T10/06-397r0 SMC-3 Error codes overview

To: T10 Technical Committee

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

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Subject: T10/06-397r0 SMC-3 Error codes overview

Revision History

Revision 0 (31 August 2006): initial revision

Related Documents

SMC-3 r0 - SCSI Media Changer Commands - 3, revision 0

Overview

The SMC-3 WG requested a list of the Media Changer specific error codes as defined by SPC-4. The next table shows all Media Changer error codes as listed in SPC-4. The column 'Described in' shows the SCSI standard which specifies a description of the error code. When the column 'Described in' does not contain a reference it means that no SCSI standard was found that recorded a description of the error code.

Error Code	Described in	
NO ADDITIONAL SENSE INFORMATION	SPC-4	
I/O PROCESS TERMINATED		
OPERATION IN PROGRESS	MMC-5	
CLEANING REQUESTED		
NO SEEK COMPLETE		
LOGICAL UNIT NOT READY, CAUSE NOT REPORTABLE		
LOGICAL UNIT IS IN PROCESS OF BECOMING READY	SSC-3	
LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED	SBC-3	
LOGICAL UNIT NOT READY, MANUAL INTERVENTION REQUIRED		
LOGICAL UNIT NOT READY, REBUILD IN PROGRESS		
LOGICAL UNIT NOT READY, RECALCULATION IN PROGRESS		
LOGICAL UNIT NOT READY, OPERATION IN PROGRESS	SSC-3	
LOGICAL UNIT NOT READY, SELF-TEST IN PROGRESS	SPC-4	
LOGICAL UNIT NOT ACCESSIBLE, ASYMMETRIC ACCESS STATE TRANSITION	SPC-4	
LOGICAL UNIT NOT ACCESSIBLE, TARGET PORT IN STANDBY STATE	SPC-4	
LOGICAL UNIT NOT ACCESSIBLE, TARGET PORT IN UNAVAILABLE STATE	SPC-4	
LOGICAL UNIT NOT READY, AUXILIARY MEMORY NOT ACCESSIBLE	SSC-3	
LOGICAL UNIT NOT READY, NOTIFY (ENABLE SPINUP) REQUIRED		
LOGICAL UNIT NOT READY, OFFLINE	ADC-2	
LOGICAL UNIT DOES NOT RESPOND TO SELECTION		
NO REFERENCE POSITION FOUND	MMC-5	
MULTIPLE PERIPHERAL DEVICES SELECTED		
LOGICAL UNIT COMMUNICATION FAILURE	ADC-2	
LOGICAL UNIT COMMUNICATION TIME-OUT		
LOGICAL UNIT COMMUNICATION PARITY ERROR		
LOGICAL UNIT COMMUNICATION CRC ERROR (ULTRA-DMA/32)		
ERROR LOG OVERFLOW		
WARNING		
WARNING – SPECIFIED TEMPERATURE EXCEEDED		
WARNING - ENCLOSURE DEGRADED	SES-2	
WARNING - BACKGROUND SELF-TEST FAILED	SPC-4	
WARNING - BACKGROUND PRE-SCAN DETECTED MEDIUM ERROR	SBC-3	
WARNING - BACKGROUND MEDIUM SCAN DETECTED MEDIUM ERROR	SBC-3	
AUXILIARY MEMORY WRITE ERROR	SPC-4	
WRITE ERROR - UNEXPECTED UNSOLICITED DATA		
WRITE ERROR - NOT ENOUGH UNSOLICITED DATA		
INVALID INFORMATION UNIT		

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ENCLOSURE FAILURE SES-2			
ENCLOSURE SERVICES FAILURE SES-2			_
	ENCLOSURE SERVICES FAILURE	SES-2	

LINGUIDO DE ENOUGO DE EUNOTION	10500	
UNSUPPORTED ENCLOSURE FUNCTION	SES-2	
ENCLOSURE SERVICES UNAVAILABLE	SES-2	
ENCLOSURE SERVICES TRANSFER FAILURE	SES-2	
ENCLOSURE SERVICES TRANSFER REFUSED	SES-2	
ENCLOSURE SERVICES CHECKSUM ERROR	000.4	
ROUNDED PARAMETER	SPC-4	
SAVING PARAMETERS NOT SUPPORTED	SPC-4	
MEDIUM NOT PRESENT	SPC-4, SSC-3	
MEDIUM NOT PRESENT - TRAY CLOSED		
MEDIUM NOT PRESENT - TRAY OPEN		
MEDIUM NOT PRESENT – LOADABLE		
MEDIUM NOT PRESENT - MEDIUM AUXILIARY MEMORY ACCESSIBLE	0110.0	
MEDIUM DESTINATION ELEMENT FULL	SMC-3	
MEDIUM SOURCE ELEMENT EMPTY	SMC-3	
MEDIUM MAGAZINE NOT ACCESSIBLE		
MEDIUM MAGAZINE REMOVED		
MEDIUM MAGAZINE INSERTED		
MEDIUM MAGAZINE LOCKED		
MEDIUM MAGAZINE UNLOCKED		
INVALID BITS IN IDENTIFY MESSAGE		
LOGICAL UNIT HAS NOT SELF-CONFIGURED YET		
LOGICAL UNIT FAILURE		
TIMEOUT ON LOGICAL UNIT		
LOGICAL UNIT FAILED SELF-TEST	SPC-4	
LOGICAL UNIT UNABLE TO UPDATE SELF-TEST LOG	SPC-4	
TARGET OPERATING CONDITIONS HAVE CHANGED	SES-2	
MICROCODE HAS BEEN CHANGED	SPC-4	
CHANGED OPERATING DEFINITION		
INQUIRY DATA HAS CHANGED	SPC-4	
COMPONENT DEVICE ATTACHED		
DEVICE IDENTIFIER CHANGED	SPC-4	
REDUNDANCY GROUP CREATED OR MODIFIED		
REDUNDANCY GROUP DELETED		
SPARE CREATED OR MODIFIED		
SPARE DELETED		
OVERLAPPED COMMANDS ATTEMPTED	SAM-4	
MEDIA LOAD OR EJECT FAILED		
MEDIUM REMOVAL PREVENTED	SMC-3	
MEDIUM REMOVAL PREVENTED BY DATA TRANSFER ELEMENT	SMC-3	
INSUFFICIENT RESERVATION RESOURCES		
INSUFFICIENT RESOURCES	SPC-4	
INSUFFICIENT REGISTRATION RESOURCES	SPC-4	
INSUFFICIENT ACCESS CONTROL RESOURCES	SPC-4	
AUXILIARY MEMORY OUT OF SPACE	SPC-4	
OPERATOR REQUEST OR STATE CHANGE INPUT		
OPERATOR MEDIUM REMOVAL REQUEST		
LOG EXCEPTION		
THRESHOLD CONDITION MET	SPC-4	
LOG COUNTER AT MAXIMUM	SPC-4	
LOG LIST CODES EXHAUSTED		
FAILURE PREDICTION THRESHOLD EXCEEDED	SPC-4	
FAILURE PREDICTION THRESHOLD EXCEEDED (FALSE)	SPC-4	
VOLTAGE FAULT		
SET TARGET PORT GROUPS COMMAND FAILED	SPC-4	

The above table shows several error codes that are currently not described in any command spec. This proposal does not intend to describe these error codes. But some of these error codes are used specific

by media changer devices. And in order to standardize the use of these error codes it is encouraged that these error codes are described in the SMC-3 standard.

This proposal suggests adding a description for the following error codes into the SMC-3 standard.

MEDIUM MAGAZINE NOT ACCESSIBLE
MEDIUM MAGAZINE REMOVED
MEDIUM MAGAZINE INSERTED
MEDIUM MAGAZINE LOCKED
MEDIUM MAGAZINE UNLOCKED
LOGICAL UNIT NOT READY, OFFLINE

Suggested changes to SMC-3

Currently there is no definition of magazine, although the term is used 12 times in SMC3r02.

3.1.x Magazine: A magazine is used to combine a set of volumes within in the media changer. Some media changer devices allow a user to remove the magazine from the media changer.

Currently there is no definition of the term offline, although the term is used 6 times in SMC3r02

3.1.x Offline: A state of the media changer. When the media changer is offline is not able to process SCSI commands.