

Accredited Standards Committee*
X3, Information Technology

Doc. No.: X3T10.1/96a157r0
Date: August 30, 1996
Project:
Ref. Doc.:
Reply to: Larry Lamers
ljlammers@aol.com

To: Membership of X3T10.1
From: Lawrence Lamers, Chair X3T10.1
Subject: Minutes of X3T10.1 Plenary Meeting #17
Ithaca, NY --- August 28, 1996

Agenda

1. Opening Remarks
2. Approval of Agenda
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 - 8.2 SSA Transport Layer 1 (SSA-TL1)
 - 8.3 SSA SCSI-2 Protocol (SSA-S2P)
 - 8.4 SSA Physical Layer 2 (SSA-PH2) [Tsai]
 - 8.5 SSA Transport Layer 2 (SSA-TL2) [Scheible]
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Results of Meeting

1. Opening Remarks

The chairman called the meeting to order at 3:00 p.m., Wednesday, August 28, 1996. He thanked Mark DeWilde of Pathlight for arranging and hosting the meeting.

The chairman 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.

As is customary, the people attending introduced themselves and a copy of the attendance list was circulated.

2. Approval of Agenda

The draft agenda was approved as amended.

3. Attendance and Membership

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

The principal member holds the voting rights, or in their absence an alternate or a designated alternate may vote. A designated alternate is required to present a letter to the chair, from the principal member, designating them as an alternate for the meeting.

Organizations must also pay the X3 Service Fee (\$300) to maintain membership. Organizations are terminated for non-payment based on a control sheet received from the X3 secretariat.

The Chair said he had sent letters to 4 people from 2 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:

Symbios Logic, Inc.
Tandem Computers

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.

Due to a misunderstanding of the sign-in requirements Bill Mable of Amphenol Interconnect was not listed in attendance at the previous meeting.

The chair moved and the vice-chair seconded that Amphenol Interconnect be reinstated as voting members. The motion carried 9:0.

David Deming requested reinstatement as a voting member. He had been unable to meet the meeting requirements due to extenuating circumstances. The chair moved and the vice-chair seconded that Solution Technology be reinstated as voting members. The motion carried 10:0

The X3T10.1 membership is now at 13 organizations:

Adaptec
AMP, Inc.
Amphenol Interconnect Products
Digital Equipment Corp.
IBM Corporation
ITT Cannon
Madison Cable
Molex, Inc.
Pathlight Technology
Samsung
Solution Technology
VLSI Technology, Inc.
Xyratex

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

4. Approval of Minutes

Document X3T10.1/96a148r1, minutes of plenary meeting #16 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, September 18, 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/ temp;
- 3) posting to the BBS, 714-533-7950, in area 33 ;
- 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 1996 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

- 39) John Scheible to generate SSA-PH2 rev 2. Completed.
- 40) John Scheible to generate SSA-TL2 rev 2. Completed.
- 41) John Scheible to generate SSA-S3P rev 2. Completed.

8. Project Status Reports

8.1 SSA Physical Layer 1 (SSA-PH1)

The chairman reported that the X3 letter ballot ends October 4, 1996.

8.2 SSA Transport Layer 1 (SSA-TL1)

The chairman reported that the X3 letter ballot ends October 4, 1996.

8.3 SSA SCSI-2 Protocol (SSA-S2P)

The chairman reported that the X3 letter ballot ends October 4, 1996.

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

John Scheible had prepared a proposed working draft. The working group recommended 96a142r4 be incorporated into the working draft. See the working group minutes for details (96a156).

John Scheible moved and Neil Edmunds seconded that SSA-PH2 revision 2 be accepted as the current working draft for project 1146-D. The motion carried 9:0:0.

Mark DeWilde moved and Daniel Tsai seconded that the recommendations of the working group be accepted and to direct the technical editor to generate revision 3 of the working draft. The motion carried 10:0:0.

Daniel Tsai reported that an interim working group will be held for SSA-PH2 on September 24-25, 1996 in the Boston area. An announcement will be posted on the reflector as soon as arrangements are completed.

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

John Scheible had prepared a proposed working draft. The working group recommended that documents 96a150r1, 96a160r0, 96a161r1, and 96a163r0 be incorporated into the working draft. See the working group minutes for details (96a156).

John Scheible moved and Neil Edmunds seconded that SSA-TL2 revision 2 be accepted as the current working draft for project 1147-D. The motion carried 9:0:0.

Mark DeWilde moved and Daniel Tsai seconded that the recommendations of the working group be accepted and to direct the technical editor to generate revision 3 of the working draft. The motion carried 10:0:0.

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

John Scheible had prepared a proposed working draft. The working group reviewed the document and recommended that documents 96a159r1, and 96a160r1 be incorporated into the working draft. See the working group minutes for details (96a156).

John Scheible moved and Neil Edmunds seconded that SSA-PH2 revision 2 be accepted as the current working draft for project 1051-D. The motion carried 9:0:0.

Mark DeWilde moved and Daniel Tsai seconded that the recommendations of the working group be accepted and to direct the technical editor to generate revision 3 of the working draft. The motion carried 10:0:0.

8.7 Project Schedule

John and Larry reviewed the project schedule. The target for forwarding the second generation draft standards is October '96. The October working group is charged with completing a review of the working drafts.

The chair indicated that he would prepare a schedule for the post-forwarding processing to clarify the steps and time frames.

9. New Business

9.1 Electronic Mailing

The chair moved and the vice-chair seconded that X3T10.1 membership has no reservations regarding the discontinuance of a paper mailing starting in 1997. The motion carried 11:0:0.

9.2 Change of Meeting Schedule

The chair moved and the vice-chair seconded that the October 1997 plenary meeting be moved to October 1, 1997, with the working group scheduled for September 29 - October 1, 1997. The motion carried 11:0:0.

9.3 Alternate Connector

Mike Wingard moved and Mark DeWilde seconded a motion to reconsider the motion taken at the 15th plenary meeting (see 96a132r0) regarding the HSSDC connector. The motion carried 8:3:0. [The connector is described in 95a197r1 in the second X3T10.1 mailing of 1996.](#)

Mike stated that in light of additional information and as a result of market demands Amphenol Interconnect now believes that the HSSDC connector is needed. He further stated that incorporating the HSSDC connector as an alternative should convince AMP of the merits of releasing connector kits so cable assembly manufacturers could provide products.

Adge Hawes stated that a single connector for external attachment has been a significant marketing advantage and the test data indicates that the currently defined connector meets the performance requirements for SSA-PH1 and SSA-PH2.

The motion as reported in minutes of X3T10.1 plenary meeting #15 is "...that the HSSDC connector be added as an option to PH2." The motion carried 8:3:0.

10. Liaison Reports

10.1 SSA Industry Association

Neil Edmunds reported that the study for future enhancements would meet on Thursday morning, August 29, 1996. He reported that the majority of items on the SSA-IA list have been addressed.

10.2 SFF Industry Group

No report.

11. Review of Action Items

- 42) John Scheible to generate SSA-PH2 rev 3.
- 43) John Scheible to generate SSA-TL2 rev 3.
- 44) John Scheible to generate SSA-S3P rev 3.
- 45) Larry Lamers to prepare detailed schedule for working drafts following forwarding.

12. Meeting Schedule

The next plenary meeting of X3T10.1 will be October 30, 1996, in Lahaina, HI at the Maui Marriott on Kaanapali Beach, hosted by IBM. The meeting will begin at 3:00 p.m. on Wednesday.

Attendees should contact Mark Cunningham for reservations at:

Tel: 808-667-8215
Fax: 808-667-8181

12.1 Meeting Map

The meeting map for the next SSA week is:

October '96 Meeting Map

Sunday	9 10 11 12 1 2 3 4 5 6 7 8	
	+=====+	
	3rd Generation Study Group	(15)
	+=====+	
Monday	9 10 11 12 1 2 3 4 5 6 7 8	
	+=====+	
	X3T10.1 Working Group	(30)
	+=====+	
Tuesday	9 10 11 12 1 2 3 4 5 6 7 8	
	+=====+	
	X3T10.1 Working Group	(30)
	+=====+	
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 schedule for X3T10.1 plenary meetings is:

February 26, 1997 in Austin, TX hosted by IBM.

June 25, 1997 in Monterey, CA hosted by VLSI/Solution Technology.

October 1, 1997 in Stuttgart, Germany hosted by ITT Cannon.

February 25, 1998 in Austin TX hosted by IBM.*

* = Tentative locations.

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, October 28-30, 1996 in Lahaina, HI starting at 9:00am

X3T10.1 SSA-PH2 working group, September 24-25, 1996 in the Boston area.

coordinated by Daniel Tsai (tsaidaniel@vnet.ibm.com).

13. Adjournment

The meeting was adjourned at 5:30 p.m. on Wednesday, August 28, 1996.

Meeting Attendees -- Enclosure (1)

Lawrence Lamers	Adaptec	408-957-7817	ljlamers@aol.com
Charles Brill	AMP, Inc	717-592-6198	cebrill@amp.com
Bill Mable	Amphenol Interconnect Products	607-786-4236	
Michael Wingard	Amphenol Interconnect Products	607-786-4241	mikwingard@aol.com
Bill Ham	Digital Equipment Corp.	508-841-2629	ham@subsys.enet.dec.com
Adge Hawes	IBM Corporation	011-44-1705-486363	adge@uk.ibm.com
George Krembs	IBM Corporation	914-433-8449	
John Scheible	IBM Corporation	512-823-8208	scheible@vnet.ibm.com
Daniel Tsai	IBM Corporation	408-256-5729	tsaidaniel@vnet.ibm.com
Wolfgang Drichelt	ITT Cannon	49-7151 699 233	101573.2601@compuserve.com
Chuck Grant	Madison Cable	508-752-2884 x725	charles_grant@madisonusa.cc mail.compuserve.com
Kelly Tenuta	Molex, Inc.	708-527-4043	ktenuta@molex.com
Mark DeWilde	Pathlight Technology	607-266-4000	mark@pathlight.com
David Deming	Solution Technology	408-338-4285	ddeming@scruznet.com
Brad Kitson	VLSI Technology, Inc.	408-434-7553	brad.kitson@ustc.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 Membership, Principals, Alternates & Observers - Enclosure (2)

Lawrence Lamers	Adaptec	408-957-7817	ljlammers@aol.com
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David McFadden	Honda Connectors	708-913-9566	
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John Ciccone	VLSI Technology, Inc.	602-752-6233	zack.ciccone@tempe.vlsi.c om
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Stephen Nemetz	VLSI Technology, Inc.	602-752-6240	steve.nemetz@tempe.vlsi. com
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Mike Hilford	Xyratex	714-476-1016	
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Roger Nixon	Xyratex	603-642-7808	71740.3316@compuserve. com

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X3T10.1 1996 Document Register - Enclosure (3)

X3T10.1/95a133R1	SCSI Status SMS Enhancement	J. Scheible
X3T10.1/95a175R1	Buffer Threshold in 20/40 MByte Webs Proposal	G. Kapraun
X3T10.1/95a178R2	Physical Layer modifications for SSA-40	L. Lamers
X3T10.1/95a197R1	High Speed Serial Data Connector (HSSDC) Alternative	L. Huff
X3T10.1/95a201R3	Extend the Queue Full mechanism to handle BUSY and RESERVATION CONFLICT	C. Monia
X3T10.1/95a204R1	Restrict all transfers between a given initiator and target to a single path	C. Monia
X3T10.1/95a207R1	Minutes of SSA Working Group - 10/95	Lamers/Hallam
X3T10.1/95a210R3	Interlocked Election of Master Process - Simplified Version	M. DeWilde
X3T10.1/95a222R0	Non Master Capable Configutors	A. Dailey
X3T10.1/95a223R0	SMS Support for Speed Negotiation	A. Dailey
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
X3T10.1/96a113R0	Simple 40/20 Speed Negotion	J. Scheible
X3T10.1/96a113R3	Simple 40/20 Speed Negotion	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
X3T10.1/96a127R2	Device Services Interface	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
X3T10.1/96a134R1	Third Party Data Transfers	A. Hawes
X3T10.1/96a135R0	Comparison of termination methods for SSA40	P. Murfet
X3T10.1/96a136R0	S3P Services Model	J. Scheible
X3T10.1/96a136R2	S3P Services Model	J. Scheible
X3T10.1/96a137R0	Termination schemes for PH2	P. Murfet
X3T10.1/96a138R0	MDSM Transfer Imepedance Results	W. King
X3T10.1/96a139R0	Presentation to Tape Folks	J. Scheible
X3T10.1/96a140R2	Third Party Support proposal for S3P	J. Scheible
X3T10.1/96a141R1	Entend Buffer Full condition to BUSY	J. Scheible
X3T10.1/96a142R1	SSA-PH2 changes proposal	J. Scheible
X3T10.1/96a142R2	SSA-PH2 changes proposal	J. Scheible
X3T10.1/96a143R0	Resurrection of Longer full speed Link proposal	M. DeWilde
X3T10.1/96a144R0	Notification of Change in ULPs supported	M. DeWilde
X3T10.1/96a145R1	TL2 Configutor Table Management Support	M. DeWilde
X3T10.1/96a146R1	Changes to TL2 Rev 1	J. Scheible
X3T10.1/96a147R1	Minutes of Working Group - 6/96	L. Lamers
X3T10.1/96a148R1	Minutes of Plenary Meeting #16 - 6/96	L. Lamers
X3T10.1/96a149R0	Jitter Nulling	D. Instone
X3T10.1/96a150R0	Read-Modify-Write Support in TL2	A. Hawes
X3T10.1/96a150R1	Read-Modify-Write Support in TL2	A. Hawes
X3T10.1/96a151R0	MDSM High Frequency Characteristics	W. Pfitzenreiter
X3T10.1/96a152R0	SSA Optical Converter	V. Melendy
X3T10.1/96a153R0	Analysis of Termination	P. Murfet
X3T10.1/96a154R0	Clarification of absolute and total reset use and effects	M. DeWilde
X3T10.1/96a155R0	Comments on TL2 and S3P	M. DeWilde
X3T10.1/96a156R0	Minutes of Working Group Meeting - 8/96	L. Lamers
X3T10.1/96a157R0	Minutes of Plenary Meeting #17	L. Lamers
X3T10.1/96a158R0	Test Environment for Port Connection Segments	D. Instone
X3T10.1/96a159R0	SSA-S3P changes for SSA validation	J. Scheible
X3T10.1/96a160R0	Limited SMS handling for switches proposal	J. Scheible
X3T10.1/96a161R0	AER reporting between ULP and TL2 layers	J. Scheible
X3T10.1/96a162R0	Tape Requirements and Issues	G. Kembs
X3T10.1/96a163R0	Change format of Configator Table	J. Scheible