Minutes SAS-1.1 PHY WG teleconference February 24, 2005 T10/05-087r0

Attendance:

Mr. Tim Symons	Adaptec
Mr. Henry Wong	Agilent
Mr. Paul von Stamwitz	AMCC
Mr. Jim Lott	Dallas Semiconductor
Mr. Kevin Marks	Dell
Mr. Barry Olawsky	HP
Mr. George Penokie	IBM
Mr. Bill Bissonette	Intel Corporation
Mr. Galen Fromm	Molex
Mr. Bill Lye	PMC-Sierra
Mr. Alvin Cox	Seagate Technology
Mr. Allen Kramer	Seagate Technology
Mr. Bill Gintz	Sues
Mr. Kalev Sepp	Tektronix
Mr. Dan Gorenc	Tyco
Mr. Don Schulte	Vitesse

16 People Present

Agenda:

1) 05-019r1 SAS 1.1 OOB For SAS/SATA Support [Bissonette]
http://www.t10.org/ftp/t10/document.05/05-019r1.pdf
White paper posted.
http://www.t10.org/ftp/t10/document.05/05-077r1.pdf

Bill Bissonette to work with SATA-I/O group. 05-077r1 has been posted on the SATA-I/O PHY reflector.

2) T10/05-083r0 SAS-1.1 PHY transmitter and receiver electrical table updates [Cox]
http://www.t10.org/ftp/t10/document.05/05-083r0.pdf

Alvin posted on 2/24. The following items arbe addressed in this proposal. Includes text stating that system signal path implementations are to be no worse than the TCTF. This has been an implied spec, but not stated in the text. Addresses the use of words: "Maximum near-end crosstalk" in tables 33 and 35 by moving the requirement to general electrical requirements table 31, renaming the parameter, and updating the definition. OOB idle time noise also move to table 31.

3) T10/05-079r1 SAS-1.1 Minimum XR/IR Receiver Signal Level for 3Gb SATA Mode [Olawsky]
http://www.t10.org/ftp/t10/document.05/05-079r1.pdf

SATA eye opening requirements in transmit table concerns are being addressed by this proposal. Barry Olawsky is working on 3Gbps SATA simulation numbers. Barry expects to have additional data for next week's call. He posted an update 2/24 that has very low 3Gbps numbers (125mV eye opening). Be sure to review prior to next week's call.

4) 05-062r0 SAS 1.1 Signal Performance Measurements Annex [Penokie]
http://www.t10.org/ftp/t10/document.05/05-062r1.pdf

Addressed several editors notes. George has sent a copy of today's version for Barry and Alvin to refine for review next week.
The following items were not discussed due to time limitations:

5) 05-084r0 SAS 1-1 Compact Connectors (Internal and External) [Neer]
http://www.t10.org/ftp/t10/document.05/05-084r0.pdf

Proposal posted 2/23/05.

6) Review draft proposal concerning transients during OOB [Cox]
http://www.t10.org/ftp/t10/document.05/05-069r0.pdf

Please review and send any comments to Alvin or the reflector.
No comments so far.

7) 05-059r0 05-023r0 SAS-1.1 Connector figures [Allan]
http://www.t10.org/ftp/t10/document.05/05-059r0.pdf

Dal Allan has posted 05-059r0 concerning the figure swap and figure names in 05-023r0. The figure swap was corrected in 05-023r1 to resolve the technical issue. The renaming issue suggests adding fixed and free designations to all referenced connectors, however the suggestion retains the plug and receptacle designations. To achieve the intended political correctness (the supposed explicit sexual references), any references using "plug" or "receptacle" also need to be removed from the connector descriptions. Fixed and free designations only reference physical aspects of the application of the connector (ideally, mounted in a fixed location or free to be mated in another location) rather than the connector type, thus being less descriptive of the physical aspects of the connector itself. Depending on the application, a receptacle or plug may be either fixed or free.

2/17/05:
Carryover. Send comments to reflector.
No comments so far.

8) 05-075r0 OOB Signal Transmitter Requirements [Wanamaker]
http://www.t10.org/ftp/t10/document.05/05-075r0.pdf

Proposal widens the window of the OOB signal burst and idle time for SAS devices.
Review next week and possibly change the tolerance of UIOOB if the timing interval should be wider. Drive, initiator, and expander suppliers should review product versus specification to determine if timing is too tight or if it is okay as is. Changing the tolerance of UIOOB is the preferred method rather than the table changes so that the document is consistent throughout.

9) SAS-1.1 rev 8 posted.
http://www.t10.org/ftp/t10/drafts/sas1/sas1r08.pdf

Review section 5.

Next call: March 3, 2005
Thursday, 10 am CST.
Same webex and call number for all calls:

Webex:
seagate.webex.com (no www)
Topic: SAS PHY WG

Date: Every week on Thursday
Time: 10:00 am, Central Standard Time (GMT -06:00, Chicago)
Meeting number: 825 549 498
Meeting password: section5

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