



Date: 9 September 2008
To: T10 Technical Committee
From: Kevin D. Butt
Subject: Restrict SPC-4 and SAM-5 codes to FC-SB-4 use

Introduction

FC-SB-4 is proposing to optimize its command delivery mechanism based on the capabilities established by FCP. In consideration for this, FC-SB-4 needs a small range of service action codes for use in variable length CDBs. Rather than assigning full device-type-based range, it is more efficient to take the needed small range out of the variable length CDB service actions currently assigned to SPC-4.

Revision History

- r0 Initial revision
- r1 Added changes designed to may FC-SB-4 LUNs unique

Differences between r0 and r1 are indicated by change bars.

Unless otherwise indicated additions are shown in [blue](#), deletions in ~~red-strikethrough~~, and comments in [green](#).

Proposed Changes in SAM-5 r00 (aka SAM-4 r14) SPC-4 r16

2.3 References under development

...

[T11/2122-D, Single-Byte Command Code Sets-4 Mapping Protocol \(FC-SB-4\)](#)

...

Proposed Changes in SAM-5 r00 (aka SAM-4 r14)

...

Table 27 — Logical unit extended addressing

EXTENDED ADDRESS METHOD Code(s)	LENGTH Code(s)	Description	Reference
0h	00b - 11b	Reserved	
1h	00b	Well known logical unit	4.6.11
1h	01b - 11b	Reserved	
2h	01b	Extended flat space addressing	4.6.12
2h	00b, 10b, 11b	Reserved	
3h - Eh	00b - 11b	Reserved	
3h - Dh	00b - 11b	Reserved	
Eh	00b - 10b	Reserved	
Eh	11b	FC-SB-4	4.6.x
Fh	00b - 10b	Reserved	
Fh	11b	Logical unit not specified	4.6.13

...

4.6.x FC-SB-4 addressing

The FC-SB-4 addressing (see table x1) is used as specified in FC-SB-4.

Table x1 — FC-SB-4 extended address format

Bit Byte	7	6	5	4	3	2	1	0
0	ADDRESS METHOD (11b)		LENGTH (11b)		EXTENDED ADDRESS METHOD (Eh)			
1								
2								
3								
4	Restricted (see FC-SB-4)							
5								
6								
7								

4.6.13 Logical unit not specified addressing

...

Proposed Changes in SPC-4 r16

D.3.5 Variable length CDB service action codes

...

Table D.8 — Variable Length CDB Service Action Codes Used by All Device Types

Service Action Code	Description
1800h	RECEIVE CREDENTIAL command
1801h to 1FBFh	Reserved
1FC0h to 1FFFh	Restricted (see FC-SB-4)
1801h to 1FFFh	Reserved