To: T10 Technical Committee
From: Kevin Marks (Kevin_Marks@dell.com) Dell, Inc.
Date: May 4, 2004
Subject: SES-2 Array Device element Status and Control page Clarifications

Revision History

Revision 0 (4/24/04)
Revision 1 (5/04/04) – added Device Off bit

Related Documents

SCSI Enclosure Services – 2 (T10/1559-D - SES-2r7)

Overview

This proposal recommends allocating three reserved bit in the Array Device element for Enclosure Control Diagnostic page for a RQST FAULT bit, RQST INSERT bit, and DEVICE OFF bit as indirectly referenced in the Array Device element for Enclosure Status page text.

Suggested Changes:

Change Table 42 — Array Device element for Enclosure Control diagnostic page to add the RQST INSERT bit to byte-2 bit-3, RQST FAULT bit to byte-3, bit-5 and DEVICE OFF bit to byte-3, bit-4 as follows:

Table 42 – Array Device element for Enclosure Control Diagnostic page

Byte\Bit	7	6	5	4	3	2	1	0
0	COMMON CONTROL							
1	RQST OK	RQST RSVD DEVICE	RQST HOT SPARE	RQST CONS CHECK	RQST IN CRIT ARRAY	RQST IN FAILED ARRAY	RQST REBUILD/ REMAP	RQST R/R ABORT
2	ACTIVE	DO NOT REMOVE	Reserved		RQST INSERT	RQST REMOVE	RQST IDENT	Rsvd
3	Reserved		RQST FAULT	DEVICE OFF	ENABLE BYP A	ENABLE BYP B	Reserved	

Change the following text in section 7.3.3 PAGE 50-51 to include the RQST INSERT bit, RQST FAULT bit and DEVICE OFF bit:

The RQST R/R ABORT (request rebuild/remap aborted) bit is set to request that the rebuild/remap abort indicator be turned on. The RQST R/R ABORT bit is set to zero to request that the rebuild/remap abort indicator be turned off.

The ACTIVE (device activity indication) bit, DO NOT REMOVE bit, RQST INSERT (request insert) bit, RQST REMOVE (request removal) bit, RQST IDENT (request identify) bit, RQST FAULT (request fault) bit, DEVICE OFF bit , ENABLE BYP A (enable bypass A) bit, and ENABLE BYP B (enable bypass B) bit are defined in the Device element (see 7.3.2).

The format of the status field for an Array Device element in the Enclosure Status diagnostic page is defined in table 43.