

To: T10 Technical Committee
 From: Rob Elliott, Compaq Computer Corporation (Robert.Elliott@compaq.com)
 Date: 19 June 2001
 Subject: SPC-3 Extended Copy target descriptor for SRP

Revision History

Revision 0: 15 June 2001 - first revision (taken from 01-028r4 SRP InfiniBand annex)

Revision 1: 19 June 2001 - incorporated comments from June SRP WG - made target port identifier 16 bytes, fixed descriptor type code

Related Documents

T10/srp-r05 – SCSI over RDMA protocol revision 3 (by Ed Gardner)

T10/spc2r19 - SCSI Primary commands - 2 revision 19 (by Ralph Weber)

T10/01-028r5 - SRP InfiniBand annex (by Rob Elliott)

Overview

This proposes an extended copy target descriptor for SRP.

Suggested changes

7.2.5 Descriptor type codes [existing section in SPC-3]

Target descriptors and segment descriptors share a single set of code values that identify the type of descriptor (see table 16). Segment descriptors use codes in the range 00h to BFh. The definitions of codes between C0h and DFh are vendor specific. Target descriptors use codes in the range E0h to FFh.

Table 1 - EXTENDED COPY descriptor type codes (part 2 of 2)

Descriptor type code	Reference	Description	Shorthand
E0h	7.2.6.2	Fibre Channel World Wide Name target descriptor	
E1h	7.2.6.3	Fibre Channel N_Port target descriptor	
E2h	7.2.6.4	Fibre Channel N_Port with World Wide Name checking target descriptor	
E3h	7.2.6.5	Parallel Interface T_L target descriptor	
E4h	7.2.6.6	Identification descriptor target descriptor	
E5h	7.2.6.x	<i>SRP target descriptor [this line is new]</i>	
E6h - FFh		Reserved for target descriptors	

7.2.6.x SRP target descriptor format [new section for SPC-3]

The target descriptor format shown in Table 2 is used to identify a target using its SRP target port identifier (see SRP).

Table 2 - SRP target descriptor format

Byte Bit	7	6	5	4	3	2	2	0
0	DESCRIPTOR TYPE CODE (E5H)							
1	RESERVED		NUL	PERIPHERAL DEVICE TYPE				
2	RESERVED							
3	RESERVED							
4	LOGICAL UNIT NUMBER							
..								
11								
12	TARGET PORT IDENTIFIER							
..								
27								
28	DEVICE TYPE SPECIFIC PARAMETERS							
..								
31								

The DESCRIPTOR TYPE CODE, PERIPHERAL DEVICE TYPE and NUL fields and the device type specific parameters are described in 7.2.6.1.

The LOGICAL UNIT NUMBER field specifies the logical unit within the SCSI device identified by the data in the `TARGET PORT IDENTIFIER` field that shall be the source or destination for EXTENDED COPY operations.

The `TARGET PORT IDENTIFIER` field contains the SRP target port identifier (see SRP).