

To: T10 Membership  
From: Alvin Cox  
Subject: Minutes of SAS Physical teleconference - July 8, 2002

Meeting was called to order at 2:05 pm CDT, Monday, July 8, 2002

Attendees:

|                  |                     |
|------------------|---------------------|
| Richard McMillan | Adaptec, Inc.       |
| Ken Paist        | Agere Systems       |
| Barry Olawsky    | HP                  |
| Lou Fasano       | IBM                 |
| Farzad Ghobadian | Intel Corp.         |
| Mike Jenkins     | LSI Logic           |
| Russ Brown       | Maxtor Corp.        |
| Juzer Mogri      | NEC Electronics     |
| Alvin Cox        | Seagate             |
| Allen Kramer     | Seagate             |
| Joni Clark       | Seagate             |
| Mike Jenson      | ST Microelectronics |

12 people present.

Agenda:

1. Table 19 update (Brown)  
Excess differential input capacitance specification issue:  
Make reference to the time number instead of capacitance and update note f.  
1.5 Gbps 150 ps max  
3.0 Gbps 100 ps max  
  
02-210r2 was recommended to T10 for inclusion in SAS, 7 YES / 0 NO / 3 ABSTAIN
2. Test load (Jenkins)  
Review proposal T10 document 02-240r0  
  
Significant discussion on this item. Mike Jenkins will update the drawing to specify 1.5 and 3.0 GHz and scale the numbers accordingly. Decided to use the same equation and thus the same test vehicle as XAUI. Mentioned that the sample in the figure was worse than 4dB. It is not certain whether the values match the near end and far end values specified in the existing SAS tables. Mike to update so that the topic can be reviewed during the T10 meeting next week. Since Mike will not be present, a teleconference has been scheduled for this topic on 7/22 (see below).
- 3a. OOB speed negotiation  
Review proposal T10 document 02-198r4  
  
See item 3b. Additional review during face-to-face.
- 3b. Loop Lock time (Brown)

New item. Need information posted.

Information was posted to the reflector and discussed during the call. Determined to be part of the OOB speed negotiation topic. IC suppliers concerned about lock time allowances during speed negotiation. FCAL allows approximately 500us and would be beneficial for design latitude in SAS, especially since speed negotiation is not often performed. Recommended that the protocol group consider the FCAL timing for the RCD interval.

4. Jitter tolerance compliance points table review (Jenkins/Kramer)  
Status of review.

Jenkins and Kramer to review and Kramer will present during face-to-face.

5. Common Mode Shift Oxide Stress (Cable)  
Review proposal T10 document 02-247r0

Not covered. Review during face-to-face.

6. 3.3V LED driver characteristics

Not covered. Review during face-to-face.

07/22/02 TELECONFERENCE INFORMATION:

- \* Start Date/Time: 07/22/02 MON 02:00 PM CDT
- \* End Date/Time: 07/22/02 MON 04:00 PM CDT

PARTICIPANT INFORMATION:

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

- \* PARTICIPANT CODE: 734444
- \* Toll Free Dial In Number: (888)296-1938

Webex information:

Meeting Name: SAS PHY WG  
Scheduled Time: 7/22/2002 at 1:45PM (GMT -05:00) Central Time, USA & Canada (DayLight Time).

Meeting Number: 281652669

Any meeting attendee can use this number to join the meeting, at <https://seagate.webex.com/join/>

Password: SASphy

T10 Face-to-face July

See above for agenda items.

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 4:00 pm CDT, Monday, July 8, 2002