

Draft Minutes
SCSI Media Changer (SMC) Working Group
Ad Hoc Meeting
T10/05-254r0
11 July 2005
2:30 PM – 7:00 PM MDT

1. **Introductions**

Group

Michael Banther called the meeting to order at 2:45 PM MDT. He thanked LSI for hosting the meeting.

2. **Approval of the agenda**

Michael Banther

Michael Banther discussed the order of the discussion items. Noud suggested we add 05-074r1 authored by Rob Elliott to agenda. 05-271r0 by Greg Wheelless desired to be discussed before Read Element Status changes. Will put in as 8.2.

Greg Wheelless made a motion to accept the agenda. Paul Suhler seconded the motion. The group passed the motion unanimously.

3. **Attendance and Membership**

Michael Banther

Michael Banther reviewed the T10 attendance rules with the group and directed prospective new members to John Lohmeyer. The attendance report appears below.

SMC-3 Working Group Attendance Report - July 2005

<u>Name</u>	<u>S</u>	<u>Organization</u>
Mr. Rod Wideman	V	ADIC
Mr. Noud Snelder	V	BDT
Mr. Michael Banther	V	Hewlett Packard Co.
Mr. Kevin Butt	A	IBM Corp.
Mr. Paul Entzel	P	Quantum Corp.
Ms. Deborah Laurion	V	Quantum Corp.
Mr. Greg Wheelless	A	Symantec

4. **INCITS Patent Policy**

Michael Banther

Michael Banther directed the group to a reading of the [T10 Short Summary](#) of the INCITS Patent Policy.

5. **Approval of previous meeting minutes**

Michael Banther

Michael Banther requested corrections for the minutes of the 2 May 2005 meeting, 05-182r0. Modifications were made to 7.1 where reference to 05-070r0 as revised was changed to 05-070r1 as revised..

Noud Snedler made a motion for acceptance of the minutes as modified. Greg Wheelless seconded the motion. The group passed the motion unanimously.

6. Review of action items:

Kevin Butt

- a. Kevin Butt will make a request to CAP to include Media Changer devices for the Logical Unit Not Ready, Offline additional sense key.
Closed
- b. Greg Wheelless: Investigate PAMR command and all it does. How can we make it simpler. Also, how lock and unlock solenoid should fit in. Interactions should be with Move Medium command.
Carry-Over
- c. Greg Wheelless: Proposal for Model of Import/Export Portal and magazines.
Closed – 05-271r0
- d. Susan Gray: Update per todays discussions 05-063r0.
Closed
- e. Kevin Butt: Send todays discussion to Susan.
Closed
- f. Rod Wideman: Bring in ADIC's vendor-specific mode page that controls cleaning for discussion.
Closed – 05-237r0
- g. Noud Snelder: Revise and post 05-078r0.
Closed
- h. Michael Banther: Revise 05-175r0 and take to Lohmeyer for review. After approval by Lohmeyer and Dave Peterson it will be posted.
Closed
- i. Kevin Butt: Write proposal for Self describe SCSI command timeouts.
Carry-Over
- j. Rod Wideman: Reporting serial number of drive.
05-243
- k. Greg Wheelless: Method to describe accessibility of I/E elements.
Closed 05-271r0
- l. Greg Wheelless: Method to group elements such as a removable magazine.
Closed 05-271r0
- m. Greg Wheelless: Model information on how PAMR interaction with I/E elements.
Carry-Over
- n. Michael Banther: Enhanced TapeAlert capability – synchronization with SSC-3.
Carry-Over
- o. Michael Banther: Reporting of virtual libraries / partitioning to host.
Carry-Over

- p. Paul Entzel : Remove attached media changer model
Carry-Over
- q. Rod Wideman : Method for library to disable a drive so ISV knows not to use it.
Closed. The ED bit of RES does this from a changer point of view.
- r. Rod Wideman : Visibility of media type in storage element. Medium Domain (e.g.
technology) & Medium type (e.g. WORM, Clean, Data, F/W Upgrade)
Carry-Over. Add discussion to unscheduled business.

7. Discussion items:

7.1 SMC-3 Extended device capabilities proposal (05-078r1) [Snelder]

Internally this document is called 05-078r2. r1 was never posted to the site. A discussion with John Lohmeyer to correct this will be discussed later.

This discussion took most of the time with lots of changes.

Should autoclean enable bit include mutual exclusive between the automation and the application client from cleaning? Suggested to add “exclusive” to device capabilities page.

[Michael Banther] Add to 05-063r1 “Review of Clean”. This should include a model section of all ways the media changer is affected by cleaning.

Delay CL_RTN bit until the cleaning model is complete. Remove from this proposal. The problem that is attempting to be addressed is...?

[Greg Wheelless] Change the 3rd paragraph of 5.3.1 to clarify addresses and volumes.

[Noud Snelder] Revise and post 05-078r1 as 05-078r3 pending next Action Item.

[Noud Snelder; Michael Banther] Get revision number corrected with John Lohmeyer.

7.2 Development of SMC-3 Standard (05-175) [Banther]

Shared and ready to send out to ISV's and others

Received notification from SSC working group that Dave Peterson's email has changed. Modify and post 05-175r2 as 05-175r3

7.3 SMC-3 ADIC AutoCleaning mode page (05-237) [Wideman]

Rod does not suggest using the time based cleaning. The only thing of interest is a bit that says autocleaning is enabled or not. This is already covered in device capabilities mode page.

7.4 SMC-3 REQUEST DATA TRANSFER ELEMENT INQUIRY command (05-243)

[Wideman]

Rod made notes of feedback and will revise.

[Rod Wideman] Revise and post 05-243r0 as 05-243r1

8. Unscheduled business:

8.1 SMC-3 (05-271r0) [Greg Wheelless]

We were out of time, but since Greg will not be here next meeting cycle we gave him 10 minutes to present the concept to let him see if he is heading in an acceptable direction. There may need to be a component of robotics. There are shoulds that need addressed.

8.2 SMC-3 OPEN/CLOSE IMPORT/EXPORT ELEMENT command (05-070r2) [Snelder]

8.3 SMC-3 Read Element Multi-identifiers (05-153r1) [Banther]

8.4 SPC-3 SPC-4 SES-2 SMC-3 Command requirements (05-074r1) [Banthar]

8.5 Visibility of media type in storage element [Rod Wideman]

9. Next meeting requirements:

Michael Banther

Subject to approval by the T10 Plenary, the group will hold a meeting 12 September 2005 during T10 plenary week in Colorado Vancouver, BC beginning at 2:30 PM and concluding at 7:00 PM.

6 Review new action items:

Michael Banther

- a. [Michael Banther] Add to 05-063r1 "Review of Clean". This should include a model section of all ways the media changer is affected by cleaning. Reference 7.1. ASC/ASCQ's should be specified for all states.
- b. [Greg Wheelless] Change the 3rd paragraph of 5.3.1 to clarify addresses and volumes.
- c. [Noud Snelder] Revise and post 05-078r1 as 05-078r3 pending next Action Item.
- d. [Noud Snelder; Michael Banther] Get revision number corrected with John Lohmeyer.
- e. [Rod Wideman] Revise and post 05-243r0 as 05-243r1
- f. [Michael Banther] Schedule phone conference.

7 Adjournment:

Group

Paul Suhler made a motion for adjournment. Rod Wideman seconded the motion. The group passed the motion unanimously. Michael Banther adjourned the group at 7:54 PM MDT.