



Date: 10 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
- r2 Incorporated Sept 10 CAP working group comments

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	
<del>3h - Eh</del>	<del>00b - 11b</del>	<del>Reserved</del>	
3h - Dh	00b - 11b	Reserved	
Eh	00b - 10b	Reserved	
Eh	11b	Restricted for FC-SB-4	FC-SB-4
Fh	00b - 10b	Reserved	
Fh	11b	Logical unit not specified	4.6.13

...

**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 1FF7h	Reserved
1FF8h to 1FFFh	Restricted (see FC-SB-4)
<del>1801h to 1FFFh</del>	<del>Reserved</del>