Document: T10/02-117.r0
Subject: MMC Working Group Minutes - Wednesday 13 March 2002

From: Bill McFerrin, MMC WG Chair
To: T10 Members
Date: 14 March 2002

MMC Working Group - Wednesday 13 March 2002
9:00 AM - 5:00 PM

T10 Meeting week at:
Crowne Plaza Suites
7800 Alpha Road
Dallas, Texas
Phone: 972-233-7600
FAX: 972-788-0947

Hosted by: Texas Instruments, Paul Aloisi

Agenda:

1.0   Opening Remarks

1.1   The most recent revision of the MMC-4 draft is on the T10 website: MMC4R01A.PDF.

1.2   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, INCITS T10. For the ad hoc, other than straw votes, the voting rules
        are: one vote per participating company.

1.3   The minutes of this meeting will be posted to the 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
        HP   David Hanes
        Iomega   Tim Bradshaw
        Panasonic   Terry Nelson
        Philips   Bill McFerrin
        Ricoh   Takahashi
        Ricoh   Nagamo
        Mine   Sony

3.0   Document Distribution
        Draft 1a was distributed among for those who did not download it from the T10 website.

4.0   Call for Patents
        No responses.

5.0   Approval of Agenda
        No objections.

6.0   Old Business
The ANSI editor found 5 additional reference errors in MMC-3 draft 10g. The WG agreed that these errors are minor and obvious. It is recommended that T10 accept the changes.

7.0   New Business

7.1   MMC-4 draft revision 1a review

7.1.1   Review Clauses 1, 2 and 3 - check again for errors/exclusions
a. David Hanes pointed to an error on the cover page: MMC-3 technical editor should be MMC-4 Technical Editor.

b. Clause 2: Older documents that are labeled NCITS shall remain NCITS.
Newer documents will be labeled INCITS. Bill McFerrin to make these corrections.

c. Clause 2: MMC-3 is an INCITS document, not a NCITS document. MMC-3 is a 2002 document not a 2001 document.

d. SPC-3 is labeled a document under development. The status of SPC-3 needs to be determined.

e. Clause 2: Approved references, include ECMA 268, ECMA 272 or ISO/IEC equivalents.

f. Clause 2: References under development: ECMA ??? documents DVD-RAM 4.7 GB.

g. Clause 2: Other references, some revision numbers are old and need to be corrected. Capitalize the word "revision" since it is part of the name of the document.

h Clause 3: CD/DVD is a term that is not future proofed. This should be replaced.

i. Clause 3: De-Icing definition: note that this is a read-only problem.

j. Clause 3: HMSF/TIME get rid of one term.

k. Clause 3: Put DVD+R in abbreviations.

7.1.2   Review Clause 4 - organization, accuracy or content, completeness of content
a. DVD-video is a special case of DVD-ROM. The term and references should be removed.

b. 8 cm DVD media is not referenced in MMC-3, however, several DVD types define 8 cm media (e.g. ECMA 268, ECMA 272). This should be documented in clause 4.

c. Figure 20 (p 79) label is wrong. Change DVD+RW to DVD.

d. 4.4.1.2 - Use PSN and change to 22F00h

e. The control data zone is embossed on DVD-R/-RW and DVD-RAM.

f. 4.4.6.1 Cross reference to figure 32 is missing.

g. DVD-RAM ver 1.0 and ver 2.1 need better definition e.g. capacity
DVD-RAM has layer = 0 only (ECMA 272).

       h. DVD-R/-RW layer = 1?

       i. DVD-R: table 37 is a copy of a DVD-RAM table. Correct.

       j. Figure 33: A sentence is needed that reference this figure.

7.1.3   Other items
       a. The WG agreed that MM devices and SCSI Fibre Channel are not compatible due to cost and performance mismatches. Fibre Channel references are to be removed from MMC-4.

       b. The WG agreed that MM devices and SCSI Serial Storage Architecture are not compatible due to cost and performance mismatches.   SSA references are to be removed from MMC-4.

       c. USB is the second most used attachment for MM devices, so an annex describing attachment is in order. USB documents are private, so Tim Bradshaw will investigate where we go to seek permission to reference documents and overview implementations in an annex to MMC-4.

7.2 New proposals for MMC-4.

       a. DVD+R - deferred until public disclosure is allowed by the promoters.

       b. DVD+MRW - deferred until public disclosure is allowed by the promoters.

       c. DAP bit in Read CD - proposed by Dell for audio play without audio hardware in MM devices.

       d. Command to read media serial number: Should be defined in SPC-3 as MAM command.

8.0 Review of Action Items - Plan for next revision of MMC-4 draft

8.1 Action items from 7.1
       a. Bill McFerrin to perform corrections listed in 7.1 above.

       b. Bill McFerrin will determine disposition of MMC on FC and SSA.

       c. Terry Nelson to report on DVD-RAM questions (ECMA and ISO standards).

       d. Bill McFerrin to discover disposition of command for reading media serial number.

8.2 New development
       a. Tim Bradshaw to investigate needs for USB references (i.e. permission from private groups & perhaps an editor for the USB annex).

       b. Bill McFerrin to investigate possibility of an editor from Microsoft for GESN annex.

9.0 Future Meeting Schedule
Wednesday 1 May 2002, during T10 week at:

Sheraton Nashua Hotel
11 Tara Boulevard
Nashua, New Hampshire
Phone: (US) 603 888-9970

Hosted by: Hitachi Cable Manchester, Inc., Zane Daggett

10.0 Adjournment
The meeting adjourned at 2PM.

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