To: Members of INCITS T10

From: Erich Oetting

Date: July 13, 2004

Re: FCP-3 SPC-3 return check condition when FCP_DL too small

When an FCP data transfer is cut short due to incorrect setting of FCP_DL, the application client often is not informed of the error.

To solve this problem, I propose the following changes to FCP-3 and SPC-3.

Changes to FCP-3

In clause 9.3.2, replace the first paragraph, last sentence:

The command is completed normally except that data beyond the FCP_DL count shall not be transferred and that the appropriate overrun condition is presented (see 9.4.7).

With the following text:

The command ~~shall~~ should return Check Condition with a sense key of ILLEGAL REQUEST and an ASC/ASCQ of ~~DATA TRANFER PROHIBITED BY TRANSPORT LAYER~~INVALID FIELD IN INFORMATION UNIT. The Sense Key Specific value should contain the offset in the FCP_CMD_IU payload of the RDDATA, WRDATA, or FCP_DL fields. Data beyond the FCP_DL count shall not be transferred and the appropriate overrun condition shall be presented (see 9.4.7).

Changes to SPC-3

Add a new ASC/ASCQ for ~~DATA TRANFER PROHIBITED BY TRANSPORT LAYER~~INVAILID FIELD IN INFORMATION UNIT~~.~~

Replace the C/D bit in SPC-3 table 18 with a two bit CDIU field in byte 0, bits 5 and 6.

CDIU	Desription
00	Data
01	Information Unit
10	Command
11	Reserved