

To: T10 Membership  
From: Alvin Cox  
Subject: Serial Attached SCSI PHY Study Group Conference call Monday, June 24 2:00 pm - 4:00 pm CDT

Meeting was called to order at 2:07 pm CDT, Monday, June 24

Attendees:

Richard McMillan	Adaptec, Inc.
Ken Paist	Agere Systems
John Loffink	Dell Computer Corp.
Barry Olawsky	HP
Clay Cranford	
Lou Fasano	IBM
Wes Ficken	IBM
Sam Ray	IBM
Andrew Cable	Intel Corp.
Mark Seidel	Intel Corp.
Russ Brown	Maxtor Corp.
Alvin Cox	Seagate
Mike Wamsley	Tyco Electronics

13 people present.

1. OOB levels  
Define maximum levels  
Evaluate minimum levels and window

Guarantee on for 240mV eye opening  
Guarantee off for 120mV P-P signal

Notes:  
Worst-case signals are trapezoidal.  
240 mV level is based on 2x ratio to minimum level.

Unanimous vote to accept the new definitions and that these values be submitted for recommended revision to the specification.

2. Review Table 19 input from Maxtor.

Excess differential input capacitance specification issue:  
Make reference to the time number instead of capacitance. Initial capacitance values were too low.  
Russ to update original note F and revise Table 18 to time values. Post new revision on T10 site.  
Other changes accepted. Time intervals to represent capacitance are listed below.

1.5 Gbps 150 ps max  
3.0 Gbps 100 ps max

3. Review OOB and speed negotiation section. **Carryover.**  
The latest update to the SAS OOB timing proposal, 02-198r3, has been posted to <http://www.t10.org/new.htm>.  
In addition to the timing changes, it changes D10.2 to ALIGN and ALIGN to ALIGN(1) in the speed negotiation sequence.

4. Al Kramer and Mike Jenkins to review table 18. Status? **Not reviewed yet. Carryover.**

5. Andrew Cable to submit comments for discussion on hot plug issues. Status?  
**Presentation to be posted on T10 that was presented during the call.**

6. Jenkins to develop test load model proposal: Enhancement to define a compliant interconnect by which transmitter compliance can be tested to assure receiver parameters. Status?  
**Discuss next call. Initial draft completed and to be posted on T10. It was too large for the reflector.**

7. Informative Annex **Carryover.**  
Draft of information in PHY specifications that are informative rather than specification.  
Additional informative topics concerning implementation/performance?

8. New Business  
**Loop lock time. (Brown) To be discussed on next call.**

Schedule:

Next conference call:

Start Date/Time: 07/08/02 MON 02:00 PM CDT  
End Date/Time: 07/08/02 MON 04:00 PM CDT

PARTICIPANT INFORMATION:

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All Participants should use the following information to reach the conference call:

PARTICIPANT CODE: 724085  
Toll Free Dial In Number: (888)422-7128

WebEx information:

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FIRST TIME USERS  
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For fully interactive meetings, including the ability to present your documents and applications, a one-time setup takes less than 10 minutes. Click this URL to set up now:

<https://seagate.webex.com/join/>

Then click New User.

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MEETING SUMMARY  
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Name: SAS PHY WG  
Date: 7/8/2002  
Time: 1:45PM, (GMT -05:00) Central Time, USA & Canada (DayLight Time)  
Meeting Number: 281652669  
Meeting Password: SASphy

T10 Face-to-face July

Monday-Tuesday, July 15-16, 2002 commencing at 1:00 p.m. on Monday and ending at 5:00 pm on Tuesday in Colorado Springs, CO at the Wyndham Colorado Springs Hotel (719-260-1800).

The meeting notice (with a link to make reservations on-line) is available at:  
<http://www.t10.org/ftp/t10/announce/ann-m050.pdf>

The meeting was adjourned at 4:52 pm CDT, Monday, June 24.