ENDL
T E X A S

Date: 19 March 2008
To: T10 Technical Committee
From: Ralph O. Weber
Subject: SCSI device name cleanup in SPC-4

Introduction

SAM-4 no longer defines target device name or initiator device name. The preferred replacement is SCSI device name. This proposal modifies SPC-4 to keep pace with this modernization.

Revision History

r0   Initial revision

Unless otherwise indicated additions are shown in blue, deletions in red strikethrough, and comments in green.

Proposed Changes in SPC-4 r14

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3.1.60 initiator device name: A SCSI device name (see 3.1.122) of a SCSI initiator device or of a SCSI target/ initiator device when operating as a SCSI initiator device (see SAM-4).

…

3.1.159 target device name: A SCSI device name (see 3.1.122) of a SCSI target device or of a SCSI target/initiator device when operating as a SCSI target device (see SAM-4).

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6.2.2 Alias entry format

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The zero-padded (see 4.4.2) DESIGNATION field should designate a unique SCSI target device or target port using the following:

   a) A SCSI target device name or a target port name, and
   b) Optionally, one or more target port identifiers or SCSI transport protocol specific identifiers.

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7.5.4.1 Overview of TransportID identifiers

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The format of the SCSI transport protocol specific data depends on the value in the PROTOCOL IDENTIFIER field. The SCSI transport protocol specific data in a TransportID shall only include initiator port identifiers, initiator port names, or ~~initiator~~ SCSI device names (see SAM-4) that persist across hard resets and I_T nexus losses. TransportID formats specific to SCSI transport protocols are listed in table 366.

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7.5.4.6 TransportID for initiator ports using SCSI over iSCSI

An iSCSI TransportID specifies an iSCSI initiator port using one of the TransportID formats listed in table 371.

Table 371 — iSCSI TransportID formats

Format code	Description
00b	Initiator port is identified using the world wide unique ~~initiator~~ SCSI device name of the iSCSI initiator device containing the initiator port (see table 372).
01b	Initiator port is identified using the world wide unique initiator port identifier (see table 373).
10b - 11b	Reserved

iSCSI TransportIDs with a format code of 00b may be rejected. iSCSI TransportIDs with a format code of 01b should not be rejected.

A iSCSI TransportID with the format code set to 00b (see table 372) specifies an iSCSI initiator port based on the world wide unique ~~initiator~~ SCSI device name of the iSCSI initiator device containing the initiator port.

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7.7.3.1 Device Identification VPD page overview

The Device Identification VPD page (see table 421) provides the means to retrieve designation descriptors applying to the logical unit. Logical units may have more than one designation descriptor (e.g., if several types or associations of designator are supported). Designators consist of one or more of the following:

    a)   Logical unit names;
    b)   SCSI target port identifiers;
    c)   SCSI target port names;
    d)   SCSI ~~target~~ device names;
    e)   Relative target port identifiers;
    f)   Primary target port group number; or
    g)   Logical unit group number.

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7.7.3.2.4 Designation descriptors for SCSI target devices

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The Device Identification VPD page shall contain designation descriptors, if any, for all the SCSI ~~target~~ device names for all the SCSI transport protocols supported by the SCSI target device.

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8.1 Model for well known logical units

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The SCSI ~~target~~ device name of the well known logical unit may be determined by issuing an INQUIRY command (see 6.4) requesting the Device Identification VPD page (see 7.7.3).