MMC WG Meeting Minutes, Tuesday 6 May 2008, T10/08-236r0

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

Bill McFerrin   DPHI

David Walp   Microsoft

Reiner Kopf   Nero

Keiji Katata   Pioneer

Michael Hyun   TSST

3. Document Distribution

Bill McFerrin distributed T10/08-065r2 and the meeting agenda. Katata-san distributed MtFuji7, revision 1.00 and requested that it be posted on the T10 website.

4. Call for Patents

Katata-san brought a disclosure from Pioneer. Bill McFerrin will convey the disclosure to the T10 chair.

5. Approval of Agenda

Included certain MtFuji discussions. Noise and power control discussions.

6. Old Business

The Optical SSC Specification has been accepted by the TCG Storage Working Group and has been forwarded to the TCG Technical Committee for review. The document should be approved to go to the public area of the TCG website by the end of the summer. Some changes since the last version (0.80) of the companion MMC document are represented in rev 0.85.

Of note is the fact that the PSAbegin, PSAend, VolumeZeroBegin, and VolumeZeroEnd methods were removed. These are not necessary since the administrative user type (Initializer) was defined. When that user enters the authenticated state, the "begin" methods are presumed. When that user exits the authenticated state, the "end" methods are presumed.

The Optical SSC Specification went through a 4 week review in the TCG SWG and passed a ballot early in April. It is now forwarded to the TCG Technical Committee for review. It is expected that the Optical SSC will be available on the public part of the TCG website by mid-summer.

7. New Business

7.1 Review differences between proposed MtFuji 7 and MMC-5. It could be that the results might affect MMC-6.

In particular, David Burg (Microsoft) has discovered inconsistencies with respect to INQUIRY response data. This is to be discussed. Are there other cases?

Version

MMC-5 references SPC-3 since it was the most recently published version of SPC. SPC-3 permits the values 03h, 04h, or 05h. When SPC-4 is published, the value 06h will also be permitted.

Mt Fuji is roughly consistent with SPC-1.

When the Version field = 0, the 4 high order bits of the following byte reference the ATAPI transport version. Otherwise, the Version field is consistent with SPC specified values. Ralph Weber is to be consulted in the best path.

Response Data Format

Mt Fuji 7 specifies the value 10b as is required by SPC, SPC-2, SPC-3, and the current draft of SPC-4.

MMC-5 has the value 0011b based upon a proposal for SPC-4. The value is not currently published in SPC-4. This must be investigated, but the current determination is that MMC-5 is not correct.

7.2 Katata-san brought Mt Fuji 7 revision 1.00 to be posted on the T10 website.

He requested the MMC WG to review the final version for any editorial needs.

7.3 Mt Fuji Future Planning

Power and Noise control is planned, but as of the April Fuji meeting, no company has volunteered to study and make proposals. Pending.

Aside:

Bill McFerrin and David Walp had a conversation with Dan Colegrove (T13 chair) about noise control. He had some advice:

1. Two parameters are needed: on/off and level.
2. It is not really possible to define measured values, so the meaning of the level settings are vendor specific. The minimum noise level is the drive maker's lowest noise level while performing some particular function (e.g. DVD playback). The maximum noise level is typically associated with the noise level at maximum performance.

3. When noise level is switched from on to off, it must be defined what happens to performance. Dan suggested that when noise control is switched off, we should state clearly that the drive shall go to a maximum performance level as permitted by other parameters.

7.4 MMC-6, next revision

Bill McFerrin will have a next revision of the MMC-6 draft posted to the T10 website around 1 July.

Plan: Review the draft during Tuesday and Wednesday. Corrections and additions will be made and again a review at the September meeting. We hope to be able to forward to T10 plenary after this review.

8. Future Meeting Schedule

The next T10 meeting week is 15 (or 16) July 2008 at:

Sheraton Anchorage Hotel
401 E 6th Avenue
Anchorage, AK 99501

See T10.ORG for reservation details.

9. Adjournment