

## 1. Opening Remarks

The meeting opened at 9:05 am with self introductions.

## 2. Attendance

Name	S	Organization
Mr. Paul von Stamwitz	P	AMCC
Mr. Gregory McSorley	P	Amphenol Interconnect
Mr. Kevin Marks	P	Dell, Inc.
Mr. Mickey Felton	A	EMC Corp.
Mr. Douglas Wagner	P	FCI
Mr. Geoffrey Hibbert	A	Finisar Corp.
Mr. Elwood Parsons	P	Foxconn Electronics
Mr. Mike Fitzpatrick	P	Fujitsu
Mr. Nathan Hastad	AV	General Dynamics
Mr. Rob Elliott	P	Hewlett Packard Co.
Mr. Barry Olawsky	A	Hewlett Packard Co.
Mr. Dan Colegrove	P	Hitachi Global Storage Tech.
Dr. Mark Seidel	P	Intel Corp.
Mr. Brian Day	A	LSI Corp.
Mr. Harvey Newman	A	LSI Corp.
Mr. George Penokie	A	LSI Corp.
Mr. Tom Palkert	V	Luxtera
Mr. Kevin Witt	V	Maxim Integrated Products
Mr. Greg Rice	V	Mindspeed Technologies
Mr. Jay Neer	P	Molex Inc.
Mr. Tim Symons	P	PMC-Sierra
Mr. Gourgen Oganessyan	V	Quellan
Dr. Edward Chang	A	Samsung
Mr. Alvin Cox	A	Seagate Technology
Mr. Martin Czekalski	V	Seagate Technology
Mr. Benoit Mercier	P	STMicroelectronics, Inc.
Mr. Doug Loree	V	Toshiba
Mr. Michael Fogg	P	TycoElectronics
Mr. Scott Shuey	A	TycoElectronics
Mr. Ramya Dissanayake	V	Western Digital
Mr. Mark Evans	P	Western Digital
Mr. Larry McMillan	V	Western Digital

32 People Present

Status Key: P - Principal  
 A - Alternate  
 AV - Advisory Member  
 E - Emeritus  
 L - Liaison  
 V - Visitor

## 3. Review of documents and proposals

#### 4. Letter ballot resolution

##### 4.1 Comments on SAS-2r14g PHY section

We started with a comment resolution regarding the SASWDP calibration pattern not properly referencing the random data pattern by using a 0 seed for the scrambler. This item will be corrected.

##### 4.2 SAS\_PHY: Comments on sas2r14g ([08-433r0](#)) [Gagnon]

Reviewed the proposal and accepted most identified items. Items not accepted were the request to change the rise time measurement pattern and 5.7.5.7.3 does still apply to TX compliance.

#### 5. SAS-2.1 topics

SAS 2.1 topics included active cables and a presentation regarding optical implementation of OOB. There are now several active cable proposals that have been posted or are being developed. Due to the tight schedule for SAS 2.1, Alvin has posted some uidelines for such proposals based on input from STA. Proposals need to be presented for discussion at the January F2F. A better understanding of applications is needed so that we as a group can make an informed recommendation to T10 as to what configuration will best suite the industry. See ([08-453](#))

##### 5.1 SAS-2 Mini SAS 8i connectors and cable assemblies ([07-449r0](#)) [Elliott]

Jay Neer presented some material regarding the x8 version that is a stacked split modular design of the existing miniSAS. See 08-455r0, Overview of SFF-8643, SFF-8644 Proposals for SAS 2.1 High Density Connectors.

##### 5.2 Proposal for SAS 2.1 Specification to Enable Support for Active Cables ([08-358r1](#)) [Oganessyan]

Minor editorial changes were suggested. This proposal needs to include the miniSAS connector version only.

##### 5.3 Validation of the Power Supply Volage Detection Logic Circuit Proposed in [08-358r1](#) ([08-359r0](#)) [Oganessyan]

Did not review at this time. This proposal has been previously discussed.

##### 5.4 SAS-2.1 / SPL Overview of an optical OOB method ([08-438r0](#)) [Day]

Discussed aspects of this proposal and where the changes to OOB signaling might occur. The perspective from the PHY WG provided additional input to that given by the protocol group on the previous day.

##### 5.5 TE proposal for new internal and external High Density Mini-SAS Connector System ([08-434](#)) [Shuey]

A brief overview of the connector system was provided. See the posting for details.

5.6 TE proposal for new Powered Mini SAS Connector ([08-435](#)) [Shuey]

A brief overview of the connector system was provided. See the posting for details.

5.7 Cmos Photonics based optical PMD for SAS 2.1 ([08-444](#))[Palkert]

Pages 8 - 11 have relevance to SAS 2.1.

6. New business

None.

7. Review of Recommendations

None.

8. Meeting Schedule

One teleconference is scheduled for December 11, 2008, 10:00 am CST. Additional calls can be arranged if needed.

Toll Free Dial in Number: (877)810-9442

International Access/Caller Paid Dial-In Number: (636)651-3190

PARTICIPANT CODE: 3243413

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

9. Adjournment

The meeting adjourned at 5:25 pm.