Minutes of SAS PHY Working Group conference call August 23, 2007

Attendance:

Mr. Charles Hill  Alta Engineering
Mr. Paul von Stamwitz  AMCC
Mr. Jaremy Flake  ATL Technology
Mr. Ramez Rizk  Emulex
Mr. Mike Fitzpatrick  Fujitsu
Mr. James Rockrohr  IBM Corp.
Mr. Harvey Newman  Infineon Technologies
Mr. Michael Jenkins  LSI Corp.
Mr. Gabriel Romero  LSI Corp.
Mr. Jacky Chow  Marvell Semiconductor, Inc.
Mr. Galen Fromm  Molex Inc.
Mr. Rick Hernandez  PMC-Sierra
Mr. Guillaume Fortin  PMC-Sierra
Mr. Yuming Tao  PMC-Sierra
Mr. Alvin Cox  Seagate Technology
Mr. Allen Kramer  Seagate Technology
Mr. Benoit Mercier  STMicroelectronics
Mr. Doug Loree  Toshiba
Mr. Scott Shuey  TycoElectronics
Mr. Mahbubul Bari  Vitesse Semiconductor
Mr. Larry McMillan  WDC
Mr. Ramya Dissanayake  WDC

22 in attendance

Agenda:

Review of action items from face-to-face

1. Updated 07-339 per meeting input [Cox]

   Table 63 should express S as the slope in dB/decade. The figure should also illustrate what S is. Alvin will check for the source figure to add the S definition and update the tables.
   Is the applied sinusoidal jitter correct?

2. Test illustrations/descriptions [Cox, Felton]
   Mickey to have an update 8/30.

3. Receiver test delivered signal [Newman, Hessen-Schmidt, Witt, Jenkins]
   This delivered signal to IR/CR should include the items needed for budget that are shown in 07-333r1. We discussed 07-333r1 and had questions regarding where some of the values came from. Incorporation of this proposal may not be necessary if the delivered signal definition is adequate to cover the budgeted items. It was also brought up that there is IP involved with this proposal and that the availability of it has not been completely worked out.

4. Cable specification update [Olawsky, Fromm, Jenkins]
   Galen to post the Molex mini SAS 10-meter cable assembly near-end isolation.
   http://www.t10.org/ftp/t10/document.07/07-376r0.s4p

5. Common mode voltage limit [Jenkins + anyone who can help]

7. Appendix material for JTF tuning [Cox]
   See posting by Chuck Hill. Please review for discussion.
   Should the material be posted as a proposal to add to the appendix?
   How does the 6G setting frequency affect testing at 1.5G and 3G that are also using the JTF methodology?

Chuck will forward the source document to Alvin for posting as a proposal. The formulas are given to change for data speeds other than 6Gbps. Values may need to be increased to cover the case of +/- 2400 ppm SSC. What is the impact of shifting away from f/1667 at 3G? This has been raised by about a factor of 3.

Next call:

August 30, 2007

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Webex information:
https://seagate.webex.com/seagate
Topic: SAS-2 PHY WG
Date: Thursday
Time: 10:00 am, Central Daylight Time (GMT -05:00, Chicago)
Meeting number: 826 515 680
Meeting password: 6gbpsSAS