SCSI Stream Commands - 3: Working Group Minutes – Draft (T10/05-048r0)
Date: 1/19/05
Time: 9-1 pm
Location: Las Vegas, NV

Agenda

1. Opening remarks and introductions [Peterson]

2. Approval of agenda (04-393r1) [Peterson]

3. Approval of meeting minutes (04-311r0) [Peterson]

4. Review of old action items [Butt]

1. Dave Peterson: Bring in a White Paper on the value added with Explicit Command Set.

2. Roger Cummings: Bring in document to support differentiation of media supported and drive supported density code.

3. Kevin Butt: Submit a proposal for a definition of WORM.

4. Kevin Butt: Rev and post 03-010r1 Sequential-Access Device log page.

5. Dave Peterson: Review initiator vs I_T nexus throughout document

6. Michael Banther: Bring in proposal to improve handling of cleaning and firmware upgrade cartridges.

7. Group: Look into obsoleting RSMK and secondly obsoleting setmarks

8. Dave Peterson: Remove references to interblock gaps and erase gaps.

9. Michael Banther: Bring in proposal for State-based TapeAlert

10. Michael Banther: Bring in proposal for Requested Recovery log page from ADC

11. Michael Banther: Bring in proposal for Device Statistics log page from ADC

12. Paul Suhler: Lead a discussion of the proposal developed in ADI WG for Introduction of a physical device into the model section of SSC-3

5. Old business

6. New Business

6.1 SSC-3 Reservation model cleanup (04-283r1) [Elliot]

6.2 SSC-3: WORM Tamper Read Enable (04-335r1) [Banther]

6.3 SSC-3 Investigation of TapeAlert deficiencies (04-358r0) [Banther]

6.4 SSC-3 model sub clause for WORM (04-373r0) [Entzel]

6.5 SSC-3: Definition of WORM (04-312r0) [Butt]

7. Unscheduled business

8. Next meeting requirements

9. Review of new action items [Butt]

10. Adjournment

Attendance

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SSC-3 Working Group Attendance Report - January 2005


          Name                    S          Organization
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Mr. Noud Snelder                    V  BDT
Mr. David Peterson                  P  CNT
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. Erich Oetting                   P  Storage Technology Corp.
Mr. Roger Cummings                  P  Veritas Software
Mr. Greg Wheeless                   A  Veritas Software


9 People Present


Status Key:  P    -  Principal
             A,A# -  Alternate
             AV   -  Advisory Member
             L    -  Liaison
             V    -  Visitor
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Results of Meeting

1. Opening remarks and introductions [Peterson]

Dave Peterson welcomed everybody to the meeting and thanked Hitachi for hosting. Introductions were made.

2. Approval of agenda (05-042r1) [Peterson]

Dave Peterson made a motion for acceptance of the modified agenda. Erich Oetting seconded the motion. In the absence of objections or abstentions, the group passed the motion unanimously.

3. Approval of meeting minutes (04-390r0) [Peterson]

Dave Peterson made a motion for acceptance of the minutes. Michael Banthar seconded the motion. In the absence of objections or abstentions, the group passed the motion unanimously.

4. Review of old action items [Butt]

4.1 Dave Peterson: Bring in a White Paper on the value added with Explicit Command Set.

Carry over

4.2 Roger Cummings: Bring in document to support differentiation of media supported and drive supported density code.

Carry Over

4.3 Kevin Butt: Rev and post 03-010r1 Sequential-Access Device log page.

(Closed:05-002r1)

4.4 Dave Peterson: Review initiator vs I_T nexus throughout document.

Carry Over

4.5 Michael Banther: Bring in proposal to improve handling of cleaning and firmware upgrade cartridges.

Carry Over

4.6 Dave Peterson: Remove references to interblock gaps and erase gaps.

Carry Over

4.7 Michael Banther: Bring in proposal for State-based TapeAlert.

Carry Over

4.8 Michael Banther: Bring in proposal for Requested Recovery log page from ADC.

Carry Over

4.9 Michael Banther: Bring in proposal for Device Statistics log page from ADC

Carry Over

4.10 Paul Suhler: Lead a discussion of the concept discussed in ADI WG for Introduction of a physical device into the model section of SSC-3.

Closed

4.11 Dave Peterson: Send message on reflector to obsolete RSMK and setmarks.

Closed

4.12 Dave Peterson: Definition for Erase short.

Carry over

4.13 Michael Banther: rev and post 04-335r1

Closed

4.14 Paul will revise his proposal with a table made from the spreadsheet and then Kevin Butt will pick it up and go forward.

Closed: Refer to 04-373

4.15 Paul: Rev his proposal 04-373 based off telecon discussion and post.

Closed

4.16 Kevin: Rev 05-002 and post.

Closed

5. Old business

5.1 SSC-3: Model sub clause for WORM (04-373r1) [Entzel]

FMKS

Greg: Do we need concept in filemarks that we cannot append to data since we have write protect mode. Veritas in interested in case number 01 (i.e. n-1 fmks can be overwritten) of filemarks restriction.

Group: strick 01 and 03h and move remaining such that 0-1h are reserved. We know these possibilities exist, but nobody here is using them so let's not define them.

LABELS:

type 02h is a problem. If we don't strike it here we will have to during letter ballot.

Make definition of Label format "a series of vendor-specific logical objects that..

Paul Entzel moved that 04-373r1 as modified be included. Kevin Butt seconded.

Michael Banthar: Should we make this the Medium Configuration mode page and WORM sub-page. Move restrictions fields in the mode page to start at byte 4 to be on 4-byte boundary.

vote passed unanimously. Paul E. to rev and post.

5.2 SSC-3: WORM Tamper Read Enable (04-335r2) [Banther]

Michael Banthar moved to accept. Kevin Butt seconded. Passed unanimously.

Dave Peterson: We have used up the device configuration mode page.

6. New Business

6.1 SSC-3: Sequential-Access Device log page (05-002r0) [Butt]

The edits that kevin had made but not posted were liked. Kevin needs to post a rev. The suggestion was made by Michael Banthar to see what can be made mandatory. Greg from Veritas really liked this functionality.

Greg: If parameter 6 were an "at least" instead of "approx.". Can we add a parameter that gives the size of the 'object buffer' in at least. This object buffer size may be adjusted real-time.

Roger said he would provide a document from an Architect about what the user wants.

6.2 SSC-3: Fix REPORT DENSITY SUPPORT data (05-014r0) [Entzel]

Kevin Butt moved for incorporation. Dave Peterson seconded. Passed unanimously.

6.3 SSC-3: Synchronize Mode Page Table with SPC-3 (05-037r0) [Banther]

Kevin Butt moved for incorporation. Michael Banthar seconded. Passed Unanimously.

6.4 SSC-3: Model subclause for physical device (no doc) [Suhler]

Pual showed Figure 3 from ADC and discussed the need for a physical device.

The discussion centered around what was intended by a physical device. There are modifications that one device server makes that effect how another device server behaves. How can we explain the effect without having a new entity such as a device server?

Purpose of UA's is that something changed in the device such that an Application client should know about it. Whether it is caused by a different application client or a something else.

Greg: It would be nice if a drive resets due to a different device server for the app to get a UA.

Paul Entzel: prefer to define device as a set of attributes/states that are a relationship between multiple device servers. e.g. state of medium in drive - load, mounted, writing, etc.

Greg: we use tapealerts for cleaning.

Paul: possible to never report cleaning in tapealert if library does automated cleaning.

Gerg: For things like this that make a drive unavailable (lib has taken control) if the drive were to act like it were reserved by some other app then we know how to behave. I'm not proposing this, but if there were something similar (also it will be this long) then we could handle that. Microsoft only returns 18 bytes. If we ask for anything more, then it is a separate command. This may be using the correct ASC/ASCQ. SSC-3 needs a model for how to behave during cleaning.

Need to check that 04-119 was incorporated int SSC-3.

Erich: We use deferred error to indicate something from outside caused an abort.

Greg: Additional ASC/ASCQs that are grouped would be sufficient to solve my problem.

Michael has cleaning and firmware upgrade that he will create a proposal for.

Paul E.: Have a device that has access to medium and attributes. There is a means of modifying the state of the device that is external to the standard. It may be a front panel or a serial connection, etc.

Paul E: Here is a set of attributes that can be changed by the device server and by means outside this the scope of this standard. So this needs a standard term to talk about these things.

Paul Suhler: AI to write a proposal.

7. Next meeting requirements

The consensus of the group was to request 4 hours during the next T10 week, Mar. 9 in Dana Point, CA.

8. Review of new action items [Butt]

Carry Over

8.1 Dave Peterson: Bring in a White Paper on the value added with Explicit Command Set.

8.2 Roger Cummings: Bring in document to support differentiation of media supported and drive supported density code.

8.3 Dave Peterson: Review initiator vs I_T nexus throughout document.

8.4 Michael Banther: Bring in proposal to improve handling of cleaning and firmware upgrade cartridges.

8.5 Dave Peterson: Remove references to interblock gaps and erase gaps.

8.6 Michael Banther: Bring in proposal for State-based TapeAlert.

8.7 Michael Banther: Bring in proposal for Requested Recovery log page from ADC.

8.8 Michael Banther: Bring in proposal for Device Statistics log page from ADC

8.9 Dave Peterson: Definition for Erase short.

New

8.10 Dave Peterson: Incorporate 05-014r0 into SSC-3.

8.11 Paul Suhler to write a proposal against the model section of SSC for a physical device

8.12 Paul Entzel to rev and post 04-373r1 as modified

8.13 Dave Peterson to incorporate 04-373r2 into SSC-3

8.14 Dave Petereson to incorporate 04-335r2 into SSC-3

8.15 Dave Peterson to incorporate 05-035r0 into SSC-3.

Adjournment

Dave Peterson made a motion to adjourn the meeting. Greg Wheeless seconded the motion. The meeting was adjourned at 11:57am.