

To: T10 Technical Committee  
 From: Rob Elliott, HP (elliott@hp.com)  
 Date: 19 October 2002  
 Subject: 02-396r1 SAS Device Identification VPD page requirements

### **Revision History**

Revision 0 (1 October 2002) First revision

Revision 1 (19 October 2002) Incorporated comments from 15 October 2002 SAS protocol call.

### **Related Documents**

sas-r02 - Serial Attached SCSI revision 2

02-254r3 - WWNs for W-LUNs (George Penokie)

### **Overview**

SAS should be very specific in requirements for INQUIRY vital product data (VPD) to improve interoperability and ensure the Protocol Specific mode page and log page data can be interpreted correctly.

### **Suggested Changes**

#### **10 Application layer**

##### **10.1 SCSI application layer**

##### **10.1.3 SCSI commands**

##### **10.1.3.1 INQUIRY command**

Each logical unit in a SAS SSP target device shall include the identification descriptors listed in table 1 in the Device Identification vital product data (VPD) page (83h) returned by the INQUIRY command (see SPC-3).

**Table 1 — Device Identification VPD page required identification descriptors**

Field in identification descriptor	Identification descriptor			
	Logical unit name	Target port identifier	Relative target port identifier	Target device name
IDENTIFIER TYPE	NAA (3h)	NAA (3h)	Relative target port identifier (4h)	NAA (3h)
ASSOCIATION	Logical unit (0h)	Target port (1h)	Target port (1h)	Target device (2h)
CODE SET	Binary (1h)	Binary (1h)	Binary (1h)	Binary (1h)
IDENTIFIER LENGTH	8 or 16	8	4	8
PROTOCOL IDENTIFIER	N/A	N/A	N/A	SAS (6h)
IDENTIFIER	NAA IEEE Registered <sup>a</sup> or NAA IEEE Registered Extended <sup>b</sup> format	NAA IEEE Registered <sup>a</sup> format <sup>c</sup>	Target ports shall be numbered sequentially starting with 1h.	NAA IEEE Registered <sup>a</sup> format

<sup>a</sup> Contains NAA field set to IEEE Registered (5h); the IDENTIFIER LENGTH is set to 8

<sup>b</sup> Contains NAA field set to IEEE Registered Extended (6h); the IDENTIFIER LENGTH is set to 16

<sup>c</sup> This identifier contains the SAS address of the target port.

Logical units may include additional identification descriptors than those required by this standard.

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Editor's Note 1: 02-254 makes the ASSOCIATION field a 2-bit field to allow a target device to be identified with 2h and adds a PROTOCOL IDENTIFIER field to the identification descriptor for that association type.

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Editor's Note 2: Target device name is not being proposed here. If another proposal to add them is accepted, then the target device name column and protocol identifier row would be inserted in this table as shown.

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