To: T10 Membership

From: Erich Oetting

Subject: Minutes of SMC-2/FCP-3 working group meeting (10 March 2003)

1. Opening remarks

Erich Oetting called the meeting to order at 9:05 am, Monday March 10, 2003. He thanked Paul Aliosi and Bob Kando ofTexas Instruments for hosting the meeting in Dallas. As is customary, the meeting attendees introduced themselves.

2. Agenda

In the absence of Dave Peterson, no FCP-3 issues will be discussed. The meeting will be devoted to SMC-2 letter ballot comment resolution (03-052r1)

3. Attendance and Membership

Attendance at working group meetings does not count toward minimum T10 attendance requirements. These meetings are open to any person or organization affected by T10's scope of work. The following people attended this meeting:

Name	Organization	Emil
Ralph Weber	ENDL Texas	roweber@acm.org
Michael Banther	HP	michael_banther@hp.com
Kevin Butt	IBM	kdbutt@us.ibm.com
Lee Jesionowski	IBM	ljesion@us.ibm.com
Paul Entzel	Quantum	paul_entzel@quantum.com
Paul Suhler	Seagate Technology	paul.a.suhler@seagate.com
Erich Oetting	Storage Technology	erich_oetting@storagetek.com
Reif Heck	Storage Technology	heckrj1@storagetek.com
Susan Gray	Quantum	susan.gray@quantum.com
Satish Menon	Aarohi Communications	satish@aarohi.net

10 people present.

4. Results of meeting.

4.1 Adding commands to SMC-2 (HP #76)

Consensus was reached on adding the following SPC-3 commands to SMC-2:

```
ACCESS CONTROLS IN 86h
ACCESS CONTROLS OUT 87h
REPORT DEVICE IDENTIFIER A3h/05h
REPORT TARGET PORT GROUPS A3h/0Ah
REPORT ALIASES A3h/0Bh
REPORT SUPPORTED OPERATION CODES A3h/0Ch
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```
REPORT SUPPORTED TASK MANAGEMENT FUNCTIONS
SET DEVICE IDENTIFIER A4h/06h
SET TARGET PORT GROUPS A4h/0Ah
CHANGE ALIASES A4h/0Bh
```

Commands that reference SCC-2 were not added as the SCC-2 model does not show how these commands should be handled by a media changer. The REZERO UNIT command was made obsolete for SMC-2 by an earlier proposal and will not be added.

4.2 Element List service action (HP #151)

Instead of fixing this command so it can handle a non-contiguous list of elements, the working group agreed to obsolete the Element List service action for Read Attributes. Presence of MAM hardware will be indicated by adding a MAM flag in each element descriptor type (byte 2, bit 7) for Read Element Status.

4.3 Element type field in SEND VOLUME TAG. (Quantum 29).

To avoid problems with returning elements out of order, the working group decided to make the Element Type field in this command obsolete.

4.4 Invert bits in SMC-2 commands and element descriptors. (HP #70)

The group agreed that the invert bits in SMC-2 commands should operate with the assumption that the media has a side A and a side B. The model will need to explain that how this is determined is device specific.

4.5 Making element reservation function obsolete. (HP #49)

This issue was deferred to the next meeting. At least one person attending had misinterpreted this as obsoleting logical unit reserve and release for media changers.

It was decided that the element reservation option of persistent reservations should be made obsolete.

4.6 Setting of MCHGR bit. (Quantum #5).

It was concluded that SPC-3 should be modified to clarify that the MCHGR bit in INQUIRY data should only be set for a device that supports the attached media changer model.

5. Action Items:

5.1 Erich Oetting will write a proposal to correct the definition of the MCHGR bit in the INQUIRY data in SPC-3

5.2 Michael Banther will check within HP if the reserve element function of ELEMENT RESERVATIONS command can be obsolete.

5.3 Erich Oetting will write a proposal to change Service Action 04 in READ ATTRIBUTE command from restricted to reserved in SPC-3.

5.4 Kevin Butt will write a proposal to obsolete the element scope from PR OUT command in SPC-3.

5.5 Erich Oetting will create a new revision of SMC-2 and the letter ballot comment resolution document (03-052r1).

6.0 Future meetings:

The next SMC-2/FCP-3 workiing group meeting will be held during the week of May 5 in Nashua, NH. The exact time and place will be determined by the T10 Plenary.

7.0 Adjournment.

The meeting concluded a few minutes past noon on Monday March 10, 2003.