

TO: T10 Membership, SSC-3 Working Group
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 DATE: January 15, 2008
 SUBJECT: SSC-3 Automation Device Serial Number VPD page (document T10/08-022r1)

Rev0 – Initial draft.

Rev1 – Changes to decouple from ADC-3, per SSC-3 working group meeting January 15, 2008; add automation device serial number to Physical Device in model.

Related Documents

T10/05-351r2
 SSC-3r03e
 T10/08-021r0
 ADC-2r08

Introduction

This document proposes a change to address item 2.7 in [T10/05-351](#), which states:

2.7 Add a parameter to a stream device server that contains the serial number of the media changer containing the removable medium device, and add a method for an application client within the media changer to set this parameter (ADC-2, SSC-3; CA); << Priority A, Difficulty B >>

A corresponding proposal for ADC-3 (T10/08-021r0) will also be prepared to facilitate the capability described in this proposal.

Discussion

The approach taken is to provide a means by which the automation device can provide its serial number to the DT device (e.g., a tape drive), which then can be made available as a VPD page via the SSC device server. The serial number is defined to be the product serial number of an automation device's SMC logical unit that includes the DT device as part of its data transfer elements. The proposal is modeled after the Target Device Serial Number subpage used to configure the serial number of the DT device.

This proposal for SSC-3 defines a new device type specific VPD page (i.e., Automation device serial number VPD page). I decided to also make the page available for the ADC device server, so attempted to use the same VPD page code between ADC and SSC for convenience, although this necessitates skipping a value in ADC range since SSC consumed one that ADC has not.

Proposed Changes to SSC-3

Proposed new text is shown in [blue](#). Proposed deletions are shown in ~~red-strikeout~~.

Changes to 4.2.3

Add to the Physical Device in Figure 8 “[automation device serial number](#)”.

Add to Table 2

Automation device serial number	8.4.5
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Changes to 8.4.1

Modify Table 91 as follows (complete table not replicated here):

B3h	Automation device serial number VPD page	8.4.5	Optional
B34h – BFh	Reserved for this device type		

*New sub-clause 8.4.5***8.4.5 Automation device serial number VPD page**

Table Z defines the automation device serial number VPD page.

Table Z — Automation device serial number VPD page

Bit Byte	7	6	5	4	3	2	1	0
0	PERIPHERAL QUALIFIER			PERIPHERAL DEVICE TYPE				
1	PAGE CODE (B3h)							
2	Reserved							
3	PAGE LENGTH (n-3)							
4	(MSB)	AUTOMATION DEVICE SERIAL NUMBER						(LSB)
n								

See SPC-3 for a description of the PERIPHERAL QUALIFIER field, PERIPHERAL DEVICE TYPE field, and PAGE LENGTH field. The PAGE LENGTH field shall be set to the value shown in table Z.

The AUTOMATION DEVICE SERIAL NUMBER field contains the automation device serial number contained in the physical device. If configured (e.g., via the Automation Device Serial Number subpage, see ADC-3), then the automation device serial number shall be the product serial number (see SPC-4) of the media changer containing the physical device under control of the device server (see 4.2.3). If no automation device serial number has been configured, then the device server shall return ASCII spaces (20h) in this field.