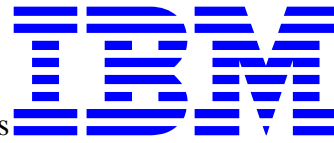


To: INCITS Technical Committee T10

From: Kevin Butt

Date: February 12, 2008

Document: T10/07-372r1 — SMC-3 - Medium Magazine Error Codes



## 1 Revisions

07-372r0. (August 24, 2007) Initial revision

07-372r1. (February 12, 2008) Expanded to include model section for media magazine.

## 2 Introduction

The SMC-3 working group is attempting to clarify what additional sense codes are used in SMC devices and when they are presented. I have been given the assignment to propose those codes for Medium Magazines.

NOTE 1 - Sept WG: I need to create the full proposal for when used and where inserted into SMC-3. Perhaps there should be a model clause for these sense codes. Should be linked to Move Medium and exchange media command. Open/Close Import/Export Element.

### 3 Proposal

3.1.19 media magazine: A structure consisting of one or more elements (e.g., import/export element, ~~or~~ storage elements) that is used to contain a set of volumes within the media changer. Some media changer devices allow an operator to remove the magazine from the media changer (see clause 5.3).

#### 5.3 Media magazine

A media changer may organize import/export elements or storage elements into physical groupings that may be accessed as one entity using a structure called a media magazine. A media magazine consists of:

- a) one or more import/export elements;
- b) one or more storage elements; or
- c) one or more elements where the elements are a mixture of import/export elements and storage elements.

Table 1 describes when additional sense codes related to media magazines are used.

**Table 1 — Media magazine additional sense codes**

<u>Additional Sense Code</u>	<u>When used</u>
<u>UNIT ATTENTION, MEDIUM MAGAZINE REMOVED</u>	<u>A magazine has been removed from the media changer</u>
<u>UNIT ATTENTION, MEDIUM MAGAZINE INSERTED</u>	<u>A magazine has been inserted into the media changer</u>
<u>UNIT ATTENTION, MEDIUM MAGAZINE LOCKED</u>	<u>A magazine has been locked; Storage elements in the magazine may now be accessed by the medium transport element.</u>
<u>UNIT ATTENTION, MEDIUM MAGAZINE UNLOCKED</u>	<u>A magazine has been unlocked; Movement of the magazine is allowed and storage elements in the magazine may not be accessed by the medium transport element.</u>
<u>NOT READY, MEDIUM MAGAZINE NOT ACCESSIBLE</u>	<u>A magazine has been changed (e.g., magazine has been unlocked, position has changed, etc.) such that the magazine is not accessible by the medium transport element and an attempt to access the magazine is attempted.</u>  Editor's Note 1: Note that there is no method described in the SMC-3 whereby a media magazine may be addressed. I assume those libraries that can move magazines use Move Medium and/or Exchange Medium with a special address. A library vendor who uses media magazines should address this shortcoming.

#### 5.4 Volume tag information

Editor's Note 2: Nothing changed in the Volume tag information clause except numbering

#### 6.11.4 Medium transport element descriptor

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An element disabled (ED) bit set to one indicates that the element is disabled (e.g., a [media](#) magazine or drive is not installed or has been logically disabled). An ED bit set to zero indicates that the element is enabled.

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### 7.3.3 Extended Device Capabilities mode page

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A storage magazine (SMGZ) bit set to one indicates that the media changer uses ~~medium~~[media](#) magazines for some storage elements. A SMGZ bit set to zero indicates that the media changer does not use ~~medium~~[media](#) magazines for any storage element.

An import/export magazine (IEMGZ) bit set to one indicates that the media changer uses ~~medium~~[media](#) magazines for some import/export elements. An IEMGZ bit set to zero indicates that the media changer does not use ~~medium~~[media](#) magazines for any import/export element.

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