

Accredited Standards Committee*
InterNational Committee for Information Technology Standards (INCITS)

Doc. No.: T10/02-385r0

Date: September 24, 2002

Reply to: John Lohmeyer

To: T10 Membership
From: John Lohmeyer
Subject: SAS Protocol Teleconference -- September 24, 2002

Agenda

1. Opening Remarks
2. Approval of Agenda
3. Attendance and Membership
4. Old Business
 - 4.1 SAS Working Draft Review [Elliott]
 - 4.2 SAS Port Control State Diagram Update (02-202) [Worden]
 - 4.3 Arbitration clarification (02-222) [Galloway]
 - 4.4 SAS Combined Request-Confirmation List (02-276) [Worden]
 - 4.5 SAS Data Transfer Rules (02-318) [Gardner]
 - 4.6 SAS Relative Offset (02-319) [Gardner]
 - 4.7 SAS Data Corruption Problem (02-323) [Gardner]
 - 4.8 SAS Spinup (02-360) [Elliott]
 - 4.9 SAS Disconnect-Reconnect Mode Parameters (02-324) [Gardner]
 - 4.10 Details of SAS Expander Configuration (02-359) [Fairchild]
 - 4.11 STP Initiators closing connections (02-363) [Day]
 - 4.12 Informative Annex on Expanders (02-291) [Hoglund]
5. New Business
 - 5.1 SAS SSP Task IU 28 bytes instead of 32 bytes? [Galloway/Elliott]
 - 5.2 SAS Programmable PPTOV (02-387) [Hoglund]
 - 5.3 SAS Change Notification Proposal (02-383) [Reif]
6. Review of Recommendations to the Plenary
7. Meeting Schedule
8. Adjournment

Results of Meeting

1. Opening Remarks

John Lohmeyer called the meeting to order at 9:00 a.m. MDT, Tuesday, September 24, 2002. He thanked George Penokie for hosting the call and Jim Coomes for hosting the WebEx session.

2. Approval of Agenda

The draft agenda was approved with the following changes:

- 5.2 SAS Programmable PPTOV (02-387) [Hoglund]
- 5.3 SAS Change Notification Proposal (02-383) [Reif]

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No items were added/revised during the course of the meeting.

3. Attendance and Membership

Attendance at working group meetings does not count toward minimum attendance requirements for T10 membership. Working group meetings are open to any person or organization directly and materially affected by T10's scope of work. The following people attended the meeting:

Name	S	Organization	Electronic Mail Address
Mr. Ron Roberts	P	Adaptec, Inc.	Ron_Roberts@adaptec.com
Mr. Kyle Sterling	V	Adaptec, Inc.	ksterlin@corp.adaptec.com
Mr. Bill Galloway	P	BREA Technologies, Inc.	billg@breatech.com
Mr. Rob Elliott	P	Hewlett Packard Co.	Elliott@hp.com
Mr. Steven Fairchild	V	Hewlett Packard Co.	Steve.Fairchild@hp.com
Mr. Jim Reif	V	Hewlett Packard Co.	jim.reif@hp.com
Mr. Matt Otto	V	I-TECH Corp.	matt_otto@i-tech.com
Mr. George O. Penokie	P	IBM / Tivoli Systems	gop@us.ibm.com
Mr. Dan Colegrove	V	IBM Corp.	dcolegro@us.ibm.com
Mr. Edward Younk	V	IBM Corp.	ehyounh@us.ibm.com
Mr. Pak Seto	V	Intel	pak-lung.seto@intel.com
Mr. Robert Sheffield	A	Intel Corp.	robert.l.sheffield@intel.com
Mr. John Lohmeyer	P	LSI Logic Corp.	lohmeier@t10.org
Mr. Brian Day	V	LSI Logic Corp.	brian.day@lsil.com
Mr. Tim Hogleund	V	LSI Logic Corp.	tim.hogleund@lsil.com
Mr. Brad Besmer	V	LSI Logic Corp.	brad.besmer@lsil.com
Mr. Mark Evans	P	Maxtor Corp.	mark_evans@maxtor.com
Mr. Steve Byan	V	Maxtor Corp.	stephen_byan@maxtor.com
Mr. Ting Li Chan	V	QLogic Corp.	ting.chan@qlogic.com
Mr. Arie Krantz	V	QLogic Corp.	l_krantz@qlc.com
Mr. Jim Coomes	V	Seagate Technology	jim.coomes@seagate.com
Mr. John Worden	V	Seagate Technology	john.worden@seagate.com
Mr. Scott Younger	V	Seagate Technology	Scott.Younger@seagate.com

23 People Present

Status Key: P - Principal
 A,A# - Alternate
 AV - Advisory Member
 L - Liaison
 V - Visitor

4. Old Business

4.1 SAS Working Draft Review [Elliott]

This item was deferred due to the late hour.

4.2 SAS Port Control State Diagram Update (02-202) [Worden]

John Worden presented 02-202r3, SAS Port Control State Diagram Update. He received input and agreed to revise his proposal. John Worden moved and Ron Roberts seconded that 02-202r4 (r3 as revised) be recommended for inclusion in SAS. The motion passed unanimously.

4.3 Arbitration clarification (02-222) [Galloway]

Bill Galloway asked that this item be removed from future agendas.

4.4 SAS Combined Request-Confirmation List (02-276) [Worden]

John Worden presented 02-276r2, SAS Combined Request-Confirmation List. He received input and agreed to revise his proposal. John Worden moved and George Penokie seconded that 02-276r3 (r2 as revised) be recommended for inclusion in SAS. The motion passed unanimously.

4.5 SAS Data Transfer Rules (02-318) [Gardner]

The group reviewed 02-318r1, SAS Data Transfer Rules. Rob Elliott moved and Bill Galloway seconded that 02-318r1 be recommended for inclusion in SAS. The motion passed unanimously.

4.6 SAS Relative Offset (02-319) [Gardner]

In the absence of Ed Gardner, this item was deferred.

4.7 SAS Data Corruption Problem (02-323) [Gardner]

In the absence of Ed Gardner, this item was deferred.

4.8 SAS Spinup (02-360) [Elliott]

Rob Elliott asked that this item be deferred.

4.9 SAS Disconnect-Reconnect Mode Parameters (02-324) [Gardner]

In the absence of Ed Gardner, this item was deferred.

4.10 Details of SAS Expander Configuration (02-359) [Fairchild]

Steve Fairchild presented 02-359r1, Details of SAS Expander Configuration. Steve had posted 02-359r1.pdf and 02-359r1.zip the previous day. The ZIP file includes source code and a simulation executable file. He received input and agreed to revise his proposal.

4.11 STP Initiators closing connections (02-363) [Day]

Brian Day presented 02-363r1, STP Initiators closing connections. He received input and agreed to revise his proposal.

4.12 Informative Annex on Expanders (02-291) [Hoglund]

Tim Hoglund asked that this item be deferred.

5. New Business

5.1 SAS SSP Task IU 28 bytes instead of 32 bytes? [Galloway/Elliott]

Bill Galloway suggested that the SSP Task IU be shorted to 28 bytes. Jim Coomes noted that variable length CDBs require variable length command IUs.

Bill Galloway moved that we recommend to T10 that the SSP Task IU be changed to 28 bytes to match the command IU by removing the last 4 reserved bytes. Ron Roberts seconded that motion. The motion passed unanimously.

5.2 SAS Programmable PPTOV (02-387) [Hoglund]

This item was deferred due to the late hour.

5.3 SAS Change Notification Proposal (02-383) [Reif]

Jim Reif discussed his 02-383r0 proposal on changes to the CHANGE notification. He received input. Due to the late hour, we agreed to consider the proposal again next week.

6. Review of Recommendations to the Plenary

John Lohmeyer noted that the following recommendations were made during this meeting:

- that 02-318r1 be recommended for inclusion in SAS.
- that 02-202r4 (r3 as revised) be recommended for inclusion in SAS.
- that 02-276r3 (r2 as revised) be recommended for inclusion in SAS.
- that we recommend to T10 that the SSP Task IU be changed to 28 bytes to match the command IU by removing the last 4 reserved bytes.

The following recommendation was made on the September 17th conference call:

- that a statement saying STP initiators shall not generate BIST frames be recommended for inclusion in SAS.

7. Meeting Schedule

SAS Protocol Working Group meetings are scheduled for:

Thursday-Friday, October 24-25, 2002 in Las Vegas in conjunction with the T13 meeting. Details to be posted to the T10 reflector.

Monday-Tuesday, November 4-5, 2002 commencing at 1:00 p.m. on Monday and ending at 5:00 p.m. on Tuesday in Huntington Beach, CA at the Hilton Waterfront Hotel (714-960-7873).

George Penokie agreed to host a SAS Protocol teleconference October 1st:

Tuesday October 1, 2002
11:00 am -- 2:00 pm EDT
10:00 am -- 1:00 pm CDT
9:00 am -- noon MDT
8:00 am -- 11:00 am PDT

USA Toll Free Number: 877-921-6914
Toll Number: +1-712-923-0332
Participant Passcode: 338024

WebEx Session: <http://seagate.webex.com/>
Meeting Name: SAS Protocol teleconference
Password: Carol20

An editing meeting is planned for October 3-4, 2002 in Houston, TX at HPQ. Rob Elliott will host this editing session.

8. Adjournment

The meeting was adjourned at 12: p.m. MDT on Tuesday, September 24, 2002.