

To: INCITS T10 Committee  
From: Paul Entzel, Quantum  
Date: 11 August 2004  
Document: T10/04-178r2  
Subject: SSC-3 add device type specific VPD page.

## 1 Revision History

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

Revision 1:

1. Remove the request for a new tape alert flag. This is covered by proposal 04-211r1.
2. Replace incomplete definition of write once capable mode with "Beyond the scope of this standard". Once a complete definition of WORM is added to SSC-3 (soon, I suspect), a reference should replace this statement.

Revision 2:

Changes agreed to by the SSC-3 WG at the July 2004 T10 meeting:

1. Expand Page Length field into 2 bytes using bytes 2 and 3.
2. Make the page variable length.
3. Add a definition for the PAGE LENGTH field borrowed from SPC-3.
4. Change the phrase "beyond the scope of this standard" to "TBD".

## 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.

## 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	PERIPHERAL QUALIFIER			PERIPHERAL DEVICE TYPE				
1	PAGE CODE (B0h)							
2 – 3	PAGE LENGTH (N-3)							LSB
4	RESERVED							WORM
5 - N	RESERVED							

The PERIPHERAL QUALIFIER field and the PERIPHERAL DEVICE TYPE field are as defined in SPC-3.

The PAGE LENGTH field specifies the length of the following VPD page data. If the allocation length of the CDB is too small to transfer all of the VPD page, the page length shall not be adjusted to reflect the truncation.

The Write Once Read Many (WORM) bit indicates if the device server supports a write once capability. The definition of write once capability is TBD. 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.