

To: T10 Technical Committee
 From: Thin Nguyen (thin_nguyen@hp.com) and Rob Elliott (elliott@hp.com), HP
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 Subject: T10/02-248r0 SES-2 Cooling Element fan speed in RPM

Revision History

Revision 0 (28 June 2002) first revision

Related Documents

ses2r00 – SCSI Enclosure Services - 2 revision 00

Overview

The Cooling element (for Enclosure Status diagnostic pages) provides a three bit speed code field to indicate the speed of the fan in generic lowest - highest terms. Management applications and users need a way to convert that code into an actual fan speed with more resolution.

Suggested Changes

To provide a more accurate information, the proposal provides for modifying the status information to reflect the actual fan speed.

7.3.5 Cooling element

...
 The format of the STATUS INFORMATION field for a ~~cooling~~-Cooling element is defined in table 37.

Table 37 — Cooling element for Enclosure Status diagnostic pages

	7	6	5	4	3	2	1	0
0	COMMON STATUS							
1	Reserved						(MSB)	
2	ACTUAL FAN SPEED (LSB)							
3	Rsvd	FAIL	RQSTED ON	OFF	Rsvd	ACTUAL SPEED CODE		

...
~~The ACTUAL FAN SPEED field defines the actual fan speed in revolutions per minute (RPM) when multiplied by a factor of 10.~~

The REQUESTED SPEED CODE field is set to indicate the requested speed or rate of cooling of the fan or cooling device, as specified in table 36.

Table 36 — REQUESTED SPEED CODE values

Speed code	Description
000b	Reserved
001b	Fan at lowest speed
010b	Fan at second lowest speed
011b	Fan at speed-3 third lowest speed
100b	Fan at speed-4 intermediate
101b	Fan at speed-5 third highest speed
110b	Fan at intermediate speed second highest speed
111b	Fan at highest speed