T10/07-181r0: Minutes
SCSI Media Changer (SMC) Working Group
for April 11, 2007, 8:00 AM - 10:00 AM PDT

1.   Introductions   Group

Michael Banther called the meeting to order at 8:00 AM PDT. He thanked HP for hosting the call. Kevin Butt is serving as the secretary of this meeting.

2.   Approval of the Agenda   Michael Banther

Michael Banther presented the agenda (07-179r0). Paul Suhler made a motion to accept the agenda. Rod Wideman 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 - April 2007

            Name                    S           Organization
---------------------------------- -- -----------------------------------
Mr. Noud Snelder                    V  BDT
Mr. Curtis Ballard                  V  Hewlett Packard
Mr. Michael Banther                 A  Hewlett Packard Co.
Mr. Kevin Butt                      A  IBM Corp.
Mr. Geoffrey Barton                 V  Overland Storage
Dr. Paul Suhler                     A  Quantum Corp.
Mr. Rod Wideman                     V  Quantum Corp.

7 People Present

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

4.   INCITS Patent Policy   Michael Banther

5.   Approval of Previous Minutes   Group

Kevin Butt asked for any problems with the minutes of the March meeting (07-132r0). There will be another chance for comments at the May meeting.

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.

        Carryover

06-004   [Roger Cummings] Change the 3rd paragraph of 5.3.1 to clarify addresses and volumes.

        Closed by SMC-3: Clarifying Addresses and Volumes (07-122r0)

06-005   [Roger Cummings] Revise 05-271r2 and post as 05-271r3.

        Carryover

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

        Carryover

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

        Carryover

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

        Carryover

06-066   [Noud Snelder] Incorporate 06-452r1 into the next revision of SMC-3.

        Carryover

07-003   [HP] Create a proposal to define the usage of the "Cleaning Requested" and "Cleaning Failure" error codes.

        Carryover

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

        Carryover

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

        Carryover

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

        Carryover

07-013   [Kevin Butt] Kevin will send a note to the ISV's pointing them to "Working List for ISV feedback (SMC/SSC/ADC/SPC) (05-315r4)" if they desire status.

        Carryover

07-014   [Kevin Marks] accepted an Action Item to revise & post SMC-3: Element Statistics log page for SMC (06-394r3) (06-394r2 as revised).

        Closed

07-015   [Noud Snelder] to incorporate SMC-3: Element Statistics log page for SMC (06-394r3) (06-394r2 as revised) into SMC-3.

Carryover

07-016 [Kevin Marks] Revise and post SMC-3: Diagnostics Data log page, 06-395r4 (06-395r3 as revised).

Carryover

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]

Carryover

07-018 [Kevin Butt] agreed to revise and post SMC-3: RES - Incomplete descriptors (07-035r0)

Carryover

07-019 [Noud Snelder] has an action to incorporate SMC-3: RES - Incomplete descriptors 07-035r1 into SMC-3

Carryover

07-020 [Noud Snelder] to revise SMC-3 Support column in mode page codes and subpage codes table (06-456r2) and post as 06-456r3.

Closed

07-021 [Noud Snelder] to incorporate SMC-3 Support column in mode page codes and subpage codes table (06-456r3) into SMC-3.

Carryover

07-022 [Noud Snelder] to revise and post SMC-3 Add PREVENT ALLOW MEDIA REMOVAL command (06-442r1)

Closed

07-023 [Noud Snelder] to incorporate SMC-3 Medium transport element subclause correction (07-024r0) into SMC-3

Carryover

07-024 [Curtis Ballard] revise and post SMC-3, Report Element Information (06-272r3) (06-272r2 as revised)

Carryover

7. Old Business   Group

7.1   SMC-3 Add PREVENT ALLOW MEDIA REMOVAL command (06-442r1) Noud Snelder

Noud explained his changes. The group seemed to agree with all the technical details, but had several editorial modifications to suggest.

Kevin Butt questioned the change of the text, "While a prevention of medium removal condition is in effect the media changer logical unit shall inhibit mechanisms that normally

allow removal of the medium by an operator." and how the proposed text talks to the physical mechanisms that allow or prevent the removal. It removed all reference to "who" was allowed or prevented (i.e. application client vs. operator). Curtis Ballard agreed. A long discussion ensued.

Rod Wideman suggested that we might need to add an additional field to the PAMR command to handle the who. Kevin Butt suggested that we would need to also add a mode parameter to define the default behavior of who.

Discussion was called due to time.

Kevin Butt will send an email describing the concern with "who" regarding PREVENT ALLOW MEDIA REMOVAL command (06-442r1)

Noud will revise and post SMC-3 Add PREVENT ALLOW MEDIA REMOVAL command (06-442r1) as 06-442r2

7.2	SMC-3 Command table and INQUIRY clean-up (06-477r0)	Michael Banther
7.3	SMC-3 New Additional Sense Codes Usage (07-018r0)	Rod Wideman
7.4	SMC-3 Clarification of reporting drive prevented media removal (07-015r1)	Curtis Ballard
7.5	SMC-3 Processed commands during not ready state (07-060)	Noud Snelder
7.6	SMC-3: Clarifying Addresses and Volumes (07-122)	Roger Cummings
7.7	Working List for ISV feedback (SMC/SSC/ADC/SPC) (05-315r3)	Kevin Butt
7.8	SMC-3: Diagnostics Data log page (06-395r3)	Kevin Marks
7.9	SMC-3 Error codes overview (06-397r2)	Noud Snelder
7.10	SMC-3, Report Element Information (06-272r2)	Curtis Ballard
7.11	SMC-3 TapeAlert Enhancements (06-420r0)	Michael Banther

8. New Business   Group

9. Next Meeting Requirements   Michael Banther

Michael asked if we could have another phone conference before the May meeting. Rod Widemand and Kevin Butt objected. No meeting is planned.

The group will hold a meeting on May 7, 2007 during the T10 plenary week in Seattle, WA beginning upon the completion of the ADI-2 Working Group and completing no later than 7PM PDT.

10. Review New and Outstanding Action Items   Kevin Butt

Kevin Butt reviewed the following items with the meeting:

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

06-005   [Roger Cummings] Revise 05-271r2 and post as 05-271r3.

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 [Halvard Eriksen] Investigate use of LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED error code.

06-066 [Noud Snelder] Incorporate 06-452r1 into the next revision of SMC-3.

07-003 [HP] 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".

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

07-013 [Kevin Butt] Kevin will send a note to the ISV's pointing them to "Working List for ISV feedback (SMC/SSC/ADC/SPC) (05-315r4)" if they desire status.

07-015 [Noud Snelder] to incorporate SMC-3: Element Statistics log page for SMC (06-394r3) (06-394r2 as revised) into SMC-3.

07-016 [Kevin Marks] Revise and post SMC-3: Diagnostics Data log page, 06-395r4 (06-395r3 as revised).

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]

07-018 [Kevin Butt] agreed to revise and post SMC-3: RES - Incomplete descriptors (07-035r0)

07-019 [Noud Snelder] has an action to incorporate SMC-3: RES - Incomplete descriptors 07-035r1 into SMC-3

07-021 [Noud Snelder] to incorporate SMC-3 Support column in mode page codes and subpage codes table (06-456r3) into SMC-3.

07-023 [Noud Snelder] to incorporate SMC-3 Medium transport element subclause correction (07-024r0) into SMC-3

07-024 [Curtis Ballard] revise and post SMC-3, Report Element Information (06-272r3) (06-272r2 as revised)

07-025 [Noud Snelder] revise and post SMC-3 Add PREVENT ALLOW MEDIA REMOVAL command (06-442r1) as 06-442r2

07-026 [Kevin Butt] send an email describing the concern with "who" regarding PREVENT ALLOW MEDIA REMOVAL command (06-442r1)

11. Adjournment   Group

Rod Wideman made a motion for adjournment. Noud Snelder seconded the motion. The group passed the motion unanimously. Michael Banther adjourned the group at 10:00 AM PDT.