at 3:00 p.m. on Wednesday

12.1 Meeting Map

The meeting map for the next SSA week is:

June '96 Meeting Map

Monday	9	10	11	12	1	2	3	4	5	6	7	8	
	+=====+												
	X3T10.1 Working Group												(25)
	+=====+												
Tuesday	9	10	11	12	1	2	3	4	5	6	7	8	
	+=====+												
	X3T10.1 Working Group												(25)
	+=====+												
Wednesday	9	10	11	12	1	2	3	4	5	6	7	8	
	+=====+												
	X3T10.1 Working Group X3T10.1 Plenary												(30)
	+=====+												

Meetings marked with == are X3T10.1-authorized meetings.

12.2 Long term meeting schedule

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

Week of August 26, 1996 in Ithaca, NY hosted by Pathlight.

Week of October 28, 1996 in Hawaii, hosted by IBM.

Week of February 24, 1997 in Austin, TX *.

Week of June 23, 1997 in Monterey, CA *.

Week of October 27, 1997 in Europe *.

Week of February 23, 1998 in *.

Week of June 22, 1998 in *.

Week of October 26, 1998 *.

* = Tentative locations.

Mark DeWilde moved and Dennis Moore seconded that the revised meeting schedule for X3T10.1 plenary meetings be approved. The motion carried 11:0.

12.3 Authorization of Working Group Meetings

The chair 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 traditionally only non-binding straw polls are used 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.

In the absence of any objection, X3T10.1 authorized the following meetings:

X3T10.1 Working Group, June 24-25, 1996 in St. Petersburg Beach, FL starting at 9:00am

13. Adjournment

The meeting was adjourned at 5:30 p.m. on Wednesday, May 1, 1996.

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
Chuck Grant	AMP, Inc/Madison Cable	508-752-2884 x725	charles_grant@madisonusa.cmail.c ompuserve.com
Bill Mable	Amphenol Interconnect	607-786-4236	
Michael Wingard	Amphenol Interconnect	607-786-4241	
Bill Ham	Digital Equipment Corp.	508-841-2629	ham@subsys.enet.dec.com
Sam Shimkage	Fujitsu (OADG)	408-764-9466	shimakage@fpsi.com
Daniel Tsai	IBM	408-256-5729	
John Scheible	IBM Corporation	512-823-8208	scheible@vnet.ibm.com
Wolfgang Drichelt	ITT Cannon	49-7151 699 233	101573.2601@compuserve.com
Dennis Moore	KnowledgeTek, Inc.	303-465-1800	dmoore@netcom.com
Gary Manchester	Molex, Inc.	708-527-4043	gmanchester@usa.molex.com
Kelly Tenuta	Molex, Inc.	708-527-4605	ktenuta@usa.molex.com
Mark DeWilde	Pathlight Technology	607-266-4000	mark@ironics.com
Said Rahmani	Pathlight Technology	607-226-4000	saidr@pathlight.com
Ken Erickson	Samsung	408-232-3641	kerickso@samsung.com
Jackson Wang	Tandem Computers	408-285-9914	wang_jackson@tandem.com
Sam Sanyal	VLSI Technology, Inc.	408-922-5371	sanyal_s@sanjose.vlsi.com
Neil Edmunds	Xyratex	011-44-1705-486363	neiledmunds@uk.xyratex.com
David E. Instone	Xyratex	01705 486363	dinstone@uk.xyratex.com

X3T10.1 Attendance Database - Enclosure (2)

name	company	telephone	email	
Lawrence Lamers	Adaptec	408-957-7817	ljlamers@aol.com	P
Edward Fong	Amdahl Corp	408-944-3780	esf10@amail.amdahl.com	O
Bob Atkinson	AMP, Inc	717-780-4274	rdatkins@amp.com	A
Charles Brill	AMP, Inc	717-592-6198	cebrill@amp.com	P
Robert Bellino	AMP, Inc/Madison Cable	508-752-7320		A
Bill Mable	Amphenol Interconnect Products	607-786-4236		A
Michael Wingard	Amphenol Interconnect Products	607-786-4241		P
Richard Wagner	Cable Design Technologies	508-791-3161	rwagner@mcddt3.iii.net	O
Ian Morrell	Circuit Assembly Corp	714-855-7887	crctassmbl@aol.com	O
Ben Chang	Cirrus Logic	510-226-2394	ben@cirrus.com	A
Ram Gopalan	Cirrus Logic	510-624-7081	gopalan@corp.cirrus.com	P
Bill Ham	Digital Equipment Corp.	508-841-2629	ham@subsys.enet.dec.com	P
Charles Monia	Digital Equipment Corp.	508-841-6757	monia@shr.dec.com	A
Kevin Pokorney	Fujitsu Computer Products of America	303-682-6449	pokorney@intellistor.com	O
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Tom Kulesza	Honda Connectors	708-913-9566		O
David McFadden	Honda Connectors	708-913-9566		O
Adge Hawes	IBM Corporation	011-44-1705-486363	adge@vnet.ibm.com	A
John Scheible	IBM Corporation	512-823-8208	scheible@vnet.ibm.com	P
Wolfgang Drichelt	ITT Cannon	49-7151 699 233	101573.2601@compuserve.com	A
Rich Moore	ITT Cannon	415-854-6977	ITTCANNON@AOL.COM	A
Monica Roy	ITT Cannon	714-757-8472	monicar@mailgw.cannon.itt.com	P
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Karl Nakamura	LSI Logic Inc.	408-433-4516	karln@lsil.com	P
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Greg Farrin	Micropolis	818-709-3463		P
Gary Manchester	Molex, Inc.	708-527-4043	gmanchester@usa.molex.com	P
Jay Neer	Molex, Inc.	407-241-9371 x3889	jneer@usa.molex.com	A
Mark DeWilde	Pathlight Technology	607-266-4000	mark@ironics.com	P
Said Rahmani	Pathlight Technology	607-226-4000	saidr@pathlight.com	A
Ken Erickson	Samsung	408-232-3641	kerickso@samsung.com	P
Chuck Gibson	Samsung	408-232-3613	cgibson@samsung.com	A
Kazushige Yoshino	Sanyo Electric Co., Ltd.	415-960-8582		O
Stephen Finch	Silicon Systems, Inc	714-573-6808	5723283@mcimail.com	P
David Deming	Solution Technology	408-338-4285	ddeming@scruznet.com	P
John Lohmeyer	Symbios Logic Inc.	719-573-3362	john.lohmeyer@symbios.com	P
Michael Knowles	Tandem Computers	408-285-9957	knowles_michael@tandem.com	A
Pete Tobias	Tandem Computers	408-285-9913	tobias_pete@tandem.com	A
Jackson Wang	Tandem Computers	408-285-9914	wang_jackson@tandem.com	P
Gary M. Watson	Trimm Technologies	702-263-2310	trimm@netcom.com	P
Brad Kitson	VLSI Technology, Inc.	408-434-7553	brad.kitson@ustc.vlsi.com	P
Sam Sanyal	VLSI Technology, Inc.	408-922-5371	sanyal_s@sanjose.vlsi.com	A
Neil Edmunds	Xyratex	011-44-1705-486363	neiledmunds@uk.xyratex.com	P
Herb Silverman	Xyratex	714-476-1016	herb@cerf.net	A

X3T10.1 Document Database - Enclosure (3)

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	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
X3T10.1/95a148R0	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	G. Kapraun
X3T10.1/95a175R0	Buffer Threshold in 20/40 MByte Webs Proposal	G. Kapraun
X3T10.1/95a175R1	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
X3T10.1/95a178R2	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
X3T10.1/95a194R2	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
X3T10.1/95a197R1	High Speed Serial Data Connector (HSSDC) Alternative	L. Huff
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
X3T10.1/95a207R1	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
X3T10.1/95a224R1	Comments on SSA-TL1 rev 8	J. Scheible
X3T10.1/95a225R1	SSA Speed Negotiation	G. Kapraun
X3T10.1/95a225R2	SSA Speed Negotiation	G. Kapraun
X3T10.1/95a226R0	SAT Algorithm Extension for Switches	M. DeWilde
X3T10.1/95a227R0	TL1 support for SAT Regions	M. DeWilde

X3T10.1/95a227R2	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
X3T10.1/96a101R0	Minutes of SSA 2nd Generation Working Group - 1/96	Ham/Lamers
X3T10.1/96a102R0	Effects of Mis-Termination	B. Ham
X3T10.1/96a103R0	Effects of Capacitance on Signals	D. Instone
X3T10.1/96a104R0	Source Termination Options	P. Murfet
X3T10.1/96a105R0	Alternatives for Source Termination	C. Parker
X3T10.1/96a106R0	Test Results on SSA-40	Cordey-Gale
X3T10.1/96a107R0	RSN field in Link Status Byte	I. Judd
X3T10.1/96a108R0	Eye patterns for SSA External Cable Assemblies	L. Huff
X3T10.1/96a109R0	SSA TDR Measurements	D. Instone
X3T10.1/96a110R0	Discard & Queue Async Alert	J. Scheible
X3T10.1/96a110R1	Discard & Queue Async Alert	J. Scheible
X3T10.1/96a111R0	2nd Generation Documents	j. Sceible
X3T10.1/96a111R2	2nd Generation Documents	J. Scheible
X3T10.1/96a112R0	Progressive Speed Negotiation	C. Parker
X3T10.1/96a113R0	Simple 40/20 Speed Negotiation	J. Scheible
X3T10.1/96a113R3	Simple 40/20 Speed Negotiation	J. Scheible
X3T10.1/96a114R0	ANSI Style guidelines.	J. Scheible
X3T10.1/96a115R0	Editorial comments on SSA-TL1 rev 9	J. Scheible
X3T10.1/96a115R1	Editorial comments on SSA-TL1 rev 9	J. Scheible
X3T10.1/96a116R1	SSA-PH1 Letter Ballot Comment Resolution	J. Scheible
X3T10.1/96a117R2	SSA-TL1 Letter Ballot Comment Resolution	J. Scheible
X3T10.1/96a118R1	SSA-S2P Letter Ballot Comment Resolution	J. Scheible
X3T10.1/96a119R0	Extensions to Simple Speed Negotiation	A. Hawes
X3T10.1/96a120R0	Minutes of X3T10.1 Working Group - 2/26-28/96	L. Lamers
X3T10.1/96a121R0	Async Alert Queue Depth	J. Scheible
X3T10.1/96a122R0	Minutes of X3T10.1 Plenary Meeting #14 - 2/28/96	L. Lamers
X3T10.1/96a123R0	Impedance Measurements of micro-D Connector	W. Drichelt
X3T10.1/96a124R0	Empirical/Analytical Test Results for Internal Connector	D. Bunker
X3T10.1/96a125R0	Phy Functional Test Report	V. Pecone
X3T10.1/96a126R0	Annex G revision for PH1	B. Ham
X3T10.1/96a127R0	Device Interface for Enclosures	A. Hawes
X3T10.1/96a128R0	Schedule for 2nd Generation SSA	J. Scheible
X3T10.1/96a129R0	Presentation on TCP/IP Work in Progress	M. DeWilde
X3T10.1/96a130R0	Minutes of X3T10.1 Working Group - April '96	L. Lamers
X3T10.1/96a131R0	Status Verficiation	J. Scheible
X3T10.1/96a132R0	Minutes of X3T10.1 Plenary Meeting #15	L. Lamers
X3T10.1/96a133R0	Hot Swap Issues for Tape Devices	C. Monia
X3T10.1/96a134R0	Opportunities for XOR on SSA	A. Hawes
X3T10.1/96a135R0	Comparison of termination methods for SSA40	P. Murfet
X3T10.1/96a136R0	S3P Services Model	J. Scheible
X3T10.1/96a137R0	Termination schemes for PH2	P. Murfet
X3T10.1/96a138R0	MDSM Transfer Imepedance Results	W. King