08-279r0

SSC-3 LB Comment SYM-019 Suggested Response

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SYM-019 Reprise

- Section 4.2.21.5 should identify:

  - a) How an application client determines that a Logical Unit has the capability to act as a KCSLU or a KCDLU;

  - b) How an application client enables or disables this capability.

- Action Items 9.1.2 & 9.1.3 in the May SSC-3 WG minutes relate to this item

SYM-019a Status

- Kevin Butt proposed in a reflector message on 6/19 that this comment be modified in terms of support for RAW or EXTERNAL modes, and that the text should state that a Check Condition is returned if they are not supported

- I proposed on 6/23 that a statement be included that "if one of RAW & EXTERNAL is supported, then the other SHALL be supported"

- No objections have been made to either suggestion

Putting the KAD out

- Also in the 6/23 e-mail I raised two questions:
  - Do source and destination drive have to support the encryption algorithm used to create the original tape ONLY if the KAD has to be compared?
  - Do we need to separately cover the cases where either the KCSLU & KCDLU do NOT support that algorithm?
- I'm still not sure of the answer to the first question especially in the case where the tape format uses no KAD
- But the general effect is that the ability for a drive to act as a KCSLU or a KCDLU is dependent on the characteristics of the drive in both cases, and also on the media mounted in the KCSLU case
- (Also there's no definition for Key Associated Data – perhaps there should be one in 3.1)

Proposals

1. State "that if one of RAW & EXTERNAL is supported, then the other SHALL be supported"

2. Rename the RDMC_C field in the Data Encryption Algorithm descriptor (Table 124) in light of the above.

3. Redefine the values and descriptions in Table 129 to cover both RAW & EXTERNAL

4. Define Byte 4 Bit 4 of the Data Encryption Capabilities page (Table 121) as REXRC which is set to 1 if RAW & EXTERNAL are supported for any algorithm

- We should also review the RDMD bit & CEEMS field in the Data Encryption Status page (Table 132) to see if changes are necessary

SYM-019b Status

- Symantec has multiple products each with different approaches to keyless copy.

- We would be willing to withdraw the request for an KC enable/disable as per SYM-019b if the following note was included in 4.2.21.5

  – "NOTE N It is expected that the ability to perform keyless copying will be a function of special a firmware load, and that it will not be available in general production devices. Some applications may choose to not mount tapes on drives that support keyless copying."

- Some of our applications would then check for RAW & EXTERNAL support as previously, and would not utilize drives that supported that feature

  – Other applications may make this determination on a site-by-site basis

Question

- Section 4.2.21.5 makes no mention of positioning. Should it be mentioned? Can a change to RAW or EXTERNAL only be made at BOx in some technologies?

Thank You!

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