

Minutes May 2007 SSC-3 (07-332r0)

Date: July 10, 2007

Time: 11:00am-7:00pm

Location: Colorado Springs, CO

Agenda

1. Opening remarks and introductions

Dave Peterson thanked LSI for hosting.

Attendance

SSC-3 Working Group Attendance Report - July 2007

Name	S	Organization
Mr. Noud Snelder	V	BDT
Mr. David Peterson	P	Brocade
Mr. Gideon Avida	P	Decru
Mr. Robert H. Nixon	A	Emulex
Mr. Ralph O. Weber	P	ENDL Texas
Mr. Curtis Ballard	V	Hewlett Packard Co.
Mr. Michael Banther	A	Hewlett Packard Co.
Mr. Kevin Butt	A	IBM Corp.
Mr. Geoffrey Barton	V	Overland Storage
Mr. Paul Entzel	P	Quantum Corp.
Dr. Paul Suhler	A	Quantum Corp.
Mr. Gerald Houlder	P	Seagate Technology
Mr. Erich Oetting	P	Sun Microsystems, Inc.
Mr. Raymond Gilson	A	Symantec Corporation
Mr. David Black		EMC

15 People Present

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

2. Approval of agenda (07-330r0) [Peterson]

Dave Petereson moved that the agenda as revised be approved. Paul Suhler seconded the motion. Passed unanimously.

3. Approval of meeting minutes (07-238r1) [Peterson]

Kevin pointed out that the minutes were corrected due to feedback received from Michael Banther. Dave Peterson made a motion to approve the minutes. Kevin Butt seconded the motion. The motion passed 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 Michael Banther: Bring in proposal to improve handling of cleaning and firmware upgrade cartridges.

Carry-Over

4.3 Kevin Butt: add cleaning bits from 05-213 to his proposal and find log page for them.

Closed - 07-219r0 and 06-138r4

4.4 Roger Cummings: produce a proposal to describe the events that shall activate and deactivate the cleaning related tape alert flags and to add a second flag for predictive failure of the medium.

Carry-Over

4.5 Micheal Banther: Create a proposal to add additional activation conditions to TapeAlert. See note in 05-154r3 to bring in new proposal for this additional info.

Michael stated he will not be able to get to this by September. Dave asked to keep it as an action and carry-over into SSC-4.

4.6 [Kevin Butt] revise and post TapeAlert Delineation (06-138r3)

Closed

4.7 [Michael Banther] accepted an action to update 06-420r0 to match the device severity code definition table from 06-138r4.

Closed - 06-420r1 updated with a question to SMC WG if they will accept this.

4.8 Dave Peterson to add Additional controls for keyless copy (07-016r2) into SSC-3

Closed - SSC-3r03d

4.9 [Kevin Butt] Revise and post Configurable EW (05-423r3)

Closed - 07-218r2

4.10 [Matt Ball] Revise and post Using NIST AES Key-Wrap for Key Establishment (06-225r5)

Closed

4.11 [Dave Peterson] Incorporate Using NIST AES Key-Wrap for Key Establishment (06-

225r6)

Closed - SSC-3r03d

4.12 [Kevin Butt] Revise and post Keyless Copy of Encrypted Data (06-462r7) as revised

Closed

4.13 [Dave Peterson] Incorporate Keyless Copy of Encrypted Data (06-462r8) into SSC-3

Closed - SSC-3r03d

4.14 [Paul Entzel] Revise and post Fix conflict between 06-412r3 and 07-016r2 (07-204r0)

Closed

4.15 [Dave Peterson] Incorporate Fix conflict between 06-412r3 and 07-016r2 (07-204r1) into SSC-3

Closed - SSC-3r03d

5. Old business**5.1 General items****5.1.1 Vendor Feedback (05-351r1) [Group]**

Dave commented that he did start to revise this but is hoping to wrap up the old business items then update to get out to vendors.

5.1.2 Configurable EW (07-218r2) [Butt]

Ray brought up a concern about the device driver not knowing how to handle this new Check Condition. Discussion followed where one discussion was to make it look like a traditional EW Check Condition. The group discussed how this would not act like that after the first CC. Subsequent write commands will complete with good status until it reaches traditional EW. Returning a CC on each command would adversely effect performance and undesirable.

Ralph suggested perhaps using the EOM bit and a reserved bit next ot EOM and use NO SENSE sense key and the specific additional sense code. The EOM bit set to one was added.

Kevin Butt made a motion to approve Configurable EW (07-218r2) as revised for inclusion into SSC-3. Paul Entzel seconded the motion. The motion passed on a 6:0:5 vote.

[Kevin Butt] Post Configurable EW (07-218r2) and post as 07-218r3

[David Peterson] Include 07-218r3 in SSC-3.

<<<**Remove from Agenda**>>>

5.1.3 Cleaning Model (07-219r0) [Butt]

Goal is to create a model that vendors are willing to go to. Not match all existing implementations because that is probably not possible.

Edits were made.

[Kevin Butt] Revise Cleaning Model (07-219r0) and post as 07-219r1

5.1.4 TapeAlert Delineation (06-138r4) [Butt]

Kevin made edits suggested by the group and agreed to revise.

[Kevin Butt] Revise TapeAlert Delineation (06-138r4) and post

5.1.5 Requested Recovery log page (07-046r1) [Banther]

Michael reviewed this with the group and made edits.

[Michael Banther] Revise Requested Recovery log page (07-046r1) and post as 07-046r2

5.2 Security-related items

6. New Business

6.1 General items

6.2 Security-related items

6.2.1 Set Data Encryption Parameters through an SA (07-254r0) [Avida]

Gideon believes that 06-225r7 is insufficient and that the metadata needs encrypted as well as the key. This proposal attempts to replace that approved proposal.

Kevin Butt asked what the definition of “associated” is. NIST SP800-57 was referenced to describe association protection.

Paul Entzel stated that this is only a partial solution for FIPS 140-2 compliance. Also, Matt’s proposal was to disassociate a key with the Set data encryption page.

The two proposals are different.

Gideon made several edits.

Ralph asked why Gideon is only encapsulating the Set Data Encryption page instead of any page that may be added as well. Gideon agreed that this would be wise.

During these modifications Gideon replaced his page to contain an ESP-SCSI out descriptor (from 07-169) that may contain any tape data encryption protocol page.

The additional sense code name was changed.

Gideon made a motion to include Set Data Encryption Parameters through an SA (07-254r0) as modified into SSC-3. Paul Suhler seconded the motion. HP asked if the motion could be tabled for a cycle. Gideon did not want to. The motion passed on a 10:0:2 vote.

[Gideon Avida] Revise Set Data Encryption Parameters through an SA (07-254r0) and post as 07-254r1

[David Peterson] Incorporate 07-254r1.

Gideon made a motion to remove the additions to SSC-3 added by 06-225r7. Landon seconded the motion. The vote failed on a 2:7:3 vote.

Paul Suhler asked if we should also remove 06-389r5. Gideon explained why this meets the NIST requirements.

<<<**Remove from Agenda**>>>

6.2.2 Protecting a partially encrypted volume (07-290r0) [Butt]

Kevin presented this this and took feedback. He will revise and post.

[Kevin Butt] Revise Protecting a partially encrypted volume (07-290r0) and post as 07-290r1

7. Liason reports

7.1 P1619.1 Status report (07-xxxr0) [Ball]

8. Project Status

8.1 Next Meeting Requirements (Colorado Springs, CO)

Six to eight hours.

8.2 Last Technical Input - September 2007

8.3 Target date for letter ballot - November 2007

9. Review of new action items

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

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

9.3 Roger Cummings: produce a proposal to describe the events that shall activate and deactivate the cleaning related tape alert flags and to add a second flag for predictive failure of the medium.

9.4 Micheal Banther: Create a proposal to add additional activation conditions to TapeAlert. See note in 05-154r3 to bring in new proposal for this additional info.

Action Items Generated in this meeting

9.5 [Kevin Butt] Revise Configurable EW (07-218r2) and post as 07-218r3

9.6 [David Peterson] Include 07-218r3 in SSC-3.

9.7 [Gideon Avida] Revise Set Data Encryption Parameters through an SA (07-254r0) and post as 07-254r1

9.8 [David Peterson] Incorporate 07-254r1 into SSC-3.

9.9 [Kevin Butt] Revise Protecting a partially encrypted volume (07-290r0) and post as 07-290r1

9.10 [Kevin Butt] Revise Cleaning Model (07-219r0) and post as 07-219r1

9.11 [Michael Banther] Revise Requested Recovery log page (07-046r1) and post as 07-046r2

9.12 [Kevin Butt] Revise TapeAlert Delineation (06-138r4) and post

10. Adjournment

Dave Peterson made a motion for adjournment at 6:00 pm MDT. Seconded by Kevin Butt.