To: T10 Technical Committee

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Subject: T10/02-249r0 SES-2 Nonvolatile Cache Element cache size

# **Revision History**

Revision 0 (28 June 2002) first revision

# **Related Documents**

ses2r00 - SCSI Enclosure Services - 2 revision 00

# **Overview**

Currently there is no way to determine the size of the Nonvolatile Cache element. Users and management applications would be better informed and be able to better manage the various related components if the size of the cache element in the enclosure was available.

# **Suggested Changes**

This proposal provides for a mechanism to report the size of the NV cache available in the enclosure.

### 7.3.11 Nonvolatile Cache element

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The format of the STATUS INFORMATION field for a Nonvolatile Cache element is defined in table 50.

Table 50 — Nonvolatile Cache element for Enclosure Status diagnostic pages

	7	6	5	4	3	2	1	0	
0	COMMON STATUS								
1	Reserved							SIZE MULTIPLIER	
2	(MSB)	NONVOLATILE CACLE CIZE							
3			NONVOLATILE CACHE SIZE (LSB)						

The NONVOLATILE CACHE SIZE field and the SIZE MULTIPLIER indicate the approximate size of the nonvolatile cache. The SIZE MULTIPLIER field defines the units of the NONVOLATILE CACHE SIZE field.

Table x. SIZE MULTIPLIER field

SIZE MULTIPLIER value	Units of NONVOLATILE CACHE SIZE field
<u>00b</u>	<u>Bytes</u>
<u>01b</u>	Kilobytes (2^10 bytes)
<u>10b</u>	Megabytes (2^20 bytes)
11b	Gigabytes (2^30 bytes)

Failures of the Nnonvolatile Ccache may require immediate changes in the operating mode of elements in the enclosure. Information in the cache may be corrupted after such a failure.