



To: INCITS Technical Committee T10
From: Fred Knight, Network Appliance
Email: knight@netapp.com
Date: September 19~~2~~, 2007
Subject: SPC-4 – TPGS model reference to Logical Unit Group Identifiers

1. Revision history

Revision 0 (12 September 2007) First revision

Revision 1 (19 September 2007) 2nd revision – adjust format of may/shall clauses

2. Related documents

spc4r11 – SCSI Primary Commands - 4

3. Overview

The INQUIRY command Device Identification VPD page designator type 6h is part of the Asymmetric Access model. The section describing this VPD page references the Target Port Group model section yet the model section contains no mention of this VPD page designator type.

This proposal adds a reference in the Target Port Group model section to associate the type 6 designator with TPGS enabled devices.

Proposal:

5.8.2.7 Implicit asymmetric logical units access management

SCSI target devices with implicit asymmetric logical units access management are capable using mechanisms other than the SET TARGET PORT GROUPS command to set the:

- a) Primary target port asymmetric access state of a primary target port group; or
- b) Secondary target port asymmetric access state of a target port that is a member of a primary target port group.

All logical units that report in the standard INQUIRY data (see 6.4.2) that they support asymmetric logical units access and support implicit asymmetric logical unit access (i.e., the TPGS field contains 01b or 11b) ~~shall:~~

- a) may implement the INQUIRY command Device Identification VPD page designator type 6h (see 7.6.3.9);
- ~~b) shall implement the INQUIRY command Device Identification VPD page designator types 4h (see 7.6.3.7) and 5h (see 7.6.3.8); and~~
- ~~c) shall support the REPORT TARGET PORT GROUPS command as described in 6.26.~~

~~and may:~~

~~e) Implement the INQUIRY command Device Identification VPD page designator type 6h (see 7.6.3.9).~~

Implicit logical unit access state changes between primary target port asymmetric access states (see 3.1.88) may be disabled with the IALUAE bit in the Control Extension mode page (see 7.4.7).

5.8.2.8 Explicit asymmetric logical units access management

All logical units that report in the standard INQUIRY data (see 6.4.2) that they support asymmetric logical units access and support explicit asymmetric logical unit access (i.e., the TPGS field contains 10b or 11b) ~~shall~~:

- a) ~~may implement the INQUIRY command Device Identification VPD page designator type 6h (see 7.6.3.9);~~
- ~~b) shall implement the INQUIRY command Device Identification VPD page (see 7.6.3) designator types 4h and 5h;~~
- ~~c) shall support the REPORT TARGET PORT GROUPS command as described in 6.26; and~~
- ~~d) shall support the SET TARGET PORT GROUPS command as described in 6.34.~~

~~and may:~~

~~d) Implement the INQUIRY command Device Identification VPD page designator type 6h (see 7.6.3.9).~~