

SCSI Stream Commands - 3: Working Group Minutes – Draft (T10/04-311r0)

Date: July 14, 2004

Time: 9-1 pm

Location: Colorado Springs, CO

Agenda

- 1. Opening remarks and introductions [Peterson]**
- 2. Approval of agenda (04-201r0) [Peterson]**
- 3. Approval of meeting minutes (04-232r0) [Peterson]**
- 4. Review of old action items [Butt]**
- 5. Old business**
- 6. New Business**
 - 6.1 SSC-3 Reservation model cleanup (04-283r0) [Elliot]**
 - 6.2 Review SSC-2 White Paper [Peterson]**
- 7. Unscheduled business**
- 8. Next meeting requirements**
- 9. Review of new action items [Butt]**
- 10. Adjournment**

Attendance

Name	S	Organization	Electronic Mail Address

Mr. David Peterson	P	CNT	david_peterson at cnt dot com
Mr. Kevin Butt	V	IBM Corp.	kdbutt at us dot ibm dot com
Mr. Paul Entzel	P	Quantum Corp.	paul dot entzel at quantum dot com
Mr. Michael Banther	V	HP	michael dot banther at hp dot com
Dr. Paul Suhler	V	Seagate Technology	Paul dot A dot Suhler at certance dot com
6 People Present			

Status Key:

- P - Principal
- A,A# - Alternate
- AV - Advisory Member
- L - Liaison
- V - Visitor

Results of Meeting

1. Opening remarks and introductions [Peterson]

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

2. Approval of agenda (04-201r0) [Peterson]

Pual Enzel asked for review of work items for SSC-3 be added to the agenda.

Michael Banther made a motion for acceptance of the modified agenda. Paul Suhler seconded the motion. In the absence of objections or abstentions, the group passed the motion unanimously.

3. Approval of meeting minutes (04-232r0) [Peterson]

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

4. Review of old action items [Butt]

1. Dave Peterson: Bring in a White Paper on the value added with Explicit Command Set. Carry Over
2. Roger Cummings: Bring in document to support differentiation of media supported and drive supported density code. Carry Over
3. Dave Peterson: Review SSC-2 letter ballot and list carried over from SSC-2 WG. Closed
4. Dave Peterson: Incorporate 04-211r1 into SSC-3. Closed in ssc3r01b
5. Kevin Butt: Post a message to the reflector soliciting definitions of WORM. Closed
6. Kevin Butt: Submit a proposal for a definition of WORM. Carry Over
7. Paul Entzel: Post 04-178r2 (04-178r1 as modified). Closed
8. Dave Peterson: Incorporate 04-178r2 into SSC-3. Closed
9. Paul Entzel: Post 04-104r2 (04-104r1 as modified). Closed
10. Dave Peterson: Incorporate 04-104r2. Closed
11. Dave Peterson: Incorporate SSC-2 LB Quantum-83 into SSC-3. Closed
12. Kevin Butt: Rev and post 03-010r1 Sequential-Access Device log page. Carry Over

5. Old business

6. New Business

6.1 SSC-3 Reservation model cleanup (04-283r0) [Elliot]

Need to review initiator vs I_T nexus throughout document.

Michael Banther: Suggested using editorial change in 4.2.18 of:

Table 11 specifies the behavior of commands from registered I_T nexuses when a registrants only or all registrants persistent reservation is present. Accepted.

Is the concept covered in two paragraphs removed from 4.2.18 covered in SPC-3?

The question is, "If it is ever possible to send data with the command IU in some protocol?" Is this what those two paragraphs are intending to say?

Enabled Task State def'n in SAM-3r13a 8.5.2 states you can pre-fetch the data prior to entering enabled task state. More discussion related to "current task state" and "enabled task state". "current task" appears to relate to only data or status transfers.

iSCSI can do this and FCP can do this if transfer ready is disabled.

We believe that SAM adequately covers this situation.

Kevin Butt moved that 04-283r1 (04-283r0 as modified) be recommend for inclusion into SSC-3. Michael Banther seconded.

6.2 Review SSC-2 White Paper [Peterson]

Discussion covered possibility of running tagged commands prior to SSC-2. Also the single command/resonse model is related to initiator not target. Untagged task attribute has been removed from SAM-3 and so tagged queueing must be covered and be sufficient.

Dave Peterson will send out a draft of his working copy for review soliciting comments.

Reason behind White Paper is to explain why explicit command set is desirable.

Need to get with ISV's and get good discussions to help them warm up to this.

Discussion of backup recovery/retry and transport error recovery and how this can solve both.

We need to generate demand from ISV's.

6.3 Review work items for SSC-3 [Peterson]

1. Remove references to interblock gaps and erase gaps. Dave
2. Definition of behavior of short erase. Group to monitor
3. Kevin: mandatory explicit command set - Open
4. Michael improved handling of cleaning and firmware upgrade (need proposal)
5. 03-010: sequential-access device page - gas guage
6. obsolete RSMK - Group look into obsoleting RSMK and obsoleting setmarks.
7. State-based tapealert - Michael Banther
8. Review Veritas wish list - Group
9. Requested Recovery log page from ADC - Michael
10. Device Statistics log page from ADC - Michael

11. Introduction of a physical device into the model - Paul Suhler

6.4 Sequential-Access Device log page (03-010r1) [Butt]

Displayed and got refresher on edits to make..

7. Next meeting requirements

The consensus of the group was to request 3 hours during the next T10 week, Nov 8 - 10, at Austin, TX. On Tues.

8. Review of new action items [Butt]

Carry Over

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.

New

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

9. Adjournment

Dave Peterson made a motion to adjourn the meeting. Paul Suhler seconded the motion. The meeting was adjourned at 11:06.