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 DATE: April 25th, 2005
 SUBJECT: ADI ADC-2 Target Device Serial Number subpage (document T10/05-155r0)

Rev0 – Initial draft.

Introduction

This document proposes a change to existing table 33 and a new sub-clause 6.2.2.5 for ADC-2 that provides a means by which an automation device can modify the product serial number of the DT device (e.g., a tape drive).

Discussion

Some automation devices (e.g., a tape library) are modifying the serial number of data transfer device(s) to facilitate their replacement during service procedures. This practice allows the RMC device server within the DT device to maintain a uniform and consistent presentation to their application clients.

This proposal introduces a new ADC device server mode subpage that provides a method for changing the product serial number of the DT device. Proposed changes are in blue. Former references to SPC-2 are also updated to SPC-3 in anticipation of a general ADC-2 update.

Proposed Changes to ADC-2

Changes to 6.2.2.1:

Table 33 is modified as follows.

Table 33 — Mode subpage codes

Subpage Code	Description	Reference
01h	Target Device subpage	6.2.2.2
02h	DT Device Primary Port subpage	6.2.2.3
03h	Logical Unit subpage	6.2.2.4
04h	Target Device Serial Number subpage	6.2.2.5

New sub-clause 6.2.2.5:

6.2.2.5 Target Device Serial Number subpage

The Target Device Serial Number subpage is variable length and contains the SCSI target device product serial number (see SPC-3) of the DT device. The subpage is defined in table X.

Table X — Target Device Serial Number subpage

Bit Byte	7	6	5	4	3	2	1	0
0	PS	SPF (1b)	PAGE CODE (0Eh)					
1	SUBPAGE CODE (04h)							
2	Reserved							
3	PAGE LENGTH (n-3)							
4	Reserved						MTDSN	
5	Reserved							
6	Reserved							
7	Reserved							
8	(MSB)							
n	PRODUCT SERIAL NUMBER						(LSB)	

See SPC-3 for a description of the PS bit, SPF bit, PAGE CODE field, SUBPAGE CODE field, and PAGE LENGTH field. These bits and fields shall be set to the values shown table X.

The modify target device serial number (MTDSN) and PRODUCT SERIAL NUMBER fields are used to modify and report modifications to the DT device SCSI target device product serial number, as defined in table Y.

Table Y — MTDSN field

Value	MODE SENSE command ^a	MODE SELECT command ^a
00b	The MTDSN field shall be set to zero for a MODE SENSE command. The PRODUCT SERIAL NUMBER shall contain the currently assigned values.	Do not modify the DT device's SCSI target device product serial number. The PRODUCT SERIAL NUMBER shall be ignored.
01b	Invalid value for a MODE SENSE command.	Reserved
10b	Invalid value for a MODE SENSE command.	Set the DT device's SCSI target device product serial number to the manufacturer's default value. The PRODUCT SERIAL NUMBER shall be ignored.
11b	Invalid value for a MODE SENSE command.	Set the DT device's SCSI target device product serial number to the value in the PRODUCT SERIAL NUMBER field.

^a See SPC-3

See SPC-3 for a description of the PRODUCT SERIAL NUMBER field.