T10/08-047r3 SMC-3 New Tape Alert flags

To: T10 Technical Committee
From: Noud Snelder, BDT (noud.snelder@bdt.de)
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Subject: T10/08-047r3 SMC-3 New Tape Alert flags

Revision History
Revision 0 (04 January 2008): initial revision
Revision 1 (27 April 2008): incorporated comments from Rod Wideman
Revision 2 (16 July 2008): incorporated comments from July SMC-3 WG meeting
Revision 3 (20 August 2008): incorporated comments from SMC-3 telephone conference

Related Documents
SMC-3 r10 - SCSI Media Changer Commands – 3, revision 10

Overview
The media changer tape alert flags report about certain events/error conditions within the media changer. This proposal creates four new flags for specific error conditions that currently have no dedicated flag.
Removed Media Transport Element Full flag, because there is a proposal with a unique sense code for this event. Renamed Library Inventory Overloaded to Library Capacity Exceeded.

Changes to SMC3:

Add the following tape alert flags to table A.1:

Code	Flag	Type	Flag Type	Recommended application client message	Probable cause
21h	Library Capacity Exceeded	O	C	The total number of volumes exceeds the available number of storage elements. Remove a cartridge from the inventory to recover.	User filled all storage elements ~~Inserted full magazines~~ while there was a cartridge in the drive
22h	No Cleaning Cartridge	O	W	The library is managing cleaning of the tape drive(s), but there is no cleaning cartridge available in the inventory. Add a cleaning cartridge to the inventory to recover.	No cleaning cartridge available
23h	Expired Cleaning Cartridge	O	W	At least one of the cleaning cartridges has expired. Replace the expired cleaning cartridge with a new cleaning cartridge to recover.	Expired cleaning cartridge