

Date: September 15, 2007

To: T10 Committee

From Brad Besmer, LSI

Subject: SAS-2 Discover List Field Alignment

Overview

The SMP DISCOVER LIST Response field Last Phy Event Descriptor Index spans across a 32-bit DWORD boundary. Shift the 2 DESCRIPTOR INDEX values down by 1 byte.

SAS-2 Changes**10.4.3.15.3 DISCOVER LIST response**

Table 180 defines the response format.

Table 180 — DISCOVER LIST response (part 1 of 2)

Byte\Bit	7	6	5	4	3	2	1	0
0								SMP FRAME TYPE (41h)
1								FUNCTION (20h)
2								FUNCTION RESULT
3								RESPONSE LENGTH ((n - 7) / 4)
4	(MSB)							EXPANDER CHANGE COUNT
5								(LSB)
6								Reserved
7								
8								STARTING PHY IDENTIFIER
9								NUMBER OF DISCOVER LIST DESCRIPTORS
10								Reserved
11								PHY FILTER
12								Descriptor Type
13								Descriptor Length
15								Reserved
16	ZONING SUPPORTED	ZONING ENABLED						EXTERNALLY CONFIGURABLE ROUTE TABLE
17								Reserved
18	(MSB)							Last Self-Configuration Status Descriptor Index
19								(LSB)
20	(MSB)							Last Phy Event Information Descriptor Index
21								(LSB)
22								Reserved
31								

Table 180 — DISCOVER LIST response (part 2 of 2)

Byte\Bit	7	6	5	4	3	2	1	0
32								Vendor specific
47								
DISCOVER LIST descriptor list								
48								DISCOVER LIST descriptor (first)(see table 362 in 10.4.3.15.1, and table 338 in 10.4.3.9 or table 364 in 10.4.3.15.4)
								...
DISCOVER LIST descriptor (last)(see table 362 in 10.4.3.15.1, and table 338 in 10.4.3.9 or table 364 in 10.4.3.15.4)								
n - 4								
n - 3	(MSB)							
n					CRC			(LSB)