Minutes of MMC WG Meeting, 12 July 2006

During T10 Meeting Week at: The Antlers Hilton Hotel
                               4 South Cascade Avenue
                               Colorado Springs, CO 80903

                               Hosted by LSI Logic

1.   Opening Remarks

The MMC meeting has been authorized by INCITS T10 and will be conducted under the INCITS rules. Ad hoc meetings take no final actions, but prepare recommendations for approval by the INCITS task group. The voting rules for the meeting are those of the parent committee, INCITS T10. For the ad hoc, other than straw votes, the voting rules are: one vote per participating company.
The minutes of the MMC meeting will be posted to the T10 Reflector and will be included in the next T10 committee mailing. Attendance at a working group meeting does not count toward minimum attendance requirements for T10 membership. Working group meetings are open to any person or company to attend and to express their opinion on the subjects being discussed.

2.   Introductions

The following people were present at the meeting:

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Kenji Akahoshi        Hitachi
Kenji Tokumitsu       Hitachi-LG Data Storage
Kenji Yoshihara       JVC
Mike Koo              Nero
David Walp            Microsoft
Mark Overby           NVidea
Takaharu Ai           Panasonic
Bill McFerrin         Philips
Keiji Katata          Pioneer
Masaetsu Takahashi    Ricoh
Toshitaka Kuma        Sanyo
Norichika Mine        Sony NEC Optiarc
Akio Yamazaki         Sony NEC Optiarc
Hideki Takahashi      Toshiba
Shunsuke Kimura       Toshiba
Takao Shirai          TSST
Curtis Stevens        Western Digital
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3.   Document Distribution

This agenda
MMC5R03A.PDF
Letter ballot comment resolution

4.   Call for Patents

None answered.

5.   Approval of Agenda

Added an agenda item to discuss e-mailed questions from David Burg (Microsoft).

6. Old Business

6.1. MMC-5
Review changes to MMC5R03 in response to letter ballot comments that produced MMC5R03A.
Additional comments:

1. Table 503, BD-R description for RT is clearer if it is changed to BDA command set description:
   RT = 0b when the track is the invisible/incomplete track
   RT = 1b when the track is not the invisible/incomplete track
2. It may be helpful to add a note that RT is useful only for CD recording applications.

6.2. ATA
Curtis Stevens and Mark Overby wish to consult with MMC WG to report on proposals before T13 about ACS.

In 7.17.2 of the IDENTIFY PACKET DEVICE command description (rev 3D) it is proposed to add:
"The IDENTIFY PACKET DEVICE data contains information regarding optional feature or command support. If the host issues a command that is indicated as not supported in the IDENTIFY PACKET DEVICE data, the device shall abort the command."

This means that ATAPI (and SATAPI) drives must make their behavior match the packet device data, particularly with respect to words 82 – 84. See also 4.3 PACKET FEATURE SET and New Capabilities added to ATA8-ACS (also known as ACS-1).

For ACS-2, a proposal is pending to repeat IDENTIFY DEVICE data in a log page (e.g. log page 1). This permits collecting by information by DMA and also permits expansion of the information.
Question to MMC WG: If this is extended to packet devices, is it OK to use the same log page address?

References:
A list of defined log pages is in the ACS Annex A.
At t13.org see the latest version of document e06122 for the current work list for ATA8-ACS.

7. New Business

MMC-6 Project Proposal was accepted by T10 and INCITS.
7.1. Planning: Expected new material
DVD-RW DL proposals after approved for Fuji 7.
HD DVD-RW proposals after approval for Fuji 7.
HD DVD-R DL proposals after approval for Fuji 7.

7.2. Planning: Expected legacy and obsolete
Make the SET READ-AHEAD command a legacy command.
Create a new revision of Real-time Streaming Feature that does not require the SET READ-AHEAD command.
Make the ERASE (10) command, the MO Erasable Profile, and the Sector Erasable Feature obsolete.
Make the Media Serial Number Feature obsolete/legacy.
Make the Optical Write-once Profile obsolete/legacy.
Make the AS-MO profile obsolete/legacy.

Discuss comments from David Burg with respect to Fuji 7 and consequently, MMC6.
The question is: what sort of file system is used for DVD-RW DL LJ recording? A read-only file system such as ISO-UDF bridge format can be made to work.

8.   Review of Action Items

Chair shall post the ATA8-ACS questions to the T10 and Fuji reflectors.

Chair shall post the ACS-2 questions separately to the T10 and Fuji reflectors.

The editor will make final adjustments to MMC5 and post MMC5R03B.

The chair will send e-mails requesting opinions about the obsolete/legacy proposals in 7.2 above.

Chair will discover INCITS disposition on MMC-5 and post to reflector.

Katata-san will respond to David Burg's questions directly with more detail than we have in these minutes.

9.   Future Meeting Schedule

The September T10 week is 11 – 15 in Nashua, NH. There is a conflict with an OSTA meeting in Tokyo during that same week.

Proposal: Move the September MMC WG to the Tokyo area. It has been suggested that Pioneer and Toshiba can be hosts. We must have a firm schedule by August 15. Final decisions are to be taken during the Fuji meetings August 9, 10.

10.   Adjournment