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Draft Minutes
SCSI Media Changer (SMC) Working Group
Ad Hoc Meeting
T10/05-182r0
2 May 2005
2:30 PM – 7:00 PM CDT

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1. **Introductions**   Group

Michael Banther called the meeting to order at 2:30 PM CDT. He thanked Fujitsu for hosting the meeting.

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

Michael Banther discussed the order of the discussion items. Items were added.

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.

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SMC Working Group Attendance Report - May 2005

          Name                       S         Organization
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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.
Dr. Paul Suhler                      A  Quantum Corp.
Mr. Greg Wheeless                    A  Veritas Software

7 People Present

Status Key:  P    -  Principal
             A,A# -  Alternate
             AV   -  Advisory Member
             L    -  Liaison
             V    -  Visitor
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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 7 March 2005 meeting, 05-118r0. No one offered corrections.

Rod Wideman made a motion for acceptance of the minutes as written. Paul Suhler seconded the motion. The group passed the motion unanimously.

6. **Review of action items**:   Kevin Butt

   a. Michael Banther will talk to John Lohmeyer about putting together a standard statement to request input from the ISVs on behalf of the working group[Closed]

   b. Noud Snelder will incorporate 05-026r0 into SMC-3 as revised. [Closed]

   c. Kevin Butt will make a request to CAP to include Media Changer devices for the Logical Unit Not Ready, Offline additional sense key.[carry-over]

   d. Noud Snelder will revise 05-070r0 per discussion item 7.2 of 05-118r0.[closed]

   e. Noud Snelder will incorporate 05-015r2 into SMC-3.[closed]

7. **Discussion items:**

   7.1 SMC-3 Open/Close Import/Export Element (05-070r1) [Snelder]
   Discussion revolved around the difference of Lock/Unlock; PAMR; and Open/Close. Veritas states that when import/export element has been accessed is issued the results are not standard so they repeatedly issue Move MEDIUM until it passes. That is, what does closed mean? UA behaviour for scan complete (new UA) should be in model section not in this command.
   Noud Snedler made a motion for incorporation of 05-070r0 as revised into SMC-3. Michael Banther seconded. The motion passed unanimously.

   7.2 SMC-3 Extended device capabilities (05-078r0) [Snelder]
   All these properties were copied from the Microsoft TDK. Greg said he doesn't know of any ISV's that use a Microsoft Media Changer driver. The group reviewed this proposal with many suggestions for modifications and gave Noud direction on how to make changes to be standard's consistent. Greg, "We hate autoclean".
   Noud to revise and post.

   7.3 SMC-3 Prioritized feature list (05-063r0) [Gray] Michael Banther presented in Susan's absence. AI: for Susan to update.

Feature	Assignee	Source	Priority
Self describe SCSI command timeouts	Kevin Butt	Rod Wideman 05-047r0	1
Support for mixed media types within a single media changer	Michael Banther	Project Proposal 04-279r0	1
Reporting serial number of drive	Rod Wideman	Data Protector 05-038r0	1
Enhanced support for linking multiple media changers; Treat combination as a single library		Project Proposal 04-279r0; Data Protector 05-038r0	2
Method to describe accessibility of I/E elements	Greg Wheeless	Rod Wideman 05-047r0	2
Method to group elements such as a removable magazine	Greg Wheeless	Rod Wideman/Paul Suhler 04-386r0	2
Model information on how PAMR interaction with I/E elements	Greg Wheeless	Erich Oetting 04-386r0	2
Enhanced TapeAlert capability – synchronization with SSC-3	Michael Banther	Project Proposal 04-279r0	2
Reporting of virtual libraries / partitioning to host	Michael Banther	Data Protector 05-038r0	2
Remove attached media changer model	Paul Entzel	Paul Entzel 04-386r0	2
Method for library to disable a drive so ISV knows not to use it	Rod Wideman	Rod Wideman 05-047r0	2
Visibility of media type in storage element. Medium Domain (e.g. technology) & Medium type (e.g. WORM, Clean, Data, F/W Upgrade)	Rod Wideman	Data Protector 05-038r0	2
Enhanced media changer model		Project Proposal 04-279r0	3
Method for ISV to disable a drive		Rod Wideman 05-047r0	3
Support for addressing by VOLTAG		Erich Oetting 04-386r0	3

8. Unscheduled business:

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

Approached to make backward compatible with existing vendor-specific behaviours. This goal was not really met, but the intent is to provide familiarity so we can discuss in detail in

July. A lot of discussion was had. Comments provided by mail will be considered fro revision.

8.2   Development of SMC-3 Standard (05-175r0) [Banther]
Michael will Rev and take to Lohmeyer for review.

8.3   Veritas Input to SMC-3 Features (05-171r0) [Cummings/Wheeless]

Greg will work with Michael Banther to ensure that Michaels proposal on mixed media will meet Veritas requirement related to 05-171r0.

8.4 Tunnelling Inquiry Command Discussion [Wideman]

9.   Next meeting requirements: Michael Banther

Subject to approval by the T10 Plenary, the group will hold a meeting 11 July 2005 during T10 plenary week in Colorado Springs, CO beginning at 2:30 PM and concluding at 7:00 PM.

10. Review new action items: Michael Banther

   a. Greg Wheeless: 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.

   b. Greg Wheeless: Proposal for Model of Import/Export Portal and magazines.

   c. Susan Gray: Update per todays discussions 05-063r0.

   d. Kevin Butt: Send todays discussion to Susan.

   e. Rod Wideman: Bring in ADIC's vendor-specific mode page that controls cleaning for discussion.

   f. Noud Snelder: Revise and post 05-078r0.

   g. Michael Banther: Revise 05-175r0 and take to Lohmeyer for review. After approval by Lohmeyer and Dave Peterson it will be posted.

   h. Kevin Butt: Write proposal for Self describe SCSI command timeouts

   i. Rod Wideman: Reporting serial number of drive

   j. Greg Wheeless: Method to describe accessibility of I/E elements

   k. Greg Wheeless: Method to group elements such as a removable magazine

   l. Greg Wheeless: Model information on how PAMR interaction with I/E elements

   m. Michael Banther: Enhanced TapeAlert capability – synchronization with SSC-3

   n. Michael Banther: Reporting of virtual libraries / partitioning to host

     o. Paul Entzel : Remove attached media changer model

     p. Rod Wideman : Method for library to disable a drive so ISV knows not to use it

     q. Rod Wideman : Visibility of media type in storage element. Medium Domain (e.g. technology) & Medium type (e.g. WORM, Clean, Data, F/W Upgrade)

11. Adjournment: Group
Greg Wheeless made a motion for adjournment. Rod Wideman seconded the motion. The group passed the motion unanimously. Michael Banther adjourned the group at 7:43 PM CDT.