To: INCITS T10 Committee

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Subject: SSC-3 add device type specific VPD page.

1 Revision History

Revision 0:
Posted to the T10 web site 28 May 2004.

2 General

A need has arisen to report device capabilities that are unique to SSC type devices. SCSI
provides a method to do this using INQUIRY VPD pages. This document proposes a VPD page
unique to SSC device types be added to SSC-3. It also proposes 1 bit field in this page to report
a capability to support Write Once Read Many mode of operation. Room has been left to add
more fields to report other capabilities.

This proposal also includes a new Tape Alert flag to indicate a WORM tape has been corrupted.

3 Proposal

3.1   Additions to clause 6 in SSC-3.

Add sub clause 6.4 as follows:

6.4 Vital product data (VPD) parameters

6.4.1 VPD parameters overview

This subclause defines the VPD pages used with SCSI Stream Command type devices. See
SPC-3 for VPD pages used with all device types. The VPD page codes specific to direct-access
devices are defined in table A.

VPD page code	VPD page name	Reference	Support requirements
B0h	SSC device capabilities VPD page	6.4.2	Optional
B1h – BFh	Reserved for this device type		

6.4.2 SSC device capabilities VPD page

Table X defines the SSC device capabilities VPD page. This page provides the application client
with the means to determine if the features defined by this page are supported by the device.

Table X – SSC device capabilities VPD page

Byte/Bit	7	6	5	4	3	2	1	0
0	PERIPHERIAL QUALIFIER			PERIPHERAL DEVICE TYPE				
1	PAGE CODE (B0h)							
2	Reserved							
3	PAGE LENGTH (10h)							
4	RESERVED							WORM
5 - 19	RESERVED							

The Write Once Read Many (WORM) bit indicates if the device server supports a write once capability. Write once capability is defined as a mode of operation where write operations are only allowed on blank tapes or at end of data. Further restrictions of this type of feature are beyond the scope of this standard. If the WORM bit is set to one, the device server supports this mode of operation. If the WORM bit is set to zero, the device server does not support this mode of operation.

3.2   Add a new Tape Alert flag

Add the following to Table A.1

3Bh	WORM Media Corrupted	O	C	The integrity of the WORM media has been compromised.	The media was corrupted by an external entity such as firmware that does not support WORM media.