Subject: MMC-3 Defects

Date: 11 September 2002
From: Bill McFerrin, MMC WG Chair and Editor

The following 4 defects have been reported to the MMC WG. The WG has reviewed the claims and agrees that the listed are indeed defects in MMC-3.

1. MMC-3 draft rev 10g, Sub-clause 5.20.1, READ DVD STRUCTURE command, Table 179

Bit / Byte	7	6	5	4	3	2	1	0
0 - 8	Copy of bytes 0 through 8 from ADIP information block							
9	If CDZ PSN ≤ 2F0FFh, then this value shall be the PSN of last recorded sector in DZ. Otherwise, this value may be either the PSN of last recorded sector in DZ, or the last possible PSN in the DZ.							
10								
11								
12 - 18	00h							
19 - 255	Copy of bytes 19 - 255 from ADIP information block							
256 - 2048	Reserved							

The yellow highlighted value is not correct. The value should be 2F2FFh.

2. MMC-3 draft rev 10g, Sub-clause 5.21, READ FORMAT CAPACITIES command, Table 210

Descriptor Type	Description
00b	Reserved
01b	Unformatted Media. The reported value is for the maximum formatted capacity for this media. For DDCD/CD-RW medium, the value reported is the maximum possible when using Format Type 10h.
10b	Formatted Media. The reported value is the current media's capacity. In the case of sequential writable media, the number of blocks field indicates the number of blocks between the first Lead-in and the Lead-out or Border-out. When the media done not have a complete session it shall be reported as "No Media Present" with Descriptor Type = 11b.
11b	No Media Present. The reported value is for the maximum capacity of a media that the Logical Unit is capable of reading.

The yellow highlighted value is not correct. The value should be 00h.

3. MMC-3 draft rev 10g, Sub-clause 5.41, WRITE AND VERIFY (10) command, Table 337

Bit / Byte	7	6	5	4	3	2	1	0
0	OPERATION CODE (2Eh)							
1	Reserved			DPO (0)	Reserved		BytChk (0)	RELADR
2	(MSB)							
3	Logical Block Address							
4								
5								(LSB)
6	(MSB)							
7	Transfer Length							
8								
9								(LSB)
10	Reserved							
11	Control							

This is the CDB for WRITE AND VERIFY (12) with the operation code for WRITE AND VERIFY (10). The Table should appear as:

Bit / Byte	7	6	5	4	3	2	1	0
0	Operation Code (2Eh)							
1	Reserved			DPO	Reserved		BytChk	RELADR
2	(MSB)							
3	Logical Block Address							
4								
5								(LSB)
6	Reserved							
7	(MSB)	Transfer Length						
8								(LSB)
9	Control							

4. MMC-3 draft rev10g: Speed Selection and Reporting

In sub-clause 5.34, page 272, text below table 321 states,
In case of CAV recording, Logical Unit Write Speed shall be specified with the speed at most inner program area of the disc. Assume that the outer most radius: 79min 59sec 74frames.

The yellow highlighted word "inner" should be "outer".

Additionally, Table 321 lists only CLV and CAV recording. The column 2 entry labeled "CLV recording" should be "not pure CAV recording" and the column 2 entry labeled "CAV recording" should be "pure CAV recording".

In sub-clause 6.3.11, text below table 365 is:
The Write Speed Supported field indicates the write speed that is supported by the Logical Unit. In the case of CAV recording, the returned value shall indicate the speed at most inner program area of the disc. Assume that the outermost radius: 79 min, 59 sec, 74 frames.

The yellow highlighted word "inner" should be "outer".

Additionally, Table 365 lists only CLV and CAV recording. The column 2 entry labeled "CLV recording" should be "not pure CAV recording" and the column 2 entry labeled "CAV recording" should be "pure CAV recording".