

Date: April 18, 2006

To: T10 Committee (SCSI)

From: George Penokie (IBM)

Subject: SES-2 Internal/External Vendor Specific connectors

1 Overview

Some internal SAS designs use non-standard connectors connect backplanes to planer cards (which contain the SAS initiator). The current connector type field contains a vendor specific range however the internal vs. external nature of the connector is not designated by that field. The internal vs. external connector information may be important information for the SAS initiator when a vendor specific connector is used. This proposal adds an internal vendor specific connector and an external vendor specific connector.

2 Changes to SES-2

The CONNECTOR TYPE field indicates the type of connector and is defined in table 1.

Table 1 — CONNECTOR TYPE field

Code	Description	Maximum number of physical links (informative)
00h	No information	unknown
01h	SAS 4x receptacle (see SAS-1.1 and SFF-8470)	4
02h	Mini SAS 4x receptacle (see SAS-1.1 and SFF-8088)	4
03h to 0Eh	Reserved for external connectors	
0Fh	Vendor specific external connector	
10h	SAS 4i plug (see SAS-1.1 and SFF-8484)	4
11h	Mini SAS 4i receptacle (see SAS-1.1 and SFF-8087)	4
12h to 1Fh	Reserved for internal wide connectors	
20h	SAS Drive receptacle (see SAS-1.1 and SFF-8482)	2
21h	SATA host plug (see SAS-1.1 and ATA/ATAPI-7 V3)	1
22h	SAS Drive plug (see SAS-1.1 and SFF-8482)	2
23h	SATA device plug (see SAS-1.1 and ATA/ATAPI-7 V3)	1
24h to 2Eh	Reserved for internal connectors to end devices	
2Fh	Vendor specific internal connector	
30h to 6Fh	Reserved	
70h to 7Fh	Vendor specific	