

T10/07-489r0: Minutes
SCSI Media Changer (SMC) Working Group
for Nov 05, 2007, 3:30 PM - 7:00 PM PDT

1. Introductions **Group**

Michael Banther called the meeting to order at 3:40 PM PDT. He thanked Hitachi GST 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. Kevin Butt 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 - November 2007

Name	S	Organization
Mr. Noud Snelder	V	BDT
Mr. Curtis Ballard	V	Hewlett Packard Co.
Mr. Michael Banther	A	Hewlett Packard Co.
Mr. Rob Elliott	P	Hewlett Packard Co.
Mr. Christopher Williams	V	Hewlett Packard Co.
Mr. Kevin Butt	P	IBM Corp.
Mr. Geoffrey Barton	V	Overland Storage
Dr. Paul Suhler	P	Quantum Corp.
Mr. Paul Stone	V	Quantum Corporation
Mr. Erich Oetting	P	Sun Microsystems, Inc.
Mr. Raymond Gilson	A	Symantec Corporation
Mr. Halvard Eriksen	AV	Tandberg Storage
12 People Present		

Status Key: P - Principal
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**

Michael Banther asked for any problems with the minutes of the July meeting (07-407r0) meeting. Kevin Butt made a motion to approve the minutes. Paul Suhler 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:

06-020 [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

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

Carry-Over

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]

Carry-Over

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

Carry-Over

07-042 [Paul Entzel] Write a proposal for the commands which the cached ready state in ADC may be used.

A new owner needs to be assigned.

07-048 [Michael Banther] Send Kevin the statement from the HP Trademark lawyers about HP willing to not enforce the TradeMark it holds on “TAPEALERT”.

Closed.

07-049 [Roger Cummings] Investigate Symantec position of if we should improve SMC TapeAlerts or obsolete them.

They need improved.

Closed.

07-050 [Kevin Butt] Investigate IBM position of if we should improve SMC TapeAlerts or obsolete them.

They need improved.

Closed.

07-051 [Curtis Ballard] Investigate HP position of if we should improve SMC TapeAlerts or obsolete them.

They need improved.

Closed.

07-052 [Rod Wideman] Investigate ISV's position of if we should improve SMC TapeAlerts or obsolete them.

Closed

07-053 [Kevin Butt - Secretary] Investigate ISV's position of if we should improve SMC TapeAlerts or obsolete them.

They need improved.

Closed.

07-054 [Geoff Barton] Investigate ISV's position of if we should improve SMC TapeAlerts or obsolete them.

Closed

07-055 [Erich Oetting] Investigate ISV's position of if we should improve SMC TapeAlerts or obsolete them.

They need improved.

Closed.

07-056 [Georg Boasson] Investigate ISV's position of if we should improve SMC TapeAlerts or obsolete them.

They need improved.

Closed.

07-057 [Michael Banther] Revise SMC-3 TapeAlert Enhancements (06-420r1) and post as 06-420r2.

Closed

07-058 [Kevin Butt] Revise SMC-3: Medium Magazine Error Codes (07-372r0) and post.

Carry-Over

07-059 [Noud Snelder] Noud Snelder Revise SMC-3 Additional sense code for incompatible destination element (07-222r1) and post.

Carry-Over

7. Old Business

Group

- 7.1 Working List for ISV feedback (SMC/SSC/ADC/SPC) (07-131r0) [Butt]
Deferred
- 7.2 SMC-3 Error codes overview (06-397r2) [Snelder]
Deferred
- 7.3 SMC-3, Report Element Information (06-272r6) [Ballard]
Deferred
- 7.4 SMC-3 TapeAlert Enhancements (06-420r2) [Banther]

The group discussed clearing action for TapeAlerts flag 0Dh. The group concluded that this is intended to be cleared when “The start of the next medium transport element operation involving movement of a volume”. Reworded to “Transition of a task to the enabled state that involves movement of a volume by a medium transport element.” (i.e., A new command arrives that causes movement.)

Ray Gilson pointed out that this provides a means where the application can lose the information. Kevin Butt pointed out that these flags (0Dh, 0Eh, and 0Fh) are only useful for statistics so why are they mandatory. What use are they?

Ray asked if SSC would cause the drive to assert a TapeAlert flag. He said most SSC flags are optional. Michael asked him if he would like to take a proposal into SSC to make some of the flags mandatory.

The question came up as to what is the definition of “offline” in SMC?

There is confusion about what TapeAlert flag 19h (illegal operation) does in each vendors library.

AI: Group: Determine what actions set TapeAlert flag 19h (illegal operation) and when the flag is cleared. Also what actions does it generate?

Further discussing and scrubbing of TapeAlert deactivations was done.

Michael next asked for suggestions for activation conditions for the flags.

Ran out of time.

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

- 7.6 SMC-3 Additional sense code for incompatible destination element (07-222r1) [Snelder]

Noud Snelder moved that SMC-3 Additional sense code for incompatible destination element (07-222r1) as modified during the September SMC working group be incorporated into SMC-3. Curtis Ballard seconded. Motion passed unanimously.

Noud Snelder to revise and post SMC-3 Additional sense code for incompatible destination element (07-222r1).

Nould Snelder to incorporate SMC-3 Additional sense code for incompatible destination element (07-222r1) as revised

- 7.7 SMC-3, READ ATTRIBUTE and WRITE ATTRIBUTE command clarification (07-244r2) [Snelder]

Noud went over the changes to this proposal and edits were made.

Rob Elliott asked why we did not update SMC-3 to referencing SPC-4 throughout instead of just the one special case? An action item was generated to review SMC-3 for changing references to SPC-4.

Nould Snelder made a motion to include SMC-3, READ ATTRIBUTE and WRITE ATTRIBUTE command clarification (07-244r2) as revised into SMC-3. Paul Suhler seconded the motion. The motion passed unanimously.

Nould to post and incorporate.

- 7.8 SMC-3: Medium Magazine Error Codes (07-372r0) [Butt]
Deferred.

8. New Business

9. Next Meeting Requirements Michael Banther

Michael asked if anybody wanted a teleconference. Noud Snelder said yes. Kevin Butt and Paul Suhler stated they did not want a telecon due to too many other teleconferences in the queue. The decision was made to not have a teleconference.

Request same meeting time for January 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.
- 07-006 [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.
- 07-042 [Paul Entzel] Write a proposal for the commands which the cached ready state in ADC may be used.
- 07-058 [Kevin Butt] Revise SMC-3: Medium Magazine Error Codes (07-372r0) and post.
- 07-059 [Noud Snelder] Noud Snelder Revise SMC-3 Additional sense code for incompatible destination element (07-222r1) and post.

===== New Action Items This Meeting =====

- 05Nov07-01 Kevin Butt: Determine what actions set TapeAlert flag 19h (illegal operation) and when the flag is cleared. Also what actions does it generate?
- 05Nov07-02 Curtis Ballard: Determine what actions set TapeAlert flag 19h (illegal operation) and when the flag is cleared. Also what actions does it generate?
- 05Nov07-03 Erich Oetting: Determine what actions set TapeAlert flag 19h (illegal operation) and when the flag is cleared. Also what actions does it generate?
- 05Nov07-04 Rod Wideman: Determine what actions set TapeAlert flag 19h (illegal operation) and when the flag is cleared. Also what actions does it generate?
- 05Nov07-05 Halvard Eriksen: Determine what actions set TapeAlert flag 19h (illegal operation) and when the flag is cleared. Also what actions does it generate?
- 05Nov07-06 Noud Snelder: Determine what actions set TapeAlert flag 19h (illegal operation) and when the flag is cleared. Also what actions does it generate?
- 05Nov07-07 Nould Snelder to incorporate SMC-3 Additional sense code for incompatible destination element (07-222r1) as revised.
- 05Nov07-08 Group review SMC-3 for changing SPC-3 references to SPC-4.
- 05Nov07-09 Noud Snelder to revise and post SMC-3, READ ATTRIBUTE and WRITE ATTRIBUTE command clarification (07-244r2).
- 05Nov07-10 Noud Snelder to incorporate SMC-3, READ ATTRIBUTE and WRITE ATTRIBUTE command clarification (07-244r2) as revised into SMC-3.

11. Adjournment

Group

Kevin Butt made a motion for adjournment. Paul Suhler seconded the motion. The group passed the motion unanimously. Michael Banther adjourned the group at 6:58 PM PST.