



Date: 2 April 2000
To: T10 Technical Committee
From: Ralph O. Weber
Subject: Assignments for Variable Length CDB Service Action Codes

I have added the information shown below. The working group should review and advise on the choices I've made, including:

- a) Any command set defined only in SCSI-2 has been reserved for service action codes, and
- b) The processor command set has been reserved for service action codes.

The working group should consider whether other command sets should be reserved against variable length CDB usage (e.g., SES, RBC, and Bridging Expanders). Similarly, the working group should consider whether command sets developed outside T10 should be automatically allocated variable length CDB service action codes (e.g., Optical Card, and the ASC IT8 Graphic arts pre-press devices).

Once these issues have been agreed, the reserved code ranges will be grouped together at the end of the table.

To guide review of this information, italic comments have been added to the tables. The italic comments are not present in SPC-2.

C.9 Variable Length CDB Service Action Codes

Only one operation code is assigned to the variable length CDB (see 4.3). Therefore, the service action code is effectively the operation code for variable length CDB uses. To allow command set standards to assign uses of the variable length CDB without consulting SPC, ranges of service action codes are assigned to command sets as shown in table .

Table C.8 - Variable Length CDB Service Action Code Ranges

Service Action Code Range	Doc.	Description
0000h - 07FFh	SBC-2	Direct-access device (e.g., magnetic disk)
0800h - 0FFFh	SSC	Sequential-access device (e.g., magnetic tape)
1000h - 17FFh	SSC	Printer device
1800h - 1FFFh		Reserved (<i>Processor commands</i>)
2000h - 27FFh	SBC-2	Write-once device (e.g., some optical disks)
2800h - 2FFFh	MMC-2	CD-ROM device
3000h - 37FFh		Reserved (<i>Scanner commands</i>)
3800h - 3FFFh	SBC-2	Optical memory device (e.g., some optical disks)
4000h - 47FFh	SMC-2	Medium changer device (e.g., jukeboxes)
4800h - 4FFFh		Reserved (<i>Communications device commands</i>)
5000h - 5FFFh		Defined by ASC IT8 (Graphic arts pre-press devices)
6000h - 67FFh	SCC-2	Storage array controller device (e.g., RAID)
6800h - 6FFFh	SES	Enclosure services device
7000h - 77FFh	RBC	Simplified direct-access device (e.g., magnetic disk)
7800h - 7FFFh	OCRW	Optical card reader/writer device
8000h - 87FFh		Reserved (<i>Bridging Expanders</i>)
8800h - 8FFFh	OSD	Object-based Storage Device
9000h - F7FFh		Reserved
F800h - FFFFh	SPC-2	Commands for all device types (see table)

Table C.9 - Variable Length CDB Service Action Codes Used by All Device Types

Service Action Code	Description
F800h - FFFFh	Reserved