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>
<thead>
<tr>
<th>Byte</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>RQST OK</td>
<td>RQST RSVD DEVICE</td>
<td>RQST HOT SPARE</td>
<td>RQST CONS CHECK</td>
<td>RQST IN CRIT ARRAY</td>
<td>RQST IN FAILED ARRAY</td>
<td>RQST REBUILD/REMAP</td>
<td>RQST R/R ABORT</td>
</tr>
<tr>
<td>2</td>
<td>ACTIVE</td>
<td>DO NOT REMOVE</td>
<td>Reserved</td>
<td>Reserved</td>
<td>RQST INSERT</td>
<td>RQST REMOVE</td>
<td>RQST IDENT</td>
<td>Rsvd</td>
</tr>
<tr>
<td>3</td>
<td>Reserved</td>
<td>RQST FAULT</td>
<td>DEVICE OFF</td>
<td>ENABLE BYP A</td>
<td>ENABLE BYP B</td>
<td>Reserved</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.