| To: | T10 Technical Committee | | | | | | |
|----------|--|--|--|--|--|--|--|
| From: | Bob Sheffield (Robert.L.Sheffield@Intel.com), Intel Corporation | | | | | | |
| Date: | March 4, 2003 | | | | | | |
| Subject: | T10/03-059r0, SES-2 Enclosure/Array Control Device Element for device activity | | | | | | |

Revision History

Revision 0 (March 4, 2003) first revision

Related Documents

SES2-r02 – SCSI Enclosure Services – 2 revision 2

<u>Overview</u>

This proposal recommends changes to the Enclosure Control and Array Control diagnostic page Device Element to provide for device identification signaled to a user via a flashing LED.

Suggested Changes

Change **Table 34** — **Device element for Enclosure Control diagnostic page** to add the ACTIVE bit to byte-2, bit-7 as follows:

| Bits Bytes | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | |
|---------------|----------------|------------------|---------------|---------------|-----------------|-----------------|---------------|------|--|
| 0 | COMMON CONTROL | | | | | | | | |
| 1 | Reserved | | | | | | | | |
| 2 | ACTIVE | DO NOT REMOVE | Rese | erved | RQST INSERT | RQST REMOVE | RQST IDENT | Rsvd | |
| 3 | Reserved | | RQST FAULT | DEVICE OFF | ENABLE BYP A | ENABLE BYP B | Reserved | | |

Add the following text to paragraph 7.3.2

7.3.2 Device element defined for Enclosure Control and Enclosure Status diagnostic pages The device activity indication bit (ACTIVE) may be set to one by the application client to cause a visual indication that the device is active. The enclosure services processor shall sustain active the device activity indication, if present, for 0,5 seconds. The enclosure services processor shall automatically deassert the ACTIVE bit to zero (and cease the visual activity indication) 0,5 seconds after receiving the last control diagnostic page with the ACTIVE bit set to one. If the activity indication is still in effect from a previous Enclosure Control diagnostic page with the ACTIVE bit set to one, the activity indication shall be sustained for 0,5 seconds from the last time the ACTIVE bit is set to one.

NOTE: to maintain the active indication asserted (if present), the application client must set the bit to one at least once every 0,5 seconds.

| Bits Bytes | 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 REMOVE | RQST IDENT | Rsvd | |
| 3 | Reserved | | | | ENABLE BYP A | ENABLE BYP B | Rese | erved | |

Change **Table 36** — **Device element for Array Control diagnostic page** to add the ACTIVE bit to byte-2, bit-7 as follows:

Add the following text to paragraph 7.3.3

7.3.3 Device element defined for Array Control and Array Status diagnostic pages

The device activity indication bit (ACTIVE) may be set to one by the application client to cause a visual indication that the device is active. When the ACTIVE bit is set to zero it has no effect. The array processor shall sustain active the device activity indication, if present, for 0,5 seconds. The array processor shall automatically deassert the ACTIVE bit to zero (and cease the visual activity indication) 0,5 seconds after receiving the last control diagnostic page with the ACTIVE bit set to one. If the activity indication is still in effect from a previous Enclosure Control diagnostic page with the ACTIVE bit set to one, the activity indication shall be sustained for 0,5 seconds from the last time the ACTIVE bit is set to one.

NOTE: to maintain the active indication asserted (if present), the application client must set the bit to one at least once every 0,5 seconds.