To: T10 Technical Committee  
From: Rob Elliott, HP (elliott@hp.com)  
Date: 1 October 2002  
Subject: 02-396r0 SAS Device Identification VPD page requirements  

Revision History  
Revision 0 (1 October 2002) First revision  

Related Documents  
sas-r02 - Serial Attached SCSI revision 2  
02-254r2 - WWNs for W-LUNs  

Overview  
SAS should be very specific in requirements for INQUIRY vital product data 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 devices 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  

<table>
<thead>
<tr>
<th>Description</th>
<th>How many identification descriptors</th>
<th>Identifier type</th>
<th>Association</th>
<th>Identifier details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logical unit name</td>
<td>One</td>
<td>NAA (3h)</td>
<td>Logical unit (0h)</td>
<td>NAA = IEEE Registered (5h) or IEEE Registered Extended (6h)</td>
</tr>
<tr>
<td>Target port identifier</td>
<td>One per target port</td>
<td>NAA (3h)</td>
<td>Target port (1h)</td>
<td>NAA = IEEE Registered (5h) Contains the SAS address of the target port</td>
</tr>
<tr>
<td>Relative target port identifier</td>
<td>One per target port</td>
<td>Relative target port identifier (4h)</td>
<td>Target port (1h)</td>
<td>Ports are numbered 1h and higher</td>
</tr>
</tbody>
</table>

Logical units may include additional identification descriptors.  

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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.  

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Editor’s Note 2: Additional identifiers might be added to report port-phy relationships and provide details like attached SAS address.