To:

Membership of X3T9.2

From:

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Date:

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Subject: SCSI-3 Primary Commands -- Working Document Outline

This document is the outline for the contents of the SCSI-3 Primary Commands (SPC) document. The purpose of this outline is verification that all the sections that X3T9.2 members expect to see in the SPC are slated for inclusion. If something is omitted from this outline that you expected to see in the SPC, please inform me.

The outline started life as the table of contents for Chapter 8 of the SCSI-2 document. The only information present in Chapter 8 that is not listed in this outline is the "SCSI addresses" section (8.1.1). Based on all the discussions thusfar, the definition of a SCSI address belongs in the SCSI-3 Architecture Model.

As described in document 92-006R1, the MOVE MEDIUM and READ ELEMENT STATUS commands have been moved from Chapter 17 to the SPC outline. A device model section also has been added for attached medium changers.

As of this writing, I do not have copies of many of the documents that affect the SPC. So, I have guessed about how the documents that I do not have will affect the SPC. My guesses are listed below.

I have guessed at the effects of documents 90-048R7 and 90-183R0 on the copy function codes in the SPC. The results of my guessing are expressed in the titles for sections 2.3.3 thru 2.3.6.

I have guessed that the Power Condition Mode Page (91-014R6) belongs in the SPC. I have added section 3.3.4 to describe that new mode page. I have guessed that the Data Compression Mode Page (90-119R3) does not belong in the SPC.

Changes that do not affect the section headers of the document also must be tracked. For my convenience, a separate memo serves that purpose. The separate memo has the subject "SCSI-3 Primary Commands -- Approved Additions List" and is document 92-226Rx.

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Lastly, I have a question regarding the ASC and ASCQ Assignments table. In the SCSI-2 document, this table appears in the "Sense key and sense code definitions" section (8.2.14.3). I have received a private communication indicating that the ASC and ASCQ Assignments table should NOT appear in the SPC. I would like a more formal confirmation of this decision.

I expect discussion of this outline to be on the agenda for the January, 1993 X3T9.2 Working Group meeting.

- 1 Model for all device types
 - 1.1 Removable Medium Device with an Attached Medium Changer
 - 1.2 Commands implemented by all SCSI devices
 - 1.2.1 Using the INQUIRY command
 - 1.2.2 Using the REQUEST SENSE command
 - 1.2.3 Using the SEND DIAGNOSTIC command
 - 1.2.4 Using the TEST UNIT READY command
- 2 Commands for all device types
 - 2.1 CHANGE DEFINITION command
 - 2.2 COMPARE command
 - 2.3 COPY command
 - 2.3.1 Errors detected by the managing SCSI device
 - 2.3.2 Errors detected by a target
 - 2.3.3 COPY function codes 00h, 01h, 05h, and 06h
 - 2.3.4 COPY function codes 02h and 07h
 - 2.3.5 COPY function codes 03h and 08h
 - 2.3.6 COPY function codes 04h and 09h
 - 2.3.7 Copies with unequal block lengths
 - 2.4 COPY AND VERIFY command
 - 2.5 INQUIRY command
 - 2.5.1 Standard INQUIRY data
 - 2.5.2 Vital product data
 - 2.6 LOG SELECT command
 - 2.7 LOG SENSE command

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- 2.8 MODE SELECT(6) command
- 2.9 MODE SELECT(10) command
- 2.10 MODE SENSE(6) command
 - 2.10.1 Current values
 - 2.10.2 Changeable values
 - 2.10.3 Default values
 - 2.10.4 Saved values
 - 2.10.5 Initial responses
- 2.11 MODE SENSE(10) command
- 2.12 MOVE MEDIUM command
- 2.13 READ ELEMENT STATUS command
 - 2.13.1 Element status data
 - 2.13.2 Element status page
 - 2.13.3 Medium transport element descriptor
 - 2.13.4 Storage element descriptor
 - 2.13.5 Import export element descriptor
 - 2.13.6 Data transfer element descriptor
- 2.14 READ BUFFER Command
 - 2.14.1 Combined header and data mode (000b)
 - 2.14.2 Vendor-specific mode (001b)
 - 2.14.3 Data mode (010b)
 - 2.14.4 Descriptor mode (011b)
- 2.15 RECEIVE DIAGNOSTIC RESULTS command
- 2.16 REQUEST SENSE Command
 - 2.16.1 Sense-key specific
 - 2.16.2 Deferred errors
 - 2.16.3 Sense key and sense code definitions
- 2.17 SEND DIAGNOSTIC Command
- 2.18 TEST UNIT READY Command
- 2.19 WRITE BUFFER command
 - 2.19.1 Combined header and data mode (000b)
 - 2.19.2 Vendor-specific mode (001b)
 - 2.19.3 Data mode (010b)
 - 2.19.4 Download microcode mode (100b)
 - 2.19.5 Download microcode and save mode (101b)

- 3 Parameters for all device types
 - 3.1 Diagnostic parameters
 - 3.1.1 Supported diagnostic pages
 - 3.2 Log parameters
 - 3.2.1 Buffer over-run/under-run page
 - 3.2.2 Error counter pages
 - 3.2.3 Last n error events page
 - 3.2.4 Non-medium error page
 - 3.2.5 Supported log pages
 - 3.3 Mode parameters
 - 3.3.1 Control mode page
 - 3.3.2 Disconnect-reconnect page
 - 3.3.3 Peripheral device page
 - 3.3.4 Power Condition page
 - 3.4 Vital product data parameters
 - 3.4.1 ASCII implemented operating definition page
 - 3.4.2 ASCII information page
 - 3.4.3 Implemented operating definition page
 - 3.4.4 Supported vital product data pages
 - 3.4.5 Unit serial number page