1. Opening Remarks
   The meeting opened at 9:02 am.

2. Approval of Agenda
   All automated new items were arranged in their respective positions in the previously posted agenda.

3. Attendance and Membership
   Attendees introduced themselves.

Mr. Ken Paist  Agere Systems
Mr. Paul von Stamwitz  AMCC
Mr. Mike Yeager  Dallas Semiconductor
Mr. Kevin Marks  Dell, Inc.
Mr. Mickey Felton  EMC Corp.
Mr. Ramez Rizk  Emulex
Mr. Douglas Wagner  FCI
Mr. David Freeman  Finisar
Mr. Geoffrey Hibbert  Finisar
Ms. Kiranmai Vedanabhatla  Finisar Corporation
Mr. Elwood Parsons  Foxconn Electronics
Mr. Mike Fitzpatrick  Fujitsu
Mr. Rob Elliott  Hewlett Packard Co.
Mr. Barry Olawsky  Hewlett Packard Co.
Mr. Dan Colegrove  Hitachi Global Storage Tech.
Mr. George O. Penokie  IBM Corp.
Mr. Harvey Newman  Infineon Technologies
Mrs. Vicky Duerk  Intel
Mr. Martin Massucci  Intel
Dr. Mark Seidel  Intel Corp.
Mr. Pak Seto  Intel Corp.
Mr. Joel Silverman  Kawasaki Microelectronics Am
Mr. Dennis Moore  KnowledgeTek, Inc.
Mr. Graeme Weston-Lewis  LSI Logic
Mr. Praveen Viraraghavan  LSI Logic Corp
Mr. Brian Day  LSI Logic Corp.
Mr. Michael Jenkins  LSI Logic Corp.
Mr. Paul Wassenberg  Marvell Semiconductor, Inc.
Mr. Edward Cady  Meritec
Mr. Greg Rice  Mindspeed Technologies
Mr. Galen Fromm  Molex Inc.
Mr. Hock Seow  NEC Electronics America, Inc
Mr. Michael Hopgood  Nvidia Corp.
Mr. Rick Hernandez  PMC-Sierra
Mr. Alvin Cox  Seagate Technology
Mr. Stephen Finch  STMICROELECTRONICS, INC.
Mr. Doug Loree  Toshiba
Ms. Ashlie Fan  TycoElectronics
Mr. Dan Gorenc  TycoElectronics
Mr. Kevin Witt  Vitesse Semiconductor
Mr. Larry McMillan  Western Digital
Mr. Jeff Williams  Xiotech Corp.

42 People Present
4. Review of documents and proposals

4.1 SAS-2 COMWAKE detection requirements (06-464r0) [Cox]
Approved 19/0/1

4.2 SAS-2 OOB transmission requirements (06-463r2) [Cox]
Recommended as edited 17/0/3
(06-463r3 has been posted.) http://www.t10.org/ftp/t10/document.06/06-463r3.pdf

4.3 10 Meter Cable Specification Issues (06-499r0) [Olawsky]
http://www.t10.org/ftp/t10/document.06/06-499r0.pdf

Some concerns:
Maximum insertion loss – TCTF mask is not a good approach.
Maximum intra-pair skew – Is this required and can it be met?
Should a channel specification be used?
Proposal to be posted. This is an initial look with more details to come later.

4.4 EMI Considerations for SAS-2 (06-483r0) [Marks, Jones, and Hailey]
Outlines considerations for development of the 6G electrical specification. This is not an
exhaustive list, but rather a primer of considerations as the phy electrical specification is
developed.

4.5 Proposal for 6G SAS TX Specification via Reference Receiver (06-491r0) [Jenkins]
Should TX de-emphasis be specified and if so, how?
Indicated that the receiver equalization may have better compensation than de-emphasis. Neither
analysis using de-emphasis or no de-emphasis included crosstalk.

4.6 SAS-2 Electrical Specification Proposal (06-496r0) [Witt]
May want to define the zero length test load as having some amount of loss.
Transmitter device return loss in proposal is very close to what is currently in FCAL. Check the
FCAL version.
Does the channel need to provide 10e-15 BER with the reference transmitter and receiver? STA
indicated 10e-12 BER as the need and 10e-15 BER as desired. This number was associated with
the simulation values of the reference channel. Needs additional discussion.
Jitter: May need to change to a second order roll-off instead of the “effects of a single pole high-
pass frequency-weighting function that progressively attenuates jitter at 20 dB/decade below a
frequency of ((bit rate) / 1 667)” to minimize the effects of SSC.
Should we add a short reach mode? Use SATA numbers?
This proposal is a starting place for specification development.

4.7 SAS-2 Modifications to the SAS Speed Negotiation (06-324r8) [Finch, Wassal]
Continued to review and update this proposal. The number of changes did not allow it to be voted
on for recommendation to the plenary. Additional editing is scheduled for Thursday afternoon with
a review session to follow on future conference calls.

5. New Business

None.
6. Review of Recommendations

6.1 SAS-2 COMWAKE detection requirements ([06-464r0] [Cox])
Recommended 19/0/1

6.2 SAS-2 OOB transmission requirements ([06-463r2] [Cox])
Recommended as edited 17/0/3

7. Meeting Schedule

Weekly teleconferences scheduled for Thursdays at 10 am CST:

PARTICIPANT INFORMATION:

Toll Free Dial in Number: (866) 279-4742
International Access/Caller Paid Dial In Number: (309) 229-0118

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: 6gbsSAS

No call on 11/23 or 12/28.

8. Adjournment

The meeting adjourned at 5:23 pm.