

**T10/02-117.r0 MMC Working Group Minutes - Wednesday 13 March 2002**

**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
lomega	Tim Bradshaw
Panasonic	Terry Nelson
Philips	Bill McFerrin
Ricoh	Masaetsu Takahashi
Ricoh	Masaaki Nakagawa
Sony	Norichika Mine

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. Once the DVD part of clause 4 was reorganized around media types, it appears that DVD-RAM is short on information. Terry Nelson, Panasonic, agreed to investigate and provide additional information. Terry was able to point to ECMA documents that should be listed in clause 2. These should also be helpful. Terry will report to the WG on any discoveries at the next MMC WG.
    - b. DVD-video is a special case of DVD-ROM. The term and references should be removed.
    - c. 8 cm DVD media is not referenced in MMC-3, however, some DVD types define 8 cm media (e.g. ECMA 268, ECMA 272). This should be documented in clause 4.
    - d. Figure 20 (p 79) label is wrong. Change DVD+RW to DVD.
    - e. 4.4.1.2 - For absolute smallest address, use PSN and change to 22F00h.

- f. Its should be noted that the control data zone is embossed on DVD-R/-RW and DVD-RAM.
  - g. 4.4.6.1 The cross reference to figure 32 is missing.
  - h. DVD-RAM ver 1.0 and ver 2.1 need better definition e.g. capacity DVD-RAM has layer = 0 only (ECMA 272).
  - i. Question for Pioneer (Khoda-san) DVD-R/-RW one or two layers?
  - j. DVD-R: table 37 is a copy of a DVD-RAM table. This must be corrected.
  - k. Figure 33: A sentence is needed that references 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