Minutes SAS PHY working group conference call June 2, 2004 T10/04-179r1~~0~~

Rev 1: corrected time of conference call.

Attendance:

Tim Symons (Adaptec)
Paul von Stamwitz (AMCC)
Haluk Aytac (AMCC)
Barry Olawsky (HP)
Rob Elliott (HP)
George Penokie (IBM)
Clay Cranford (IBM)
Andrew Cable (Intel)
Bob Sheffield (Intel)
John Lohmeyer (LSI Logic)
Mike Jenkins (LSI Logic)
Ashlie Fan (Madison Cable)
Russ Brown (Maxtor)
Jay Neer (Molex)
Bill Lye (PMC-Sierra)
Yuriy Greshishchev (PMC-Sierra)
Alvin Cox (Seagate)
John Calvin (Tektronix)
Bill Gintz (Zues)

19 people present.

Discussion:

1. Review proposal for OOB @ 1,5G only
http://www.t10.org/ftp/t10/document.04/04-128r1.pdf
Counter-proposal:
Document: T10/04-177r0
Item: SAS 1.1: 1.5 Gbit OOB requirements (04-177) [Penokie]
ftp://ftp.t10.org/t10/document.04/04-177r0.pdf

Discussed implications of mandatory 1.5Gbps OOB requirement and impact to future generation speeds. Looking at possible withdrawal of the 04-128 proposal in favor the 04-177 proposal. Key wording to look at is the “should” in reference to receiver supporting detection of OOB signal in the 04-177 proposal. Discussion to continue on next call. Link to revised 04-177 is provided below.

ftp://ftp.t10.org/t10/document.04/04-177r1.pdf

2. 4x internal electrical performance characteristics [Olawsky]
Barry Olawsky to post two background information documents plus proposal for cable performance specification. To be reviewed next meeting.

3. New items.
04-150 was discussed and will be reviewed again on the next call. The intent of this proposal is to make the external compliance interconnect more characteristic of the cable used in this application. It also removes the mathematical simulation option, requiring compliance testing be

done with a physical interconnect. When asked if more than just S21 should be specified, the answer was that it would be very complicated to cover the cases and that the physical compliance interconnect does introduce some of these other elements to provide a legitimate test. Mathematical simulation with just the S21 can be done in such a way to allow a “bad transceiver” to pass. Concerns were also voiced about signal levels required due to the amount of attenuation.

4. Teleconference schedule.

Next call:
Date: Thursday, June 17, 2004
Time: ~~3:00 pm~~10:00 am, Central Daylight Time (GMT -05:00, Chicago)
All Participants should use the following information to reach the conference call:
Toll Free Dial in Number: (866) 279-4742
International Access/Caller Paid Dial In Number: (309) 229-0118
PARTICIPANT CODE: 3243413

WEBEX information:

url: seagate.webex.com (no www)
Topic: SAS PHY working group
Date: Thursday, June 17, 2004
Time: 10:00 am, Central Daylight Time (GMT -05:00, Chicago)
Meeting number: 826154827
Meeting password: physical