

T10/08-038r2 SMC-3 Use of LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED error code

To: T10 Technical Committee

From: Noud Snelder, BDT (noud.snelder@bdt.de)

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Subject: T10/08-038r2 SMC-3 Use of LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED error code

Revision History

Revision 0 (31 December 2007): initial revision

Revision 1 (27 April 2008): incorporated comments from Rod Wideman

Revision 2 (28 May 2008): incorporated comments from SMC-3 telephone conference

Related Documents

SMC3r01 - SCSI Media Changer Commands - 3 revision 9

Overview

The SMC3 WG sees the need describing the use of some existing error codes in the command standard to avoid misinterpretation. The error code LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED is one of these error codes. This document specifies its use within media changers.

Suggested Changes to SMC-3

Proposed new text is shown in blue. Proposed deletions are shown in ~~red-strikeout~~.

5.2.6 Element status maintenance requirements

When a media changer receives a valid READ ELEMENT STATUS command with ~~the~~ CURDATA bit set to zero, the media changer returns ~~information required by each page type element status data~~ (e.g., full, error) as command response data. The media changer may maintain ~~this information~~ ~~the element status data~~ at all times or it may regenerate it after receiving a valid READ ELEMENT STATUS command ~~with the CURDATA bit set to zero~~.

The optional INITIALIZE ELEMENT STATUS and INITIALIZE ELEMENT STATUS WITH RANGE commands may be used to force regeneration of ~~this information~~ ~~element status data~~.

If the device server is unable to process a command (e.g., a MOVE MEDIUM command) due to invalid element status data (e.g., element status has not yet been determined), then the device server may terminate the command with CHECK CONDITION status, with the sense key set to NOT READY, and the additional sense code set to LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED. The device server may continue to respond with this sense data until after successfully processing:

- a) a READ ELEMENT STATUS command with the CURDATA bit set to zero;
- b) an INITIALIZE ELEMENT STATUS command; or
- c) an INITIALIZE ELEMENT STATUS WITH RANGE command;

A device server that returns LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED additional sense code shall support the INITIALIZE ELEMENT STATUS command.

Changes to table 6 in chapter 6.1

Table 6 — Commands for media changers (part 1 of 2)

Command	Operation Code	Type	Reference
ACCESS CONTROL IN	86h	O	SPC-3

ACCESS CONTROL OUT	87h	O	SPC-3
CHANGE ALIASES	A4h/0Bh ^a	O	SPC-3
EXCHANGE MEDIUM	A6h	O	6.3
INITIALIZE ELEMENT STATUS	07h	EM	6.4

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Rest of table 6 remains unchanged