Command set proposal ~BCA Read Command

Blu-ray Disc Association TEG5

07-423R0

Proposal

- Define BCA Read command for BD media
 - To read out BCA recorded BD media
 - Use same read command for DVD media
 - READ DISC STRUCTURE command with Format Code 03h
 see table 1 to 3
 - All data in BCA are returned, see table 4
 - "BCA information" is returned from BCA
 - The length of "BCA information" is 64 bytes
- Modify BD read feature
 - To indicate supporting BCA read command
 - Add "BCA Read" field in BD read feature, see table 5
 - Assign 1 bit to "BCA Read" field
 - '1' means the drive supports BCA read command

In detail

New Command Structure to read BCA Data

Table 1 Read Disc Structure CDB

Bit	7	6	5	4	3	2	1	0		
Byte										
0	Operation Code (ADh)									
1	Reserved Media Type									
2	(MSB)	(MSB)								
3		Address								
4	Address									
5	(LSB)									
6	Layer Number									
7	Format									
8	(MSB) Allocation Longth									
9			Allocation Length (LSB)							
10	AGID	D Reserved								
11	Control									

Table 2 Media Type Codes

Media Type Code	Media				
0000b	DVD and HD DVD types				
0001b	BD				
0010b – 1111b	Reserved				

In detail

New Command Structure to read BCA Data

Format Code	Layer Field Usage	Address Field Usage	Description	
00h	Layer	Reserved	Physical Information from the DVD/HD DVD Lead-in area	
01h	Layer	Reserved	Copyright Information from the DVD Lead-in area	
02h	Reserved	Reserved	Disc Key obfuscated by a Bus Key	
03h	Reserved	Reserved	Burst Cutting Area information on DVD/HD DVD media	
04h	Layer	Reserved	Disc Manufacturing Information from the DVD/HD DVD Lead-in area	<u>Table 3</u> b) Structure Format Code
			1	Definitions for Media Type 0001b (= BD)

	Format Code	Structure	Addres s	Layer Number	Description
	00h	DI	-	-	Disc Information from PIC in Embossed area
					Address field is reserved
Add Same code/function					Layer field is reserved
	01h — 07h	Reserved	-	-	-
	08h	DDS	-	-	Disc Definition Structure

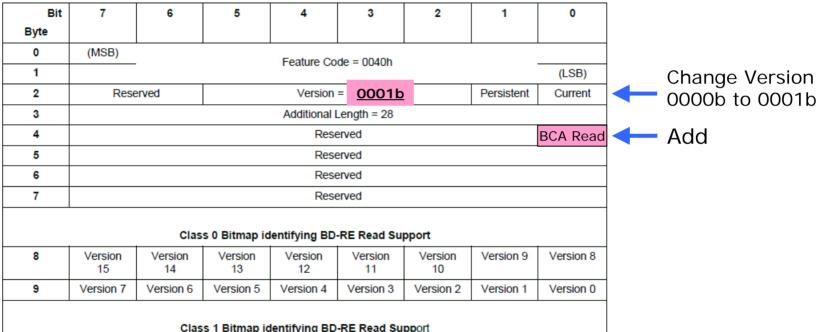
<u>Table 4</u> READ DISC STRUCTURE Data Format (Format field =03h)

Bit	7	6	5	4	3	2	1	0	
Byte									
0	(MSB)								
1		-		Disc Structure					
2									
3									
0			All of BCA data 4						
	BCA Information								
63									

In detail

the structure of BD Read feature

Table 5 BD Read feature



the rest is omitted

END