

Attendance:

Mr. Paul von Stamwitz	AMCC
Mr. Jesse Jaramillo	Amphenol
Mr. Greg McSorley	Amphenol
Mr. Mickey Felton	EMC
Mr. Ramez Rizk	Emulex
Mr. Mike Fitzpatrick	Fujitsu
Mr. Barry Olawsky	Hewlett Packard Co.
Mr. Dan Colegrove	HGST
Ms. Carrie Cox	IBM Corp.
Mr. George O. Penokie	IBM Corp.
Mr. Harvey Newman	Infineon Technologies
Mr. Schelto van Doorn	Intel Corp.
Mr. Michael Jenkins	LSI Logic Corp.
Mr. Gabriel Romero	LSI Logic Corp.
Mr. Paul Wassenberg	Marvell Semiconductor, Inc.
Mr. John Sawdy	Merritec
Mr. Galen Fromm	Molex Inc.
Mr. Tim Symons	PMC-Sierra
Mr. Alvin Cox	Seagate Technology
Mr. Benoit Mercier	STMicroelectronics
Mr. Stephen Finch	STMicroelectronics
Mr. Adrian Robinson	Vitesse Semiconductor
Mr. Mahbubul Bari	Vitesse Semiconductor
Mr. Larry McMillan	WDC

24 in attendance

Agenda:

- 1.) 10/07-058r1 SAS-2 OOB and SSC [Finch]
<http://www.t10.org/ftp/t10/document.07/07-058r3.pdf>

A review of rev 2 resulted in a hopeful final change for rev 3. No additional reviews are planned on the conference calls. Rev 3 to include additional text as Rob supplied to Steve regarding interoperability. Steve will update and post.

- 2.) New items.

10-meter cable specification update will come in the future.

Galen indicated that SCD21 may be something that should be added to this spec.

- SAS-2 Zero-Length Test Load Characterization [Olawsky]
<http://www.t10.org/ftp/t10/document.07/07-013r1.pdf>

Barry went through the new items added to the proposal. Alvin requested that information regarding the impact of the test load variations to the 3dB jitter measurement be included in an update.

- 3.) Continue discussion of PHY specification proposal.
<http://www.t10.org/ftp/t10/document.07/07-063r0.pdf>

Discussion items:

Actions from last call:

Kevin Witt will supply Alvin with updated illustrations of this pattern and 3dB emphasis.
Not supplied yet.

The reference common mode impedance in the receiver table should be 25 instead of 50. (Done, but no update to 063 has been posted yet.)

Alvin will post an update of 07-063 before the next call. ETA 2/20. Plan to include the transmitter spectral limits that Mike Jenkins had included in his proposal as a possible specification for imbalance and common mode amplitude.

Adrian Robinson has agreed to provide a draft for an informative physical receiver test using the characteristics of a 10-meter cable.

Has statistical spreadsheet and now reviewing prior to posting a proposal.

Mahbubul Bari has agreed to provide a draft for return loss measurement.

Return loss measurement methodology discussion [Bari]

<http://www.t10.org/ftp/t10/document.07/07-071r0.pdf>

Reviewed this proposal. General framework in initial post.

The D24.3 pattern is correct and should probably be the only one used in the return loss measurements to keep the test simple. Need to provide clarification that this pattern is a non-compliant stream without scrambling rather than a compliant pattern.

There needs to be a limit defined for the maximum amplitude applied into the transmitter.

Clarification needed on the transmitter and receiver connection related to the S-parameter measurements. Will also include the derivation information from the Jenkins proposal.

General:

Should a compliance channel be included for the transmitter specification or just a zero-length set of tests?

8.5 Gbps FCAL is incorporating concepts related to the PWBT reference receiver. Mike Jenkins plans to provide information at the March face-to-face meeting.

For the reference receiver, what does a "tap" mean with regards to performance? StatEye has certain assumptions regarding this. Harvey Newman will discuss with the StatEye originator and try to provide a separate proposal that describes the tap performance assumptions.

Briefly discussed the two camps regarding the return loss specification. SAS 6Gbps is not necessarily constrained by 1,5 Gbps and 3,0 Gbps specifications/implementations since return loss was not included in SAS 1.1.

Next teleconference 2/22, 2007

Weekly teleconferences scheduled for Thursdays at 10 am CST:

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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