Minutes of SAS PHY Working Group conference call December 13, 2007 T10/08-028r0

Attendance:

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|---|---|
| Mr. Jesse Jaramillo | Amphenol |
| Mr. Greg McSorley | Amphenol |
| Mr. Bob Marshall | FCI |
| Mr. Barry Olawsky | Hewlett Packard Co. |
| Mr. Rob Elliott | Hewlett Packard Co. |
| Mr. Harvey Newman | Infineon Technologies |
| Dr. Mark Seidel | Intel Corp. |
| Mr. Michael Jenkins | LSI Corp. |
| Mr. Gabriel Romero | LSI Corp. |
| Mr. Kevin Witt | Maxim Semiconductor |
| Mr. Mahbubul Bari | Maxim Semiconductor |
| Mr. Hock Seow | NEC Electronics America, Inc |
| Mr. Rick Hernandez | PMC-Sierra |
| Mr. Guillaume Fortin | PMC-Sierra |
| Mr. Yuming Tao | PMC-Sierra |
| Mr. Tim Symons | PMC-Sierra |
| Mr. Edward Chang | Samsung |
| Mr. Alvin Cox | Seagate Technology |
| Mr. Allen Kramer | Seagate Technology |
| Mr. Benoit Mercier | STMicroelectonics |
| Mr. Doug Loree | Toshiba |
| Mr. Michael Fogg | TycoElectronics |
| Mr. Larry McMillan | WDC |
| Mr. Ramya Dissanayake | WDC |

24 in attendance

1. Proposed Cable Tables for SAS2 6Gbs Phy [McSorley]
http://www.t10.org/ftp/t10/document.07/07-471r0.pdf

No updates discussed on this call. Greg has suggested a separate 6G specification with aspects similar to the 6G reference channel.

2. Description of SSC profile allowed discontinuities. [Hernandez, Fortin]
http://www.t10.org/ftp/t10/document.08/08-027r1.pdf

Does the JTF need to have a second transition density calibration point?
Basic concept: 80UI period using JTF filtering to have a jitter specification approach. Alvin asked if this method would help provide some limits on when SSC could be turned off when a common SSC clock structure is used. The concept seems reasonable. PMC is putting into a spec format rather than PowerPoint. It was suggested that PMC update and post the minor corrections and suggested values to the PowerPoint version and then make a separate proposal in the specification format. The updates to the PowerPoint are included in r1 (link provided above).

Alvin will update Gerry Houlder's proposal regarding clarifications with common SSC clock structures since the question has been asked multiple times over the last few months.

3. SAS-2 Interconnect Signal-to-Noise Ratio Study [Olawsky]
http://www.t10.org/ftp/t10/document.07/07-484r0.pdf

No updates discussed on this call. Barry is interacting with Witt and Bari on physical test specification.

4. SAS-2 Receiver Device Physical Testing [Witt, Bari]
http://www.t10.org/ftp/t10/document.07/07-486r1.pdf

No updates discussed on this call. See comment on the above item.

5. Refine/provide status on simulation technology. [Jenkins, Newman]

New StatEye version posted 12/10/07.
Random data results run very fast and could be considered as good if passing with margin.
8b10b takes longer and could be used if results don't show much margin with random since 8b10b increases margin.
Rob has posted HP simulation results with the new version of StatEye.
http://www.t10.org/ftp/t10/document.08/08-031r0.pdf
http://www.t10.org/ftp/t10/document.08/08-031r0.zip

6. SAS-2 6Gbps PHY specification [Cox]
http://www.t10.org/ftp/t10/document.07/07-339r7.pdf

Alvin to update 07-337 to include references to Figure 115 in Table 62 and check other cross references.

Conference call schedule:
December 20, 2007
January 3, 2008
January 10, 2008

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