

To: T10 Technical Committee
 From: Thin Nguyen (thin_nguyen@hp.com) and Rob Elliott (elliott@hp.com), HP
 Date: 18 July 2002
 Subject: T10/02-250r1 SES-2 New Enclosure element

Revision History

Revision 0 (28 June 2002) first revision
 Revision 1 (18 July 2002) incorporated comments from July CAP WG – moved indication bits to byte 2 from byte 3.

Related Documents

ses2r00 - SCSI Enclosure Services - 2 revision 00
 02-192r0 SES-2 IDENT control for each element

Overview

The current proposal provides information about the various elements within the enclosure. It is important to provide the state of the enclosure itself as an individual entity.

Suggested Changes

7 Element definitions

7.1 Element definitions overview

...

Table 22 lists the elements and their ELEMENT TYPE codes. The table additionally indicates which elements accept the DISABLE bit (see 7.2.2) and which elements contain a value subject to comparison with a threshold.

Table 23 – Element type codes

Type code	Type of element	DISABLE bit reference	Threshold	Reference
...				
<u>0Eh</u>	<u>Enclosure</u>	<u>Not defined</u>	<u>None</u>	<u>7.3.nn</u>
...				

...

7.3 Field definitions for all element types

7.3.nn Enclosure element

The Enclosure element controls and reports information about the enclosure itself.

The format of the CONTROL INFORMATION field for an Enclosure element is defined in table xx.

Table xx. Enclosure element for Enclosure Control diagnostic page

	<u>7</u>	<u>6</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>0</u>
<u>0</u>	<u>COMMON STATUS</u>							
<u>1</u>	<u>REQUEST IDENT [02-192]</u>	<u>Reserved</u>						
<u>2</u>	<u>Reserved</u>							
<u>3</u>	<u>Reserved</u>				<u>Reserved</u>	<u>Reserved</u>	<u>REQUEST FAILURE</u>	<u>REQUEST WARNING</u>

If the REQUEST FAILURE bit is set to one, the enclosure shall enable a visual indication of enclosure failure (e.g., a failure LED). If the REQUEST FAILURE bit is set to zero, the enclosure may enable a visual indication of enclosure failure if the failure is self-detected.

If the REQUEST WARNING bit is set to one, the enclosure shall enable a visual indication of enclosure warning (e.g., a flashing LED or a second LED in addition to a failure LED). If the REQUEST WARNING bit is set to zero, the enclosure may enable a visual indication of enclosure warning if the warning is self-detected.

The format of the STATUS INFORMATION field for an Enclosure element is defined in table xx.

Table xx. Enclosure element for Enclosure Status diagnostic page

	<u>7</u>	<u>6</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>0</u>
<u>0</u>	<u>COMMON STATUS</u>							
<u>1</u>	<u>IDENT</u> <u>[02-192]</u>	<u>Reserved</u>						
<u>3</u>	<u>Reserved</u>					<u>FAILURE</u> <u>INDICATION</u>	<u>WARNING</u> <u>INDICATION</u>	
<u>3</u>	<u>Reserved</u>					<u>FAILURE</u> <u>REQUESTED</u>	<u>WARNING</u> <u>REQUESTED</u>	

The FAILURE INDICATION bit is set to one to indicate a failed condition was detected by the enclosure and that the visual indication of enclosure failure is enabled.

The WARNING INDICATION bit is set to one to indicate a warning condition was detected by the enclosure and that the visual indication of enclosure warning is enabled

The FAILURE REQUESTED bit is set to one to indicate that a failed condition has been requested by an application client with the Enclosure Control diagnostic page and that the visual indication of enclosure failure is enabled.

The WARNING REQUESTED bit is set to one to indicate that a warning condition has been requested by an application client with the Enclosure Control diagnostic page and that the the visual indication of enclosure warning is enabled.