

Date: August 1, 2002

To: T10 Committee (SCSI)

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Subject: Inquiry Command Parameter Length Increase

1 Overview

As a result of SCSI device names, in some protocols, are larger than 255 bytes VPD page 83 is not able to return those values. The maximum SCSI name that can be used is 247 bytes. This occurs for the following reasons; the maximum allocation length for the INQUIRY command is 255 bytes, the VPD page length is limited to 255 bytes, and the identification descriptor is limited to 255 bytes.

2 SPC-3 Changes to INQUIRY command

The problem can be corrected by changing all those lengths from their current to one-byte size to a two-byte size. This can be done in the current command and VPD page with no effect to existing implementations because all the lengths have reserve fields proceeding them.

To implement this change the following changes need to be made:

The size of the ALLOCATION LENGTH field in the INQUIRY command table (Table 56 in SPC-3 rev 8) would change from being byte 4 to being bytes 3 and 4.

The size of the PAGE LENGTH field in the Device Identification VPD page table (Table 264 in SPC-3 rev 8) would change from being byte 3 to being bytes 2 and 3.

The size of the IDENTIFIER LENGTH field in the Identification descriptor table (Table 265 in SPC-3 rev 8) would change from being byte 3 to being bytes 2 and 3.