

T10/07-324r0: Minutes
SCSI Media Changer (SMC) Working Group
for July 09, 2007, 2:00 PM - 7:00 PM PDT

1. Introductions **Group**

Michael Banther called the meeting to order at 2:00 PM MDT. He thanked LSI for hosting the meeting. Kevin Butt is serving as the secretary of this meeting.

2. Approval of the Agenda **Michael Banther**

Michael Banther presented the agenda (07-xxx). Paul Suhler made a motion to accept the agenda. Noud Snelder 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 2007

Name	S	Organization
Mr. Noud Snelder	V	BDT
Mr. Kevin Marks	P	Dell, Inc.
Mr. Curtis Ballard	V	Hewlett Packard Co.
Mr. Michael Banther	A	Hewlett Packard Co.
Mr. Kevin Butt	A	IBM Corp.
Mr. Geoffrey Barton	V	Overland Storage
Mr. Paul Entzel	P	Quantum Corp.
Dr. Paul Suhler	A	Quantum Corp.
Mr. Raymond Gilson	A	Symantec Corporation

9 People Present

Status Key: P - Principal
A,A# - Alternate
AV - Advisory Member
E - Emeritus
L - Liaison
V - Visitor

4. INCITS Patent Policy **Michael Banther**

Michael pointed to the T10 website (<http://www.t10.org/patpol.htm>).

5. Approval of Previous Minutes **Group**

Kevin Butt asked for any problems with the minutes of the May meeting (07-239r0) and the June telecon (07-276r0) meeting. Kevin Butt made a motion to approve the minutes. Michael Banther seconded. Voting was unanimous.

6. Review of Action Items

Kevin Butt

Kevin Butt reviewed the outstanding action items, and the status of each item was reported as listed below:

06-002 [Michael Banther] Reporting of virtual libraries / partitioning to host.

Closed. 06-272r5

06-020 [Robert Payne] Define a philosophy for Write Exclusive Persistent Reservations in SMC.

Carry-Over

06-044 [Roger Cummings] Solicit additional vendor-specific sense codes from library vendors per June discussion item 4.4.

Carry-Over

06-063 [Noud Snelder] Investigate use of LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED error code.

Carry-Over

07-003 [Curtis Ballard] Create a proposal to define the usage of the “Cleaning Requested” and “Cleaning Failure” error codes.

Carry-Over

07-004 [Kevin Butt] Create a proposal for the “Medium Magazine” error codes.

Carry-Over

07-006 [Rod Wideman] Define a new ASC/ASCQ for “Logical Unit Not Ready – Robotics Disabled”.

Carry-Over

07-012 [Michael Banther] Create and post 06-420r1 (r0 revised as per discussion at the February 21, 2007 conference call).

Closed

07-017 [Group] Make sure the all the functionality of Read Element Status is covered by the Report Element Information command (06-272) and the Report Volume Information command and examine if an informative annex to map the RES command onto these is appropriate. [Reminder to do as final step]

07-027 [Rod Wideman] Revise and post SMC-3 New Additional Sense Codes Usage (07-018r0) as 07-018r1.

Carry-Over

07-028 [Curtis Ballard] Revise and post SMC-3 Clarification of reporting drive prevented media removal (07-015r1)

Closed

07-029 [Noud Snelder] Revise and post SMC-3 Processed commands during not ready state (07-060r1)

Closed

07-035 [Rod Wideman] Have Michael check the procedure for what to do regarding 99-148r7 which was approved in the May 2000 plenary but did not get put into SMC-2. Does it need to be incorporate it into SMC-3?

Closed

07-036 [Michael Banther] Revise SMC-3 Command table and INQUIRY clean-up (06-477r1) and post of 06-477r2

Closed

07-037 [Noud Snelder] Incorporate SMC-3 Command table and INQUIRY clean-up (06-477r2)

Closed in SMC-3r8

07-038 [Curtis Ballard] Revise SMC-3 Clarification of reporting drive prevented media removal (07-015r2) and post as 07-015r3

Closed

07-039 [Noud Snelder] Incorporate SMC-3 Clarification of reporting drive prevented media removal (07-015r3) into SMC-3

Closed SMC-3r8

07-040 [Curtis Ballard] Revise SMC-3, Report Element Information (06-272r4) and post as 06-272r5

Closed

7. Old Business

Group

7.1 Working List for ISV feedback (SMC/SSC/ADC/SPC) (07-131r0) [Butt]

Kevin Reviewed the status which has not changed since March

7.2 SMC-3: Diagnostics Data log page (06-395r5) [Marks]

Kevin Marks made a motion to recommend SMC-3: Diagnostics Data log page (06-395r5) for inclusion into SMC-3. Kevin Butt seconded the motion.

Noud found that Table z+5 column heading text needs to be corrected and agreed to do that during its incorporation.

The motion passed unanimously.

AI: [Noud Snelder] Incorporate SMC-3: Diagnostics Data log page (06-395r5) into SMC-3.

7.3 SMC-3 Error codes overview (06-397r2) [Snelder]

Deferred

7.4 SMC-3, Report Element Information (06-272r5) [Ballard]

Curtis presented his changes. A lot of time was spent discussing CURDATA=1 and what the behavior should be. There was discussion about trying to make it match RES as much as possible to facilitate migration from RES to REI, but there were also comments about this a

new command.

There was some discussion of when a device should return not ready to this command. There is hesitation to specifying that.

There was a large discussion on the vtl bit. There are objections from some about presenting information about what is virtual and not. Some of the reasons are for licensing and descriptions. Others wish to present this. especially if you have some virtual media and some physical media and the application needs to know that the virtual media cannot be exported. Then there is that only virtual media can be loaded in virtual drives.

Time was called.

7.5 SMC-3 TapeAlert Enhancements (06-420r1) [Banther]

7.6 SMC-3 New Additional Sense Codes Usage (07-018r0) [Wideman]

Deferred.

7.7 SMC-3 Processed commands during not ready state (07-060r2) [Snelder]

Curtis questioned the definition of Not Ready. Kevin Butt agreed that this definition may not be accurate. There may be cases where this definition fails.

The table is leveraging requirements on the SMC device server to return CC when ANY element is not ready. This is becoming more restrictive.

Rod Wideman commented via instant messaging with Paul Entzel that since the intent of this table is to help ADC this belongs in ADC.

Noud withdrew this proposal.

[Paul Entzel] Write a proposal for the commands which the cached ready state in ADC may be used.

Paul asked for input.

7.8 SMC-3, POSITION TO ELEMENT command clarification (07-199r0) [Snelder]

Noud went over his proposal and several edits were made.

Noud Snelder moved that SMC-3, POSITION TO ELEMENT command clarification (07-199r0) as revised be included in SMC-3. Kevin Marks seconded the motion. The motion passed unanimously.

AI: [Noud Snelder] Revise SMC-3, POSITION TO ELEMENT command clarification (07-199r0) and post as 07-199r1.

AI: [Noud Snelder] Incorporate SMC-3, POSITION TO ELEMENT command clarification (07-199r1) into SMC-3.

7.9 SMC-3 Additional sense code for incompatible destination element (07-222r0) [Snelder]

Noud presented his proposal and several edits were made. Suggestions were made to add this text to the Move Medium command and the exchange medium command.

AI: [Noud Snelder] Revise SMC-3 Additional sense code for incompatible destination element (07-222r0) and post as 07-222r1

7.10 SMC-3, READ ATTRIBUTE and WRITE ATTRIBUTE command clarification (07-244r0)

[Snelder]

The question was asked if Michael had asked the Chair about what action is required when an approved proposal in the past was not incorporated into the previous version? Michael asked John Lohmeyer and John recommended that we take a straw poll to give the group a chance to object to incorporating 99-148r7 as is. However, since 07-244r0 replaces 99-148r7 for the purposes of SMC-3 no straw poll is necessary and we will review 07-244r0 and take action as appropriate.

Raymond Gilson stated that if the volume needs to be loaded into a drive and it comes ready in order to do this then it is not worth it. The library needs to have a MAM reader for this to be useful. Also, the data in the MAM is only interesting when the application goes to use the volume.

AI: [Noud Snelder] Revise SMC-3, READ ATTRIBUTE and WRITE ATTRIBUTE command clarification (07-244r0) and post as 07-244r1

8. New Business **Group****9. Next Meeting Requirements** **Michael Banther**

Request same meeting time for Sept meeting Cycle.

10. Review New and Outstanding Action Items **Kevin Butt**

Kevin Butt reviewed the following items with the meeting:

- 06-020 [Robert Payne] Define a philosophy for Write Exclusive Persistent Reservations in SMC.
- 06-044 [Roger Cummings] Solicit additional vendor-specific sense codes from library vendors per June discussion item 4.4.
- 06-063 [Noud Snelder] Investigate use of LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED error code.
- 07-003 [Curtis Ballard] Create a proposal to define the usage of the “Cleaning Requested” and “Cleaning Failure” error codes.
- 07-004 [Kevin Butt] Create a proposal for the “Medium Magazine” error codes.
- 07-006 [Rod Wideman] Define a new ASC/ASCQ for “Logical Unit Not Ready – Robotics Disabled”.
- 07-017 [Group] Make sure the all the functionality of Read Element Status is covered by the Report Element Information command (06-272) and the Report Volume Information command and examine if an informative annex to map the RES command onto these is appropriate. [Reminder to do as final step]
- 07-027 [Rod Wideman] Revise and post SMC-3 New Additional Sense Codes Usage (07-018r0) as 07-018r1.

- 07-041 [Noud Snelder] Incorporate SMC-3: Diagnostics Data log page (06-395r5) into SMC-3
- 07-042 [Paul Entzel] Write a proposal for the commands which the cached ready state in ADC may be used.
- 07-043 [Noud Snelder] Revise SMC-3, POSITION TO ELEMENT command clarification (07-199r0) and post as 07-199r1.
- 07-044 [Noud Snelder] Incorporate SMC-3, POSITION TO ELEMENT command clarification (07-199r1) into SMC-3.
- 07-045 [Noud Snelder] Revise SMC-3 Additional sense code for incompatible destination element (07-222r0) and post as 07-222r1
- 07-046 [Noud Snelder] Revise SMC-3, READ ATTRIBUTE and WRITE ATTRIBUTE command clarification (07-244r0) and post as 07-244r1
- 07-047 [Curtis Ballard] Revise SMC-3, Report Element Information (06-272r5) and post as 06-272r6

11. Adjournment

Group

Kevin Butt made a motion for adjournment. Noud Snelder seconded the motion. The group passed the motion unanimously. Michael Banther adjourned the group at 6:54 PM MDT.