To: INCITS Technical Committee T10

From: Kevin Butt, IBM

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Subject: SSC-3: TapeAlert Delineation

1. Revisions

Incorporated feedback from SSC Working Group. Complete rewrite.

2. Introduction

In response to the ISV Feedback this is a proposal for how to modify the TapeAlerts and specify which are hardware, which are media, and which are firmware. I am also taking this opportunity to specify when the device server will recognize the condition as having gone away and clear the specific tapealert.

3. Proposal

3.1 In 8.2.3 TapeAlert log page:

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Table 59 specifies the format of a TapeAlert log parameter.

TABLE 59. TapeAlert parameter format

Bit Byte	7	6	5	4	3	2	1	0
0	(MSB)			PARAMETER CODE				
1								(LSB)
2	DU	DS(1)	TSD(1)	ETC	TMC		LBIN(0)	LP(0)
3	PARAMETER LENGTH (01h)							
4	CRITICAL	MIR	RETRY	INFO	HW	FW	MEDIA	FLAG

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See SPC-3 for a description of the DU bit, DS bit, TSD bit, ETC bit, TMC field, LBIN bit, and LP bit. The DS bit, TSD bit, LBIN bit, and LP bit shall be set to the value specified in table 59.

A CRITICAL bit set to one when the FLAG bit is set to one indicates this error is critical. A CRITICAL bit set to zero when the FLAG bit is set to one does not indicate this error is critical. When the FLAG bit is set to zero, the CRITICAL bit is not valid.

A manual intervention required (MIR) bit set to one when the FLAG bit is set to one indicates this error requires manual intervention. A MIR bit set to zero when the FLAG bit is set to one does not indicate this error requires manual intervention. When the FLAG bit is set to zero, the MIR bit is not valid.

A RETRY bit set to one when the FLAG bit is set to one indicates this error is informational. A RETRY bit set to zero when the FLAG bit is set to one does not indicate this error is informational. When the FLAG bit is set to zero, the RETRY bit is not valid.

An INFO bit set to one when the FLAG bit is set to one indicates this error is informational. An INFO bit set to zero when the FLAG bit is set to one does not indicate this error is informational. When the FLAG bit is set to zero, the INFO bit is not valid.

A hardware (HW) bit set to one when the FLAG bit is set to one indicates this error is hardware related. A HW bit set to zero when the FLAG bit is set to one does not indicate this error is hardware related. When the FLAG bit is set to zero, the HW bit is not valid.

A firmware (FW) bit set to one when the FLAG bit is set to one indicates this error is firmware related. A FW bit set to zero when the FLAG bit is set to one does not indicate this error is firmware related. When the FLAG bit is set to zero, the FW bit is not valid.

A MEDIA bit set to one when the FLAG bit is set to one indicates this error is media related. A MEDIA bit set to zero when the FLAG bit is set to one indicates this error is not media related. When the FLAG bit is set to zero, the MEDIA bit is not valid.

An active TapeAlert flag has the FLAG bit set to one. An inactive TapeAlert flag has the FLAG bit set to zero.