

Sony Corporation

Date: January 20, 1987

To: Bill Burr, Chair X3T9.2
Location: National Bureau of StandardsFrom: Lawrence J. Lamers
Location: Sony Corporation of America
Phone: (408) 280-0111

Subject: Optical Ad-Hoc Minutes - 01/19/87 to 01/20/87 - Colorado Springs

An Optical Ad-Hoc meeting was convened to resume work on SCSI-2 for optical devices. The meeting was organized by Paul Boulay of IMSI/OSI and John Hoy of Optotech. We are indebted to them for providing the excellent facilities. The following people attended:

Meeting Attendees

Name	Status	Organization
Mr. Larry Stoner	O	Cipher/Optimen
Ms. Donna Pope	S	Cipher/Optimen
Mr. Duncan McDonald	P	Distributed Logic Corp.
Mr. Bo Larsson	S	Fujitsu America, Inc.
Mr. Rick Kato	S	Hewlett Packard Co.
Mr. Louis G. Edwards	A	IMSI-OSI
Mr. Paul Boulay	O	IMSI-OSI
Mr. Skip Jones	A	Maxtor Corp.
Mr. Daniel E. Moczarny	A	Mitsubishi Electronics Amer
Mr. John Lohmeyer	P	NCR Corp.
Mr. Harry Mason	O	NCR Corp.
Mr. Jack Brown	S	NCR Corp.
Mr. John Hoy	P	Optotech, Inc.
Mr. Jim Harper	A	Optotech, Inc.
Mr. Sergio Fonesca	P	Sony Corp. of America
Mr. Lawrence J. Lamers	A	Sony Corp. of America
Mr. Ken Post	P	Western Digital

Status Key: P - Principal A - Alternate O - Observer
S - Special Interest Group (Optical)

Paul Boulay's letter of 12/30/86 formed the basis of an agenda.

1) MEDIA SCAN command (SEARCH FOR EMPTY BLOCKS)

Reference 86-99 & 86-122. Paul Boulay had modified document 86-99 to incorporate comments made by Bob Snively. After discussion of the relative merits of these proposals the recommendation is to adopt document 86-99 as modified by the ad-hoc group.

2) Optical Device Type Codes

There was discussion on how best to proceed with the overall task of developing an SCSI-2 document for optical devices. The recommendation is to use Section 15 of the 10-31-87 SCSI-2 document as a baseline recognizing that there are a number of issues and concerns in dealing with the future multi-media optical devices and the current products. John Hoy has agreed to be the section editor, with Paul Boulay acting as technical assistant.

3) Asynchronous Event Notification

Asynchronous event notification was discussed briefly in relation to the working group activity in Irvine. Further issues with this topic will be deferred to the general working group.

4) Vendor Unique Operation Codes

Which operation codes should remain vendor unique and which should be reclaimed for use in SCSI-2 was discussed. At this time the recommendation is to return codes 19h, 0Ch, 2Ch, 2Dh to vendor unique status.

5) READ DEFECT DATA command

John Hoy accepted an action item to study the Direct Access implementation of this command for use in optical devices. The command would be optional for optical devices.

6) ERASE command

Larry Stoner of Optimen accepted an action item to prepare a draft of a ten-byte ERASE command with a destroy bit. An erase bit will be added to the ten-byte WRITE command with an implementors note on the implied state of the erase bit in the six-byte WRITE command.

7) JIS proposal

Dan Moczarny presented a one page summary of commands that the Japanese committee is working on for optical. More detailed information is to be available for the Florida meeting. Larry Lamers accepted an action item to inquire of Sony-Tokyo on the matter.

8) Block Descriptor Page

Larry Lamers accepted an action item to draft the Block Descriptor Page proposal. The ad-hoc group recommends that if only one block descriptor is

used that it be located in the MODE SELECT/MODE SENSE data header. If more than one block descriptor is needed the block descriptor page is used. If a target receives a MODE SELECT parameter list with both the block descriptor in the header and the block descriptor page the block descriptor in the header will be ignored.

9) Disconnect/Reconnect Page

Louis G. Edwards accepted an action item to draft a proposal on burst size parameters. The discussion centered around the customer's desire to deal with parameters that are meaningful to the data transfer. The proposal will include a minimum burst size as well as guidelines on resolving conflicting requirements with the time based parameters.

10) RELOCATE BLOCK Command

OSI and Optotech have accepted an action item to provide a RELOCATE BLOCK command proposal. The command is intended to deal with defective sectors as well as provide update capability. A ten-byte and twelve-byte version of the command will be developed.

11) Retrieve prior updated sectors

Skip Jones accepted an action item to draft a proposal on retrieving updated sectors.

12) Disk Changer Commands (jukebox)

This item was deferred because Michael Rudy of Filenet is handling this section.

13) READ LONG / WRITE LONG command

Section 8.2.14 needs a note added for ECC to be allowed to be sent as zeros. The WRITE LONG command has some concerns regarding integrity of archived data.

14) Additional Sense Codes

Ken Post has accepted an action item to collect and coordinate Additional Sense Codes for optical devices. All interested parties are requested to send their data to Ken (714) 474-2033 ext 7301.

15) Error logging

Deferred to general working group. No separate optical issues were identified.

16) READ ID / WRITE ID command

Sergio Fonseca has accepted an action item to re-submit his May 1986 proposal for consideration at the next optical ad-hoc meeting.

cc: Attendees

Ad-hoc Optical Working Group

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