T10/08-320r0 SMC-3 Use of NOT READY error codes
To: T10 Technical Committee
From: Noud Snelder, BDT (noud.snelder@bdt.de)
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Subject: T10/08-320r0 SMC-3 Use of NOT READY error codes

Revision History
Revision 0 (30 July 2008): initial revision

Related Documents
SMC3r11 - SCSI Media Changer Commands - 3
08-272r1 – SMC-3 New additional sense codes tracking document

Overview
The SMC3 working group is attempting to define commonly used error codes in the standard to increase level of standardization. The document 08-272 list all new SMC-3 error codes. This document describes some of these new error codes.

Suggested Changes to SMC-3

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

[Add definition:]

3.1.x ready state: A state where a logical unit is able to process a medium-access command without returning CHECK CONDITION status with the sense key set to NOT READY.

3.1.y sequential mode: A mode of the logical unit in which medium-access commands are prohibited to enable specific media changer functionality that is beyond the scope of this specification.

[Add paragraphs:]

5.6 Error reporting

If the logical unit is configured in sequential mode (see 3.1.y), then the device server may terminate commands with CHECK CONDITION status with the sense key set to NOT READY and the additional sense code set to LOGICAL UNIT NOT READY, OPERATING IN SEQUENTIAL MODE.

If an access door of the logical unit is in a state that does not allow the device server to process medium-access commands successfully, 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, A DOOR IS OPEN.

If the device server is unable to process medium-access commands successfully due to a calibration problem, 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, CALIBRATION REQUIRED. The calibration problem may be recovered by:
　　　　a) Vendor specific command;
　　　　b) Power cycle; or
　　　　c) Service intervention.

If the device server is unable to process commands successfully due to missing configuration settings, 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, SYSTEM CONFIGURATION REQUIRED.

If the device server is unable to process commands successfully due to disabled robotics mechanism, 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, ROBOTICS DISABLED.