Subject: MMC Working Group Minutes - Tuesday 15 January 2002

From: Bill McFerrin, MMC WG Chair
To: T10 Members
Date: 16 January, 2002

T10 Meeting week at:
Houston Marriott North at Greenspoint
255 N. Sam Houston Parkway
Houston, TX 77069
phone (281) 875-4000
phone (800) 228-9290
fax (281) 873-5956

Hosted by: Compaq, Robert Elliott

Agenda:
1.0 Opening Remarks
Bill McFerrin opened the meeting at 9AM. The chair had the following remarks:

1. A MRW Plugfest is being sponsored by Microsoft near Redmond on Wednesday and
   Thursday of this T10 week. Since some MMC WG members have expressed the
   desire to attend both the MMC meeting and the plugfest, we moved our meeting
   from Wednesday to Tuesday only for the January 2002 meeting.
2. T10/02-015R0.PDF is on the T10 web site. This document is a plan for the
   development of MMC-4.
3. This 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, NCITS T10. For the ad hoc,
   other than straw votes, the voting rules are: one vote per participating
   company.
4. The minutes of this 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.

2.0 Introductions
Attendance was light for reasons listed above.

Terry Nelson, Panasonic America
Bill McFerrin, Philips
David Hanes, HP
Takahashi, Ricoh
Nakagawa, Ricoh

3.0 Document Distribution
The amended agenda was distributed. E-mail from ANSI editor Harvey Rosenfeld
was received and Bill McFerrin crafted responses. This was given document
number T10/02-xxx.

4.0 Call for Patents
No response.

5.0 Approval of Agenda
The amended agenda was approved with no negative responses.

6.0 Old Business
MMC3 Comments from ANSI editor and responses from MMC3 editor.

The WG reviewed each comment and agreed with each response from the MMC-3 editor. When completed, it was agreed that all changes were simple typographical and reference errors and made no substantial change to MMC-3. It is the unanimous recommendation of the WG that these changes be made with no further action from T10.

7.0 New Business
This is the first meeting that we were able to dedicate all new business to MMC-4. Bill McFerrin placed document T10/02-xxx on the T10 website detailing the document plan. Additionally, there are proposals from other members and non-members.

7.1 Review the MMC-4 plan document, T10/02-015r0.pdf. This should result in r1. In general, there was no objection to the proposal. Members wish to review further, but will allow the editor to proceed with development.

7.2 Review new proposals for inclusion in MMC-4.
7.2.1 DVD+MRW
Philips and Ricoh expect to be able to disclose the command set document during the March meeting.

7.2.2 DVD+R
Philips and Ricoh expect to be able to disclose the command set document during the May meeting. An effort will be made to make this available during the March meeting.

7.2.3 DAP bit in READ CD/READ CD MSF commands
Newer software in many systems is using a single sound system based on the PC motherboard (MB). The MB has a CODEC part that is capable of playing standard CD audio PCM exactly as it is read from CD media. This capability removes the need for an analog audio cable from the MM device to the MB. Cost is reduced, and reliability is improved. A problem has been noted from several members with respect to quality of method of CD-audio play. Most MM devices read CD audio exactly as discovered on the media - including erred data due to flaws, scratches, and grime. Most MM devices also have the ability to process the digital stream in order to improved the quality when played through the analog system built into the device. This makes MM device audio play quality significantly better than MB audio play quality.

The proposal is to use a currently reserved bit in the READ CD and READ CD MSF CDBs as a switch to request that the device deliver a digital audio stream that has been processed for improved audio quality. It is proposed that this bit be labeled the Digital Audio Playback (DAP) bit. When DAP is clear, the MM device shall return CD DA data exactly as read from the media. When DAP is set, the MM device shall return digital audio data that has been processed for improved sound quality. The bit shall be ignored when reading data is not digital audio.

7.2.4 Media Serial Number
This proposal from Emily Hill of Microsoft was intended to cover all removable media. We wish to hear the status from Emily. We expect that she will be able to report at the March meeting.

7.2.5 Firmware Creation Date Feature
Henry Gabryjelski of Microsoft has noted that there is no specific method for
identifying a device firmware revision level - only product identification.

Henry proposes that this information be included as a feature descriptor that
identifies the creation time in ISO format. Further discussion was deferred
until we hear from Emily Hill.

8.0 Review of Action Items
Bill McFerrin has started MMC-4 draft version 0 development. He has avoided
large changes that have no specific WG approval. The WG has decided that Bill
shall produce and post (to the T10 website) a version 0 based upon the document
plan.

9.0 Future Meeting Schedule
Wednesday 13 March 2002 at:
Crowne Plaza Suites
7800 Alpha Road
Dallas, Texas
Phone: 972-233-7600
FAX: 972-788-0947

The host is Texas Instruments, Paul Aloisi

10.0 Adjournment
The meeting was adjourned at 11:45AM. Ricoh members were attending the meeting
in Seattle and the WG membership agreed that continuing with such a small
gathering would be less productive.

Regards,
Bill McFerrin, (CD Edge, Inc) for Philips Electronics, NA
720-320-0790