

Set Book Type proposal

Revision 0.2b

X.X.X Format Override Feature (00xxh)

This feature identifies the ability of the Logical Unit to override the physical format information (book type and book version). This feature applies exclusively to recordable and rewritable DVDs.

Table 1. Format Override Feature Descriptor

Bit	7	6	5	4	3	2	1	0
Byte								
0	(MSB) Feature Code = 00xxh (LSB)							
1								
2	Reserved			Version = 0h			Persistent	Current
3	Additional Length = 02h							
4	BTOS #7	BTOS #6	BTOS #5	BTOS #4	BTOS #3	BTOS #2	BTOS #1	BTOS #0
5	BTOS #15	BTOS #14	BTOS #13	BTOS #12	BTOS #11	BTOS #10	BTOS #9	BTOS #8

The Feature Code shall be set to 00xxh.

The Version field shall be set to 0h.

The Persistent bit shall be set as in [5.2.3 / MMC-4].

The Current bit shall be defined as in [5.2.4 / MMC-4]. This bit shall be set to zero if recordable or rewritable DVD media with which the feature is supported by the Logical Unit is not present. The Logical Unit may support this feature only for a subset of recordable or rewritable DVD media or may support this feature for all recordable and rewritable DVD media.

The Additional Length field shall be set to 02h.

BTOS (Book Type Override Supported) #n bit shall indicate if media with Book Type value n can be override by this Logical Unit. Book Type is a 4 bits value defined in the physical specifications of each type of DVD.

X.X Format Override Mode Page (Page Code XXh)

X.X.1 Introduction

The Format Override (Table 3) specifies if the Logical Unit shall override the book type and book version of in the lead-in when writing a recordable or rewritable DVD.

Table 588 shows the Features associated with the Read/Write Error Detection and Recovery Mode Page.

Table 2. Features Associated with the Format Override Mode Page

Feature Number	Feature Name	Requirement
00xxh	Random Readable	Mandatory

To override the physical format information, the host must set the Format Override Mode Page prior to format a rewritable disc or prior to write a lead-in on a writable disc.

X.X.2 The Mode Page and its Parameters

X.X.2.1 The Mode Page

Table 3. Format Override Mode Page Format

Bit	7	6	5	4	3	2	1	0
Byte								
0	PS	Reserved	Page Code (XXh)					
1	Page Length (2+2*n)							
2	Reserved							
3	Number of Format Override Descriptors Blocks (n)							
4 - 4+n*2	Format Override Descriptor Block(s)							

X.X.2.2 PS

The Parameters Savable (PS) bit is defined in 7.1.4.1.

X.X.2.3 Page Code

The Page Code field shall be set to XXh, identifying the Format Override Mode Page.

X.X.2.4 Page Length

The Page Length shall be set to 2+2*n where n is the Number of Format Override Descriptors Blocks at the end of this mode page.

X.X.2.5 Number of Format Override Descriptors Blocks (n)

The Number of Format Override Descriptors Blocks (n) field specifies the number of Format Override Descriptor(s) that follow this field. A value of zero is not an error. If the Number of Format Override Descriptors Blocks is zero, there is no Format Override set currently.

X.X.2.6 Format Override Descriptor Block(s)

The Format Override Descriptor Block is structured as shown in Table 4.

Table 4. Format Override Descriptor Block

Bit	7	6	5	4	3	2	1	0
Byte								
0	Media Type				Reserved		BT_V	BV_V
1	New Book Type				New Book Version			

X.X.2.6.1 Media Type

The Media Type field specifies which type of DVD this Format Override will apply to. As Media Type values, Book Type values are used. Book Type values are defined in the physical specifications of each type of DVD.

X.X.2.6.2 BT_V (Book Type Valid)

The BT_V bit specifies if the New Book Type field value is valid. When BT_V bit is 0, the New Book Type field is not valid and the Logical Unit shall not override the Book Type in the physical format information of the disc. When BT_V bit is 1, the New Book Type field is valid and shall be used by the Logical Unit to override the physical format information of the disc.

X.X.2.6.3 BV_V (Book Version Valid)

The BV_V bit specifies if the New Book Version field value is valid. When BV_V bit is 0, the New Book Version field is not valid and the Logical Unit shall not override the Book Version in the physical format information of the disc. When BV_V bit is 1, the New Book Version field is valid and shall be used by the Logical Unit to override the physical format information of the disc.

X.X.2.6.4 New Book Type

The New Book Type field specifies the value to override the physical format information. The Book Type values are defined in the physical specifications of each type of DVD.

X.X.2.6.5 New Book Version

The New Book Version field specifies the value to override the physical format information. The Book Version values are associated with each Book Type and are defined in the physical specifications of each type of DVD.