T10/08-097r0

Voting Results on T10 Letter Ballot 08-096r0 on
Forwarding SSC-3 to First Public Review
Ballot closed: 2008/03/03 12:00 noon MST

Organization	Name	S	Vote	Add'l Info
AMCC	Paul von Stamwitz	P	Yes	
Amphenol Interconnect	Gregory McSorley	P	Yes	
ATL Technology	Brad Brown	P	Yes	
Brocade	David Peterson	P	No	Cmnts
Dell, Inc.	Kevin Marks	P	Yes	
EMC Corp.	David Black	A	Yes	Cmnts
Emulex	Robert H. Nixon	A	Yes	Cmnts
ENDL	Ralph O. Weber	P	Yes	
FCI	Douglas Wagner	P	Yes	
Finisar Corp.	Chris Cicchetti	A	Yes	
Foxconn Electronics	Elwood Parsons	P	Abs	Cmnts
Fujitsu	Mike Fitzpatrick	P	Yes	
General Dynamics	Nathan Hastad	P	Yes	
Hewlett Packard Co.	Curtis Ballard	A	No	Cmnts
Hitachi Global Storage Tech.	Dan Colegrove	P	Yes	
IBM Corp.	Kevin Butt	P	No	Cmnts
Intel Corp.	Mark Seidel	P	Yes	
Iomega Corp.	Robert Payne	P	Yes	
Kawasaki Microelectronics Am	Joel Silverman	P	Yes	
KnowledgeTek, Inc.	Dennis Moore	P	Yes	
Lexar Media, Inc.	John Geldman	P	Abs	Cmnts
LSI Corp.	John Lohmeyer	P	Yes	
Marvell Semiconductor, Inc.	David Geddes	P	Yes	
Maxim Integrated Products	Gregory Tabor	P	Abs	Cmnts
Microsoft Corp.	Robert Griswold	A	Yes	
Molex Inc.	Jay Neer	P	Yes	
NeoScale Systems Inc.			DNV	
Network Appliance	Frederick Knight	P	Yes	
Nvidia Corp.	Mark Overby	P	Abs	Cmnts
PMC-Sierra	Tim Symons	P	Yes	
Quantum Corp.	Paul Suhler	P	No	Cmnts
Samsung	Michael Rogers	A	Abs	Cmnts
SanDisk Corporation	Avraham Shimor	P	Yes	
Seagate Technology	Gerald Houlder	P	Abs	Cmnts
STMicroelectronics, Inc.	Stephen Finch	P	Yes	
Sun Microsystems, Inc.	Erich Oetting	P	Yes	
Symantec	Roger Cummings	P	No	Cmnts
TycoElectronics	Dan Gorenc	A	Abs	Cmnts
Western Digital	Mark Evans	P	Yes	

Ballot totals: (26:5:7:1=39)
 26 Yes
  5 No
  7 Abstain
  1 Organization(s) did not vote
 39 Total voting organizations
 14 Ballot(s) included comments

This 2/3rds majority ballot passed.
26 Yes are more than half the membership eligible to vote
  [greater than 19] AND
26 Yes are at least 21 (2/3rds of those voting YES or NO [31]).

Key:
P   Voter is principal member
A   Voter is alternate member
Abs   Abstain vote
DNV   Organization did not vote
Cmnts   Comments were included with ballot
NoCmnts   No comments were included with a vote that requires comments

[This report prepared by LB2 v2.3.]
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Comments attached to No ballot from David Peterson of
Brocade:

Brocade-001 T 56 4.2.21.6 Resolve editors note. This editors note applies
to
the whole standard. see note
Brocade-002 T 60 4.2.21.11 Resolve editors note. This editors note applies
to
the whole standard. see note
Brocade-003 T 67 4.2.23.3 Resolve editors note. This editors note applies
to
the whole standard. see note
Brocade-004 T 195 8.5.3.2.1 Resolve editors note. see note

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Comments attached to Yes ballot from David Black of
EMC Corp.:

From the spec it looks like if the SDK_C bit is set then the device supports
supplemental decryption keys but the only way to determine how many is by
setting the SDK's until you get a MAXIMUM NUMBER OF SUPPLEMENTAL DECRYPTION
KEYS EXCEEDED error (Set Data Encryption Page for SECURITY PROTOCOL OUT -
8.5.3.2.1, p.192). It would be nice if SECURITY PROTOCOL IN could provide
that
info before the error occurs, perhaps in the Data Encryption Algorithm
descriptor.

****

Comments attached to Yes ballot from Robert H. Nixon of
Emulex:

ELX-001 (e) Page: 2 Location:

Problem Description:
The list of Physical Interconnects is significantly out-of-date concerning Fibre Channel

Suggested Solution:
The list of Physical Interconnects should includethe following:

Fibre Channel Arbitrated Loop 2nd Generation FC-AL-2 [ANSI INCITS 332-1999 R2004]

Fibre Channel Arbitrated Loop 2nd Generation Amendment 1 FC-AL-2 AM [ISO/IEC 14165-122:2005]1[ANSI INCITS 332:1999 AM1-2003]

Fibre Channel Arbitrated Loop 2nd Generation Amendment 2 FC-AL-2 AM2 [ISO/IEC 14165-122:2005 AM1] [ANSI INCITS 332:1999 AM2-2006]

Fibre Channel Framing and Signaling Interface FC-FS [ISO/IEC 14165-251:2008] [ANSI INCITS 373 - 2003]

Fibre Channel Framing and Signaling Interface 2nd Generation FC-FS-2 [ANSI INCITS 424 - 2007]

Fibre Channel Framing and Signaling Interface 3rd Generation FC-FS-3 [T11/1861-D]

ELX-002 (e) Page: 2 Location:

Problem Description:
The list of Transport Protocols does not have current publication numbers for FCP-2 and FCP-3

Suggested Solution:
The list of Transport Protocols should be amended to show these:

SCSI-3 Fibre Channel Protocol - 2 FCP-2 [ISO/IEC 14776-222] [ANSI INCITS 350 - 2003 R2008]

SCSI-3 Fibre Channel Protocol - 3 FCP-3 [ISO/IEC 14776-223] [ANSI INCITS 416-2006]

****

Comments attached to Abs ballot from Elwood Parsons of Foxconn Electronics:

Lack of expertise

****

Comments attached to No ballot from Curtis Ballard of Hewlett Packard Co.:

Comment Number: HPQ-1

Page Number: 1
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: Title Page
Comment=
"At 2.32 in. down and 0.77 in. from left

Set PDF page numbers to match printed
page numbers"

Comment Number: HPQ-2
Page Number: 1
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: Title Page
Comment=
"At 9.87 in. down and 6.32 in. from left

Global

ANSI INCITS.***:200x
s/b
ANSI INCITS xxx-200x

(space and dash instead of periods)"

Comment Number: HPQ-3
Page Number: 2
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: Points of Contact page
Comment=
"At 1.92 in. down and 3.95 in. from left

George O. Penokie
s/b
Mark S. Evans
with appropriate contact info"

Comment Number: HPQ-4
Page Number: 3
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: Changes
Comment=
"At 1.14 in. down and 0.95 in. from left

Global

Header and footer should use same font
as rest of text."

```
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Comment Number: HPQ-5
Page Number: 3
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: Changes
Comment=
"At 1.61 in. down and 0.42 in. from left

Global: use 0.9"" margin on left and
right"

-------
Comment Number: HPQ-6
Page Number: 6
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: Abstract
Comment=
"At 6.12 in. down and 7.26 in. from left

StrikeOut:
stream"

-------
Comment Number: HPQ-7
Page Number: 6
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: Abstract
Comment=
"At 6.29 in. down and 4.77 in. from left

StrikeOut:
stream"

-------
Comment Number: HPQ-8
Page Number: 13
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: LIst of Tables
Comment=
"At 1.72 in. down and 0.61 in. from left

Add PDF bookmarks for Tables and
Figures"

-------
Comment Number: HPQ-9
Page Number: 13
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: LIst of Tables
Comment=
```

"At 9.42 in. down and 0.50 in. from left

many field names should be small caps
in the table of tables, including:
40, 43, 92, 100, 101, 107, 109, 110,
112, 129, 133, "

Comment Number: HPQ-10
Page Number: 18
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: Foreword
Comment=
"At 2.50 in. down and 0.69 in. from left

DEVICE TYPE field of the INQUIRY
command response data.
s/b
PERIPHERAL DEVICE TYPE field of the
Standard INQUIRY data (see SPC-4)."

Comment Number: HPQ-11
Page Number: 18
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: Foreword
Comment=
"At 2.51 in. down and 4.34 in. from left

StrikeOut:
This device type is known as a stream
device."

Comment Number: HPQ-12
Page Number: 18
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: Foreword
Comment=
"At 2.67 in. down and 2.02 in. from left

SCSI Architecture Model - 3
(T10/1561-D)
s/b
SAM-4"

Comment Number: HPQ-13
Page Number: 18
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: Foreword

Comment=
"At 8.67 in. down and 1.23 in. from left

Technical Committee T10 on Lower Level
Interfaces
s/b
Technical Committee T10 - SCSI Storage
Interfaces"

Comment Number: HPQ-14
Page Number: 19
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: Introduction
Comment=
"At 2.73 in. down and 3.35 in. from left

definitions, symbols, and abbreviations
s/b
definitions, acronyms, keywords, and
conventions"

Comment Number: HPQ-15
Page Number: 20
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 1 Scope
Comment=
"At 3.43 in. down and 0.44 in. from left

StrikeOut:
member of the SCSI stream device class"

Comment Number: HPQ-16
Page Number: 20
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 1 Scope
Comment=
"At 3.59 in. down and 1.56 in. from left

the SCSI Primary Commands - 3 standard
s/b
SPC-4"

Comment Number: HPQ-17
Page Number: 20
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 1 Scope
Comment=

"At 3.76 in. down and 2.33 in. from left

StrikeOut:
member of the SCSI stream device class"

Comment Number: HPQ-18
Page Number: 20
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 1 Scope
Comment=
"At 4.59 in. down and 4.59 in. from left

device type
s/b
smallcaps"

Comment Number: HPQ-19
Page Number: 20
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 1 Scope
Comment=
"At 4.75 in. down and 0.95 in. from left

the INQUIRY command response data
s/b
the standard INQUIRY data (see SPC-3)"

Comment Number: HPQ-20
Page Number: 21
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 1 Scope
Comment=
"At 1.65 in. down and 0.95 in. from left

StrikeOut:
Delete this list:

At the time this standard was
generated, examples of the SCSI general
structure included: ..."

Comment Number: HPQ-21
Page Number: 23
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 2.2
Comment=
"At 2.04 in. down and 0.95 in. from left

StrikeOut:
ISO/IEC 14776-411, SCSI-3 Architecture
Model standard"

Comment Number: HPQ-22
Page Number: 23
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 2.2
Comment=
"At 2.20 in. down and 0.95 in. from left

StrikeOut:
ISO/IEC 14776-313, SCSI Primary
Commands - 3 standard"

Comment Number: HPQ-23
Page Number: 23
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 2.2
Comment=
"At 2.26 in. down and 0.43 in. from left

Add SPC-2 since the ONLY IF RESERVED
(OIR) bit definition refers to it"

Comment Number: HPQ-24
Page Number: 23
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 2.2
Comment=
"At 2.61 in. down and 0.50 in. from left

Add:
ISO/IEC 18033-2

used in pg 219"

Comment Number: HPQ-25
Page Number: 23
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 2.3
Comment=
"At 4.14 in. down and 0.95 in. from left

ISO/IEC 14776-xxx
the xxx numbers are known:

SAM-4 is 414
SPC-4 is 454"

Comment Number: HPQ-26
Page Number: 23
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 2.3
Comment=
"At 4.14 in. down and 3.36 in. from left

Model - 4
s/b
Model - 4 (SAM-4)"

Comment Number: HPQ-27
Page Number: 23
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 2.3
Comment=
"At 4.31 in. down and 3.10 in. from left

Commands - 4
s/b
Commands - 4 (SPC-4)"

Comment Number: HPQ-28
Page Number: 23
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 2.4
Comment=
"At 6.02 in. down and 0.71 in. from left

Add:
NIST SP800-56A

which is used in:
Table 152 - ECIES-HC requirements and
parameters for ECIES-KEM"

Comment Number: HPQ-29
Page Number: 23
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 2.4
Comment=
"At 6.35 in. down and 0.70 in. from left

Add:

FIPS 140-2
FIPS 856-2

which are referred to in
8.5.3.2.4.3 Key wrapping with ECC 521"

Comment Number: HPQ-30
Page Number: 24
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 3.1.4
Comment=
"At 3.77 in. down and 0.44 in. from left

StrikeOut:
3.1.4 BOx:
Either beginning-of-medium (see 3.1.5)
or beginning-of-partition (see 3.1.6)."

Comment Number: HPQ-31
Page Number: 24
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 3.1.5
Comment=
"At 4.25 in. down and 5.45 in. from left

beginning-of-partition
s/b
BOP (see 3.1.6)"

Comment Number: HPQ-32
Page Number: 24
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 3.1.6
Comment=
"At 4.75 in. down and 3.32 in. from left

beginning-of-medium
s/b
BOM (see 3.1.5)"

Comment Number: HPQ-33
Page Number: 24
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 3.1
Comment=
"At 5.07 in. down and 0.18 in. from left

Global:
use the BOM, BOP, EOM, EOP, and EW
acronyms almost everywhere. Only spell
them out the first time they are used
in the text."

Comment Number: HPQ-34
Page Number: 25
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 3.1.18
Comment=
"At 1.81 in. down and 1.22 in. from left

end-of-partition
s/b
EOP (see 3.1.20)"

Comment Number: HPQ-35
Page Number: 25
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 3.1.19
Comment=
"At 2.31 in. down and 5.39 in. from left

a
s/b
an"

Comment Number: HPQ-36
Page Number: 27
PDF Comment Subtype:
PDF Comment Type:
Locator: 3.1.72
Comment=
It would be helpful if references such
as the (see 4.2.10) in this definition
could be linked to the referenced
section so you can follow them in the
PDF with a click.

Change Suggestion=

Comment Number: HPQ-37
Page Number: 28
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 3.1.85

Comment=
"At 8.38 in. down and 4.85 in. from left

In 3.1.85 volume, add ""See 4.2.2."""

Comment Number: HPQ-38
Page Number: 28
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 3.1.85
Comment=
"At 8.39 in. down and 0.26 in. from left

SPC-4 refers to SSC for its definition
of ""volume"". One reference is:
""The VOLUME NUMBER field specifies a
volume (see SSC-2) within the medium
auxiliary memory. The number of volumes
of the medium auxiliary memory shall
equal that of the attached medium. If
the medium only has a single volume,
then its volume number shall be zero.""

This doesn't seem to match the SSC
definition. Either SPC-4 or SSC-3
should change."

Comment Number: HPQ-39
Page Number: 28
PDF Comment Subtype:
PDF Comment Type:
Locator: 3.2
Comment=
It would be helpful if locations in the
document that use these acronyms could
be linked to their definition in this
table so that the reader can select the
acryonym in the text to get to the
definition quickly.

Change Suggestion=

Comment Number: HPQ-40
Page Number: 29
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 3.2
Comment=
"At 2.41 in. down and 4.82 in. from left

After each acronym that is a term
defined in 3.1.xx, add (see 3.1.xx)

BOM
BOP
EOD
EOM
EOP
EW"

Comment Number: HPQ-41
Page Number: 29
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 3.2
Comment=
"At 5.81 in. down and 0.35 in. from left

Add
PEWZ programmable early warning zone"

Comment Number: HPQ-42
Page Number: 29
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 3.2
Comment=
"At 6.41 in. down and 0.34 in. from left

Global: change SAM-3 to SAM-4"

Comment Number: HPQ-43
Page Number: 29
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 3.2
Comment=
"At 6.48 in. down and 0.95 in. from left

StrikeOut:
SBCSCSI-3 Block Commands"

Comment Number: HPQ-44
Page Number: 29
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 3.2
Comment=
"At 6.98 in. down and 0.95 in. from left

StrikeOut:

SCSI-3Small Computer System Interface -
3"

Comment Number: HPQ-45
Page Number: 31
PDF Comment Subtype:
PDF Comment Type:
Locator: 3.4 Table 1
Comment=
"I think the American example for ""1
323 462.95"" should be ""1,323,462.95"""

Change Suggestion=

Comment Number: HPQ-46
Page Number: 33
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 4.1
Comment=
"At 2.95 in. down and 0.95 in. from left

StrikeOut:
The SCSI stream device class specifies
the behavior of a logical unit that is
primarily a streaming data device. Two
device types are members of this class:
sequential-access and printer devices.
This standard addresses the
sequential-access device type only."

Comment Number: HPQ-47
Page Number: 33
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 4.1
Comment=
"At 3.45 in. down and 0.95 in. from left

StrikeOut:
(see SBC-2 for a description of a
random-access device)."

Comment Number: HPQ-48
Page Number: 33
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2
Comment=

"At 7.35 in. down and 0.69 in. from left

Add a section 4.2.x Removable media

Include these points:
- the RMB bit is set to one in Standard
INQUIRY data (see SPC-4)
- a unit attention condition is
established whenever the media changes
(e.g. with an additional sense code set
to NOT READY TO READY CHANGE, MEDIUM
MAY HAVE CHANGED)
- the LOAD UNLOAD command (see 7.2) is
used to add or remove the medium"

Comment Number: HPQ-49
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 1.81 in. down and 0.45 in. from left

Beginning-of-medium
s/b
BOM"

Comment Number: HPQ-50
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 1.81 in. down and 5.70 in. from left

End-of-medium
s/b
EOM"

Comment Number: HPQ-51
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 2.98 in. down and 0.45 in. from left

Mounted is the state of a volume when
s/b
A volume is defined as mounted when"

Comment Number: HPQ-52
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 3.14 in. down and 2.47 in. from left

is demounted
s/b
is defined as demounted"

Comment Number: HPQ-53
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 3.64 in. down and 0.45 in. from left

Ready is the state of the logical unit
s/b
A logical unit is defined as ready"

Comment Number: HPQ-54
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 3.81 in. down and 0.45 in. from left

The logical unit is not ready
s/b
A logical unit is defined as not ready"

Comment Number: HPQ-55
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 4.14 in. down and 3.56 in. from left

not mounted
s/b
demounted"

Comment Number: HPQ-56
Page Number: 34
PDF Comment Subtype: Highlight

PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 4.14 in. down and 4.58 in. from left

not mounted
s/b
demounted"

Comment Number: HPQ-57
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 4.81 in. down and 4.93 in. from left

beginning-of-medium
s/b
BOM"

Comment Number: HPQ-58
Page Number: 34
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 4.98 in. down and 0.45 in. from left

end-of-medium position
s/b
EOM"

Comment Number: HPQ-59
Page Number: 35
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 4.57 in. down and 0.95 in. from left

beginning-of-medium
s/b
BOM"

Comment Number: HPQ-60
Page Number: 35
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=

"At 4.57 in. down and 2.82 in. from left

end-of-medium
s/b
EOM"

Comment Number: HPQ-61
Page Number: 35
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.2
Comment=
"First paragraph last sentence is
difficult to understand. There is a
phrase ""course of tracks"" which is not
used anywhere else."

Change Suggestion=

"Recommend: ""The number of tracks
written at one time is called a track
group (TrkGrp). --The tape motion while
writting a TrkGrp is called the course
of tracks.--- Track groups may be used
by any recording format. For recorded
volumes, reading in the forward
direction follows the same course of
tracks --that was used--when writing."

Comment Number: HPQ-62
Page Number: 35
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 5.24 in. down and 6.66 in. from left

end-of-medium
s/b
EOM"

Comment Number: HPQ-63
Page Number: 35
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.2
Comment=
"At 5.40 in. down and 0.95 in. from left

beginning-of-medium
s/b

BOM"

Comment Number: HPQ-64
Page Number: 36
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.3
Comment=
"Pysical device introductory paragraph:
""A physical device performs operations
upon the medium"" -- this wording
implies that the physical device only
performs operations but the physical
device also contains modifiable settings
that are shared between multiple device
servers."

Change Suggestion=
"Recommend: ""TA sequential-access
device contains one or more physical
devices. A physical device provides
storage for values that are shared
between multiple device servers and
performs operations upon the medium"""

Comment Number: HPQ-65
Page Number: 37
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.3 figure 8
Comment=
"Both top boxes

Device Serve
s/b
Device Server"

Comment Number: HPQ-66
Page Number: 37
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.3 figure 8
Comment=
"Under the top right box for the ADC
device server

The ADC device server is optional for
SSC devices so the relationship should
be 1 to 0..1 instead of 1 to 1."

Comment Number: HPQ-67
Page Number: 37
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.3
Comment=
"At 4.52 in. down and 2.95 in. from left

Physical Devic
s/b
Physical Device"

Comment Number: HPQ-68
Page Number: 38
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.3 figure 8
Comment=
"At 1.64 in. down and 4.43 in. from left

in figure 8..

delete extra ."

Comment Number: HPQ-69
Page Number: 38
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.3 Table 2
Comment=
"At 7.60 in. down and 6.23 in. from left

After ""table 10"" add ""in 4.2.17.1 """

Comment Number: HPQ-70
Page Number: 39
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.5
Comment=
"First paragraph in the section - "". .
. enough space in the partition for the
application client to write any buffered
logical object in the application client
buffer to the medium."" - What is the
application client buffer? Is that
different from the object buffer? If so
then a definition is needed."

Change Suggestion=

```
-------
Comment Number: HPQ-71
Page Number: 40
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.6
Comment=
"At 4.48 in. down and 5.63 in. from left

beginning-of-medium
s/b
BOM"

-------
Comment Number: HPQ-72
Page Number: 40
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.6
Comment=
"At 4.64 in. down and 0.45 in. from left

end-of-partition zero (EOP 0)
s/b
EOP 0"

-------
Comment Number: HPQ-73
Page Number: 40
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.6
Comment=
"At 4.64 in. down and 3.92 in. from left

end-of-medium
s/b
EOM"

-------
Comment Number: HPQ-74
Page Number: 40
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.6
Comment=
"At 4.81 in. down and 4.67 in. from left

beginning-of-partition
s/b
BOP"

-------
Comment Number: HPQ-75
```

Page Number: 40
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.6
Comment=
"At 5.31 in. down and 5.28 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-76
Page Number: 41
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.6
Comment=
"At 4.32 in. down and 0.95 in. from left

beginning and ending points for a
partition aligned with physical bounds
of the medium
s/b
BOP and EOP aligned with BOM and EOM."

Comment Number: HPQ-77
Page Number: 41
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.6
Comment=
"At 4.32 in. down and 2.20 in. from left

a mandatory requirement
s/b
required"

Comment Number: HPQ-78
Page Number: 44
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.11
Comment=
"At 5.98 in. down and 3.80 in. from left

end-of-partition
s/b
EOP"

Comment Number: HPQ-79
Page Number: 45

PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.12.2
Comment=
"At 1.98 in. down and 2.15 in. from left

streams
s/b
stream

(to match the term used in SPC-4)"

Comment Number: HPQ-80
Page Number: 45
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.12.3
Comment=
"At 6.93 in. down and 3.20 in. from left

generated
s/b
established"

Comment Number: HPQ-81
Page Number: 46
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.12.3 Table 4
Comment=
"At 4.73 in. down and 0.23 in. from left

The information sense data descriptor
needs to end with byte 11 not byte 10."

Comment Number: HPQ-82
Page Number: 46
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.12.4
Comment=
"At 6.59 in. down and 1.20 in. from left

following conditions
s/b
conditions listed in table 5"

Comment Number: HPQ-83
Page Number: 46
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight

Locator: 4.2.12.4
Comment=
"At 6.92 in. down and 0.45 in. from left

the device server shall return CHECK
CONDITION status. The appropriate sense
key and additional sense code should be
set.
s/b
the command shall be terminated with
CHECK CONDITION status with the sense
key set to the specified value and the
additional sense code set to the
appropriate value for the condition."

Comment Number: HPQ-84
Page Number: 46
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.12.4
Comment=
"At 6.92 in. down and 3.53 in. from left

illustrates
s/b
lists"

Comment Number: HPQ-85
Page Number: 46
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.12.4
Comment=
"At 7.09 in. down and 2.26 in. from left

exhaustive enumeration
s/b
complete list"

Comment Number: HPQ-86
Page Number: 46
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.12.4 Table 5
Comment=
"At 7.99 in. down and 0.53 in. from left

Keep table 5 on one page"

Comment Number: HPQ-87
Page Number: 48

PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 4.2.13.1
Comment=
"At 5.15 in. down and 4.72 in. from left

StrikeOut:
MODE SELECT command with the"

Comment Number: HPQ-88
Page Number: 48
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.13.2
Comment=
List of other conditions that may cause
a DATA PROTECT sense key should add
encryption errors

Change Suggestion=
"May add a new item d) for ""the set of
data encryption parameters in the
physical device is not correct for the
operation requested."""

Comment Number: HPQ-89
Page Number: 49
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.13.6
Comment=
"Third sentence - ""The state of
permanent write protection shall be
recorded with the volume and the
persistent write protection shall only
affect the application client accessible
medium."""

Change Suggestion=
"The word ""persistent"" 2/3 through the
sentence should be ""permanent"""

Comment Number: HPQ-90
Page Number: 50
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.14 Note 1
Comment=
"At 7.54 in. down and 0.29 in. from left

(Global)
Add a - after the NOTE numbers"

Comment Number: HPQ-91
Page Number: 51
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.15.2 item e)
Comment=
"At 4.93 in. down and 1.45 in. from left

an
s/b
the"

Comment Number: HPQ-92
Page Number: 51
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 4.2.15.2
Comment=
"At 4.94 in. down and 7.95 in. from left

StrikeOut:
"

Comment Number: HPQ-93
Page Number: 51
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.15.2 item f)
Comment=
"At 5.27 in. down and 1.45 in. from left

an
s/b
the"

Comment Number: HPQ-94
Page Number: 52
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.16.2
Comment=
"When a reference is given such as the
(see 4.2.10) in the middle paragraph in
this section, it would be good to
actually have a definition of the term
in the referenced section rather than
requiring following another reference to
section 3.1.72 from 4.2.10 to find the

definition."

Change Suggestion=

Comment Number: HPQ-95
Page Number: 61
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.17.1 Table 9
Comment=
"At 7.90 in. down and 0.83 in. from left

(Global)
In tables with more than 3 columns with
rows labeled Reserved or Obsolete, join
the rightmost columns together. This
avoids leaving a blank cell or putting
a ""-"" in the cell.

Table 19h's last row would be:
All others | Reserved"

Comment Number: HPQ-96
Page Number: 62
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.17.1 Table 10
Comment=
"At 2.79 in. down and 4.07 in. from left

Table 10 needs a footnote describing
the abbreviations for the severity
column."

Comment Number: HPQ-97
Page Number: 62
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.17.1 Table 10
Comment=
"At 9.97 in. down and 6.46 in. from left

Straddle cells in the footing"

Comment Number: HPQ-98
Page Number: 66
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.17.2.4 item d)

Comment=
"At 2.48 in. down and 2.14 in. from left

etc
s/b
smallcaps"

Comment Number: HPQ-99
Page Number: 66
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.17.2.4
Comment=
"At 3.43 in. down and 5.30 in. from left

unit attention
s/b
unit attention condition"

Comment Number: HPQ-100
Page Number: 66
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.17.2.4
Comment=
"At 4.43 in. down and 4.92 in. from left

generates
s/b
establishes"

Comment Number: HPQ-101
Page Number: 67
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.17.4
Comment=
"At 8.33 in. down and 0.38 in. from left

The last paragraph of 4.2.17.4 should
be b)"

Comment Number: HPQ-102
Page Number: 69
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.19 Note 10
Comment=
"At 5.07 in. down and 3.09 in. from left

streaming device types

s/b
the sequential-access device type"

Comment Number: HPQ-103
Page Number: 70
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 4.2.20.1
Comment=
"At 9.36 in. down and 5.05 in. from left

StrikeOut:
s at end of sentence (devices server)"

Comment Number: HPQ-104
Page Number: 70
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.20.2
Comment=
"At 10.02 in. down and 0.45 in. from left

What exactly is an archive tape?
Should there be a definition in 3.1?"

Comment Number: HPQ-105
Page Number: 71
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.20.3
Comment=
"At 3.81 in. down and 5.14 in. from left

Third paragraph first sentence
if THE medium ?"

HPQ-106
Page Number: numerous
PDF Comment Subtype:
PSF Comment Type:
Locator: "4.2.21.n, 8.5.n"
Comment=
"4.2.2.2 sentence 2 defines encryption
control as being on an I_T_L nexus
basis, but most references after this
use I_T nexus" Change references to
I_T_L Nexus for Encryption control as
already marked in red in 4a draft.

Comment Number: HPQ-107

Page Number: 71
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.1
Comment=
"Most encryption processing has been moved from the device server to the physical device but not all references to capabilities in the device server were updated. Several comments to follow will point out areas where device server should be changed to physical device. Those comments will all start with ""Device Server -> Physical Device"" to help identify them as all part of the same change.

First paragraph second to last sentence - ""encryption and decryption processes within the device server"" - those processes were moved to the physical device" "Change ""device server"" to ""physical device"""

Comment Number: HPQ-108
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Second paragraph - ""A device server that supports encryption should be capable of distinguishing encrypted . . ."" Detection of blocks will occur in the physical device not the device server."

Change Suggestion=
"Change ""device server"" to ""physical device"""

Comment Number: HPQ-109
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Second paragraph second sentence - ""The device server reports it's capability of

distinguishing encrypted blocks"" "

Change Suggestion=
"Should be ""The device server reports
that capability of the physical device
for distinguishing encrypted blocks"""

Comment Number: HPQ-110
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Second paragraph third sentence ""If the
device server is capable of
distinguishing"""

Change Suggestion=
"Should be ""If
the physical device is capable of
distinguishing"""

Comment Number: HPQ-111
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Second paragraph last sentence ""The
device server shall establish the
logical position"""

Change Suggestion=
"Should be ""The
physical device shall establish . . ."""

Comment Number: HPQ-112
Page Number: 72
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.3
Comment=
"At 6.78 in. down and 1.20 in. from left

Note 11 not sure this is correct; it may
attempt to decrypt data but it will not
actually manage it. Better to say
something like "".. to run the

decryption process on data that was not
encrypted"""

Comment Number: HPQ-113
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Note 11 ""It is possible for a device
server that is not capable of
distinguishing"""

Change Suggestion=
"Should be ""It is possible for a
physical device that is not . . ."""

Comment Number: HPQ-114
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Third paragraph first sentence ""A
device server that supports
encryption"""

Change Suggestion=
"Should be ""A physical device that
supports encryption"""

Comment Number: HPQ-115
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Third paragraph fourth sentence ""If the
device server is capable of determining
that the encryption key is correct"""

Change Suggestion=
"Should be ""If the physical device is
capable . . . """

Comment Number: HPQ-116
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Third paragraph last sentence ""The
device server shall establish the
logical position"""

Change Suggestion=
"Should be ""The physical device shall
establish . . ."""

Comment Number: HPQ-117
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Fourth paragraph first sentence ""A
device server that supports
encryption"""

Change Suggestion=
"Should be ""A physical device that
supports encryption"""

Comment Number: HPQ-118
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Fourth paragraph second sentence ""If
the device server is capable of
validating the integrity of the data"""

Change Suggestion=
"Should be ""If the physical device is
capable . . . """

Comment Number: HPQ-119
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:

Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Fourth paragraph last sentence ""The
device server shall establish the
logical position"""

Change Suggestion=
"Should be ""The physical device shall
establish . . ."""

Comment Number: HPQ-120
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Fifth paragraph first sentence ""A
device server that is capable of
distinguishing encrypted blocks"""

Change Suggestion=
"Should be ""A physical device that is
capable . . ."""

Comment Number: HPQ-121
Page Number: 72
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.3
Comment=
"Device Server -> Physical Device

Sixth paragraph first sentence ""A
device server that is capable of both
determining if the encryption key or"""

Change Suggestion=
"Should be ""A physical device that is
capable . . ."""

Comment Number: HPQ-122
Page Number: 73
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.4
Comment=
"At 5.64 in. down and 1.77 in. from left

SPECIFC
s/b
SPECIFIC"

Comment Number: HPQ-123
Page Number: 73
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.4
Comment=
"At 5.64 in. down and 5.20 in. from left

DECRYPT field or ENCRYPT field
s/b
DECRYPTION MODE field or ENCRYPTION
MODE field

using smallcaps"

Comment Number: HPQ-124
Page Number: 73
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.4
Comment=
"At 5.98 in. down and 4.35 in. from left

DECRYPTION

If this is reported because the ENCRYPT
field (should be ENCRYPTION MODE field)
is set incorrectly, this name does not
make sense. Add an additional sense
code with ENCRYPTION in the name or
delete the ENCRYPT field from the
discussion. "

Comment Number: HPQ-125
Page Number: 74
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 4.2.21.5
Comment=
"At 1.65 in. down and 6.34 in. from left

StrikeOut:
is"

Comment Number: HPQ-126
Page Number: 74
PDF Comment Subtype: Highlight

PDF Comment Type: Highlight
Locator: 4.2.21.5
Comment=
"At 2.48 in. down and 2.13 in. from left

ENCRYPTION MODE
s/b
small caps"

Comment Number: HPQ-127
Page Number: 74
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.5
Comment=
"At 4.14 in. down and 2.84 in. from left

ALGORITHM INDEX
s/b
smallcaps"

Comment Number: HPQ-128
Page Number: 74
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.5
Comment=
"Device Server -> Physical Device

Fourth paragraph on the page ""If the
encryption algorithm provides this
capability, the device server may
support a feature to check during read
and verify operations"""

Change Suggestion=
"Should be ""If the encryption algorithm
provides this capability, the physical
device may . . . """

Comment Number: HPQ-129
Page Number: 74
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.5
Comment=
"Device Server -> Physical Device

First lettered list on page - 1) ""the
device server shall verify that each
encrypted block that is processed for
read and verify. . . """

Change Suggestion=
"Should be ""the physical device shall verify . . ."""

Comment Number: HPQ-130
Page Number: 74
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.5
Comment=
"Device Server -> Physical Device

Second lettered list on page - 1) ""the device server shall verify that each encrypted block that is processed"""

Change Suggestion=
"Should be ""the physical device shall verify . . ."""

Comment Number: HPQ-131
Page Number: 74
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.5
Comment=
"Device Server -> Physical Device

Third lettered list on page - 1) ""the device server shall check the format specific indication that disables . . . """

Change Suggestion=
"Should be ""the physical device shall check . . ."""

Comment Number: HPQ-132
Page Number: 75
PDF Comment Subtype:
PDF Comment Type:
Locator: Editors Note 1

Comment=
"I don't see the ambiguity in ""data encryption parameter"" " Data encryption Parameters are already specified in 4.2.21.8.

Comment Number: HPQ-133

Page Number: 76
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.6
Comment=
"At 2.98 in. down and 0.95 in. from left

It would be clearer if the phrase
""registered for encryption unit
attentions state"" (and where else it's
referenced) was clearly
marked out as a variable. Not sure of
the right format - caps, bold, etc -
but it would make it easier to read."

Comment Number: HPQ-134
Page Number: 76
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.21.6
Comment=
"Paragraph following first a/b list last sentence

at the physical device shall"

Change Suggestion=
"Should be: ""and the physical device shall"""

Comment Number: HPQ-135
Page Number: 77
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.7 item c)
Comment=
"At 1.81 in. down and 1.98 in. from left

after
NEXUS
add a period"

Comment Number: HPQ-136
Page Number: 77
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.7
Comment=
"At 5.81 in. down and 1.19 in. from left

registered for encryption unit
attentions state

Consider creating an acronym for this

wordy name (REUA state?). Since it is
in lowercase, it is hard to read."

Comment Number: HPQ-137
Page Number: 77
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.21.7
Comment=
"At 5.98 in. down and 1.28 in. from left

generate
s/b
establish"

Comment Number: HPQ-138
Page Number: 79
PDF Comment Subtype:
PDF Comment Type:
Locator: Editors Note 2
Comment =
"""data"" replaced with ""logical
block""in numerous places"
Substitution seems reasonable. Leave as
substituted in 4a draft.

Comment Number: HPQ-139
Page Number: 80
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.22.2.1
Comment=
"Second paragraph first sentence ""data
encryption capabilities""" It would
be good to reference this to (see
4.2.21.9)

Comment Number: HPQ-140
Page Number: 80
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.22.2.1
Comment=
"At 6.31 in. down and 3.71 in. from left

nexus
s/b
nexuses"

Comment Number: HPQ-141

Page Number: 80
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.22.2.2
Comment=
"Next to last a/b list item b/B -
""report the encryption algorithm in the
Data Encryption Capabilities page with
the DISABLED bit set to one.."" - The
DISABLED bit has been removed"

Change Suggestion=
"Should be ""report the encryption
algorithm in the Data Encryption
Capabilities page with the DECRYPT_C
field set to No Capability and the
ENCRYPT_C field set to No Capability."""

Comment Number: HPQ-142
Page Number: 80
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.22.2.2
Comment=
"In the last paragraph on the page the
statement ""If external data encryption
control has been used to configure the
physical device to prevent device server
control of data encryption parameters""
does not clearly state what conditions
would cause this state."

Change Suggestion=
"Add an example at the end of the
sentence (e.g., the device contains a
device server that reports itself as an
ADC device and the data encryption
parameters control policy is set to a
policy type where control of encryption
algorithms by this device server is
prevented, see ADC-3)"

Comment Number: HPQ-143
Page Number: 81
PDF Comment Subtype:
PDF Comment Type:
Locator: 4.2.22.3.2
Comment=
"Last paragraph on the page ""If
external data encryption control is not
being used, then the data encryption
control policies shall be set to
defaults."" - Should use consistent

naming."

Change Suggestion=
"Should be "". . . then the data
encryption parameters request policies .
. ."""

Comment Number: HPQ-144
Page Number: 83
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.22.3.2 Table 16
Comment=
"At 3.28 in. down and 6.73 in. from left

encryptionparam
s/b
encryption param"

Comment Number: HPQ-145
Page Number: 83
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 4.2.22.3 Table 16
Comment=
"At 3.52 in. down and 0.55 in. from left

Should RECOVER BUFFERED DATA also be in
the list in table 16?"

Comment Number: HPQ-146
Page Number: 86
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 4.2.23.3
Comment=
"At 4.63 in. down and 4.99 in. from left

StrikeOut:
,"

Comment Number: HPQ-147
Page Number: 86
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 4.2.23.3
Comment=
"At 4.96 in. down and 2.84 in. from left

sent to it
s/b

that it receives"

Comment Number: HPQ-148
Page Number: 89
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 5.1 Table 21
Comment=
"At 4.27 in. down and 0.37 in. from left

SPC-4 lists
A5h MOVE MEDIUM

as being optional for this device type"

Comment Number: HPQ-149
Page Number: 89
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 5.1 Table 21
Comment=
"At 6.70 in. down and 0.54 in. from left

LOCATE(16) is listed as optional in
SPC-4"

Comment Number: HPQ-150
Page Number: 90
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 5.1 Table 21
Comment=
"At 3.55 in. down and 0.21 in. from left

SPC-4 lists commands like READ(16) and
WRITE (16) as mandatory for the SSC
device type.

However, they're really only mandatory
for explicit addressing; they're not
even supported for implicit addressing.

Similarly, VERIFY (16) is optional for
explicit addressing, but not allowed
for implicit addressing.

Perhaps a new letter should be used in
the SPC-4 table defined as
""Y see the command standard"""

Comment Number: HPQ-151

Page Number: 90
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 5.1 Table 21
Comment=
"At 5.64 in. down and 1.15 in. from left

ALIAS
s/b
ALIASES"

Comment Number: HPQ-152
Page Number: 90
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 5.1 Table 21
Comment=
"At 6.15 in. down and 1.15 in. from left

DEVICE IDENTIFIER
s/b
IDENTIFYING INFORMATION"

Comment Number: HPQ-153
Page Number: 90
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 5.1 Table 21
Comment=
"At 6.49 in. down and 0.21 in. from left

REPORT LUNS is supposed to be M not X.

The old rules along the lines of
""mandatory for LUN 0, optional for the
rest"" were eliminated by 02-260r1 per
minutes 02-273r0."

Comment Number: HPQ-154
Page Number: 90
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 5.1 Table 21
Comment=
"At 6.88 in. down and 0.20 in. from left

Add:
A3h/0Dh REPORT SUPPORTED TASK
MANAGEMENT FUNCTIONS
A3h/0Eh REPORT PRIORITY
A3h/0Fh REPORT TIMESTAMP
A3h/10h MANAGEMENT PROTOCOL IN"

```
-------
Comment Number: HPQ-155
Page Number: 90
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 5.1 Table 21
Comment=
"At 7.27 in. down and 0.26 in. from left

Add:
A4h/0Eh SET PRIORITY
A4h/0Fh SET TIMESTAMP
A4h/10h MANAGEMENT PROTOCOL OUT"

-------
Comment Number: HPQ-156
Page Number: 93
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 5.2 Table 23
Comment=
"At 4.08 in. down and 0.43 in. from left

Global for all table headers:

Table headers are inconsistent.

XYZ field values (sometimes)
or
XYZ field definition (sometimes)
or
XYZ field (sometimes)

I recommend just:
XYZ field"

-------
Comment Number: HPQ-157
Page Number: 93
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 5.2 Table 23
Comment=
"At 4.28 in. down and 1.40 in. from left

Value
s/b
Code"

-------
Comment Number: HPQ-158
Page Number: 94
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
```

Locator: 5.3
Comment=
"At 9.88 in. down and 3.27 in. from left

end-of-partition
s/b
EOP"

Comment Number: HPQ-159
Page Number: 98
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 5.4
Comment=
"At 1.98 in. down and 2.62 in. from left

(beginning-of-partition
s/b
BOP"

Comment Number: HPQ-160
Page Number: 98
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 5.4
Comment=
"At 2.31 in. down and 2.61 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-161
Page Number: 104
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 4.24 in. down and 0.24 in. from left

Need to list obsolete command opcodes
for this device type per SPC-4
16h RESERVE (6)
17h RELEASE (6)
39h COMPARE
3Ah COPY AND VERIFY
40h CHANGE DEFINITION
56h RESERVE(10)
57h RELEASE(10)"

Comment Number: HPQ-162

Page Number: 104
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 4.87 in. down and 0.30 in. from left

7Eh extended CDB is listed as optional
for this device type in SPC-4"

Comment Number: HPQ-163
Page Number: 104
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 5.29 in. down and 0.28 in. from left

SPC-4 lists these opcodes
A5h MOVE MEDIUM
B8h READ ELEMENT STATUS

as being optional for this device type.
 They should probably be listed as
obsolete"

Comment Number: HPQ-164
Page Number: 104
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 5.65 in. down and 0.25 in. from left

Mention that these opcodes
A7h MOVE MEDIUM ATTACHED
B4h READ ELEMENT STATUS ATTACHED
are obsolete for this device type"

Comment Number: HPQ-165
Page Number: 104
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 7.22 in. down and 0.50 in. from left

LOCATE (10) is listed as optional in
SPC-4"

Comment Number: HPQ-166

Page Number: 104
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 7.50 in. down and 0.32 in. from left

LOCATE (16) is listed as optional in
SPC-4"

Comment Number: HPQ-167
Page Number: 104
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 9.12 in. down and 0.37 in. from left

PR IN/OUT are listed as optional in
SPC-4"

Comment Number: HPQ-168
Page Number: 105
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 2.87 in. down and 0.83 in. from left

The PREVENT ALLOW MEDIUM REMOVAL
command needs to be defined in this
standard; it was evicted from SPC-4
since MMC-5 was not following the
general definition."

Comment Number: HPQ-169
Page Number: 105
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.1 Table 29
Comment=
"At 5.41 in. down and 1.97 in. from left

ALIAS
s/b
ALIASES"

Comment Number: HPQ-170
Page Number: 105
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight

Locator: 6.1 Table 29
Comment=
"At 5.68 in. down and 1.97 in. from left

DEVICE IDENTIFIER
s/b
IDENTIFYING INFORMATION"

Comment Number: HPQ-171
Page Number: 105
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 6.00 in. down and 0.71 in. from left

REPORT LUNS is supposed to be M not X.

The old rules along the lines of
""mandatory for LUN 0, optional for the
rest"" were eliminated by 02-260r1 per
minutes 02-273r0."

Comment Number: HPQ-172
Page Number: 105
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 6.39 in. down and 0.63 in. from left

Add:
A3h/0Dh REPORT SUPPORTED TASK
MANAGEMENT FUNCTIONS
A3h/0Eh REPORT PRIORITY
A3h/0Fh REPORT TIMESTAMP
A3h/10h MANAGEMENT PROTOCOL IN"

Comment Number: HPQ-173
Page Number: 105
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 6.1 Table 29
Comment=
"At 8.06 in. down and 0.53 in. from left

Add:
A4h/0Eh SET PRIORITY
A4h/0Fh SET TIMESTAMP
A4h/10h MANAGEMENT PROTOCOL OUT"

Comment Number: HPQ-174
Page Number: 105
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.1 Table 29
Comment=
"At 8.19 in. down and 1.67 in. from left

DEVICE IDENTIFIER
s/b
IDENTIFYING INFORMATION"

Comment Number: HPQ-175
Page Number: 111
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.5
Comment=
"At 5.30 in. down and 1.00 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-176
Page Number: 111
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.5
Comment=
"At 7.30 in. down and 2.73 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-177
Page Number: 111
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.5
Comment=
"At 7.63 in. down and 3.14 in. from left

beginning-of-partition
s/b
the BOP"

Comment Number: HPQ-178
Page Number: 112
PDF Comment Subtype: Highlight

PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 7.91 in. down and 5.21 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-179
Page Number: 112
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 8.07 in. down and 1.87 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-180
Page Number: 112
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 9.74 in. down and 2.34 in. from left

end-of-partition
s/b
EOP"

Comment Number: HPQ-181
Page Number: 112
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 9.91 in. down and 0.68 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-182
Page Number: 113
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=

"At 5.12 in. down and 1.07 in. from left

beginning-of-partition
s/b
the BOP"

Comment Number: HPQ-183
Page Number: 113
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 6.12 in. down and 3.92 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-184
Page Number: 113
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 6.45 in. down and 3.71 in. from left

count
s/b
smallcaps"

Comment Number: HPQ-185
Page Number: 113
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 7.45 in. down and 5.62 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-186
Page Number: 113
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 6.6
Comment=
"At 7.95 in. down and 1.08 in. from left

end-of-partition

s/b
EOP"

Comment Number: HPQ-187
Page Number: 119
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.1
Comment=
"At 5.71 in. down and 5.95 in. from left

beginning-of-partition 0 (BOP 0)
s/b
BOP 0"

Comment Number: HPQ-188
Page Number: 120
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.1 Table 40
Comment=
"At 1.96 in. down and 3.60 in. from left

Format field definition
s/b
FORMAT field"

Comment Number: HPQ-189
Page Number: 120
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.1 Table 40
Comment=
"At 2.29 in. down and 2.51 in. from left

Value
s/b
Code"

Comment Number: HPQ-190
Page Number: 121
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.2
Comment=
"At 6.20 in. down and 0.95 in. from left

the beginning-of-partition zero
s/b
BOP 0"

```
-------
Comment Number: HPQ-191
Page Number: 121
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.2
Comment=
"At 7.70 in. down and 2.76 in. from left

generate
s/b
establish"

-------
Comment Number: HPQ-192
Page Number: 121
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.2
Comment=
"At 10.20 in. down and 4.52 in. from left

beginning-of-medium
s/b
BOM"

-------
Comment Number: HPQ-193
Page Number: 124
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.4 Table 45
Comment=
"At 5.60 in. down and 2.48 in. from left

PREVENT
s/b
Code"

-------
Comment Number: HPQ-194
Page Number: 128
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.6.2
Comment=
"At 7.88 in. down and 5.20 in. from left

beginning-of-partition
s/b
BOP"

-------
Comment Number: HPQ-195
Page Number: 128
```

PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.6.2
Comment=
"At 8.05 in. down and 5.06 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-196
Page Number: 128
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.6.2
Comment=
"At 8.38 in. down and 6.22 in. from left

early-warning
s/b
EW"

Comment Number: HPQ-197
Page Number: 128
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.6.2
Comment=
"At 8.55 in. down and 0.45 in. from left

end-of-partition
s/b
EOP"

Comment Number: HPQ-198
Page Number: 128
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.6.2
Comment=
"At 8.71 in. down and 0.45 in. from left

early-warning
s/b
EW"

Comment Number: HPQ-199
Page Number: 128
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.6.2

```
Comment=
"At 8.71 in. down and 1.59 in. from left

end-of-partition
s/b
EOP"

-------
Comment Number: HPQ-200
Page Number: 131
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.6.3
Comment=
"At 5.14 in. down and 5.62 in. from left

beginning-of-partition
s/b
BOP"

-------
Comment Number: HPQ-201
Page Number: 138
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.8.4
Comment=
"At 8.64 in. down and 4.84 in. from left

field bit
s/b
bit"

-------
Comment Number: HPQ-202
Page Number: 140
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.9
Comment=
"At 7.16 in. down and 5.31 in. from left

beginning-of-partition
s/b
BOP"

-------
Comment Number: HPQ-203
Page Number: 141
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.1
Comment=
"At 8.14 in. down and 5.82 in. from left
```

beginning-of-partition 0 (BOP 0)
s/b
BOP 0"

Comment Number: HPQ-204
Page Number: 141
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.1
Comment=
"At 9.14 in. down and 5.21 in. from left

generate
s/b
establish"

Comment Number: HPQ-205
Page Number: 142
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.11
Comment=
"At 10.50 in. down and 4.71 in. from left

(toward beginning-of-partition)
s/b
(towards BOP)"

Comment Number: HPQ-206
Page Number: 143
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.11
Comment=
"At 1.64 in. down and 2.37 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-207
Page Number: 144
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.11
Comment=
"At 2.48 in. down and 0.68 in. from left

beginning-of-partition
s/b
BOP"

```
-------
Comment Number: HPQ-208
Page Number: 144
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.11
Comment=
"At 7.43 in. down and 0.57 in. from left

beginning-of-partition
s/b
BOP"

-------
Comment Number: HPQ-209
Page Number: 144
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 7.11
Comment=
"At 8.43 in. down and 3.49 in. from left

beginning-of-partition
s/b
BOP"

-------
Comment Number: HPQ-210
Page Number: 146
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.1 Table 63
Comment=
"At 6.78 in. down and 0.35 in. from left

Add log page subpages to table 63."

-------
Comment Number: HPQ-211
Page Number: 146
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.1 Table 63
Comment=
"At 9.22 in. down and 0.33 in. from left

Log page 08h/00h is listed in SPC-4 as
""Format Status"" for tape drives.

If it is obsolete, it should be
mentioned in table 63.  If it never
existed, it should be removed from
SPC-4."
```

Comment Number: HPQ-212
Page Number: 146
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.1 Table 63
Comment=
"At 9.25 in. down and 2.79 in. from left

Error Events
s/b
Error or Asynchronous Events"

Comment Number: HPQ-213
Page Number: 147
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.2.2
Comment=
"The following text is difficult to read:

The Sequential-Access Device log page
defines data counters associated with
data bytes transferred to and from the
medium and to and from the application
client, binary list parameters
describing native capacities, and a
binary list parameter related to
cleaning."

Change Suggestion=
"The Sequential-Access Device log page defines:
a) data counters associated with data
bytes transferred to and from the medium
and to and from the application client,
b) binary list parameters describing
native capacities, and
c) a binary list parameter related to
cleaning."

Comment Number: HPQ-214
Page Number: 147
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.1 Table 63
Comment=
"At 2.24 in. down and 2.58 in. from left

test
s/b
Test"

```
-------
Comment Number: HPQ-215
Page Number: 147
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.1 Table 63
Comment=
"At 2.87 in. down and 0.76 in. from left

Log page 12h/00h is not listed in SPC-4
for this device type"

-------
Comment Number: HPQ-216
Page Number: 147
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.1 Table 63
Comment=
"At 2.99 in. down and 1.00 in. from left

Log page 13h/00h is not listed in SPC-4
for this device type"

-------
Comment Number: HPQ-217
Page Number: 147
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.1 Table 63
Comment=
"At 3.92 in. down and 0.83 in. from left

Log page 18h/xxh is Protocol Specific
Port"

-------
Comment Number: HPQ-218
Page Number: 147
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.1 Table 63
Comment=
"At 4.26 in. down and 0.85 in. from left

Log page 2Dh/00h is not listed in SPC-4"

-------
Comment Number: HPQ-219
Page Number: 149
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.3 Table 65
Comment=
"At 4.49 in. down and 6.02 in. from left
```

Add ""(see table 66)"" in rows 4 and
n-y+1"

Comment Number: HPQ-220
Page Number: 149
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.3 Table 65
Comment=
"At 4.68 in. down and 0.61 in. from left

Since the parameter length is fixed:

Change x+3 to 8
Delete Length x=5
Change n-y+1 to n-4
Delete Length x=5"

Comment Number: HPQ-221
Page Number: 149
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.2.3
Comment=
"Update use of DS, LBIN and LP to be
consistent with latest SPC4 log
parameter fields"

Comment Number: HPQ-222
Page Number: 150
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.4.1 Table 67
Comment=
"At 6.97 in. down and 5.67 in. from left

Add ""(see table 69 in 8.2.4.2)"" in
rows 4 and n"

Comment Number: HPQ-223
Page Number: 152
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 8.2.4.3 Table 70 Byte 4
Comment=
"At 5.23 in. down and 3.56 in. from left

StrikeOut:
log"

```
-------
Comment Number: HPQ-224
Page Number: 152
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 8.2.4.3 Table 70 Byte n
Comment=
"At 5.72 in. down and 3.57 in. from left

StrikeOut:
log"

-------
Comment Number: HPQ-225
Page Number: 153
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.5 Table 72
Comment=
"At 8.80 in. down and 6.51 in. from left

Add ""(see table 73)"" in rows 4 and n"

-------
Comment Number: HPQ-226
Page Number: 154
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.5 Table 73
Comment=
"At 1.95 in. down and 5.97 in. from left

In table 73 header, add ""(part 1 of
2)"""

-------
Comment Number: HPQ-227
Page Number: 155
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 8.2.5 Table 73
Comment=
"At 2.86 in. down and 1.30 in. from left

Between bytes 32 and 63 StrikeOut:
:
:"

-------
Comment Number: HPQ-228
Page Number: 156
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.6.1 Table 74
Comment=
```

"At 9.30 in. down and 5.69 in. from left

Add ""(see table 75)"" in rows 4 and n"

Comment Number: HPQ-229
Page Number: 156
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.6.1 Table 74
Comment=
"At 9.32 in. down and 1.26 in. from left

Make row 4 and row n each two rows
tall, since they contain more than one
byte"

Comment Number: HPQ-230
Page Number: 157
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.2.6.1 Table 75
Comment=
"At 4.44 in. down and 6.10 in. from left

Add ""(see table 76)"" in rows 16 and t"

Comment Number: HPQ-231
Page Number: 158
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.6.1
Comment=
"At 1.81 in. down and 6.09 in. from left

End of first sentence on page
..
s/b
."

Comment Number: HPQ-232
Page Number: 159
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.2.6.3
Comment=
The DEVICE ELEMENT CODE (DEC) .

Change Suggestion=
The device element code (DEC) .

Comment Number: HPQ-233
Page Number: 159
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.2.6.3
Comment=
The DEVICE ELEMENT CODE QUALIFIER (DECQ) .

Change Suggestion=
The device element code qualifier (DECQ).

Comment Number: HPQ-234
Page Number: 160
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.2.6.3
Comment:
The DEVICE ELEMENT CODE TEXT (DECT) .

Change Suggestion=
The device element code text (DECT) .

Comment Number: HPQ-235
Page Number: 160
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.6.3
Comment=
"At 2.81 in. down and 7.16 in. from left

..
s/b
."

Comment Number: HPQ-236
Page Number: 160
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.6.4 Table 82
Comment=
"At 7.52 in. down and 5.02 in. from left

VOLUME INFORMATION LENGTH (n)
s/b
VOLUME INFORMATION LENGTH (n - 1)"

Comment Number: HPQ-237
Page Number: 161
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.2.6.4

Comment=
The VOLUME INFORMATION CODE (VIC) .

Change Suggestion=
The volume information code (VIC) ...

Comment Number: HPQ-238
Page Number: 161
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.2.6.4
Comment=
The VOLUME INFORMATION CODE QUALIFIER (VICQ) .
Change Suggestion=
The volume information code qualifier (VICQ) ...

Comment Number: HPQ-239
Page Number: 161
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.6.4
Comment=
"At 5.82 in. down and 5.63 in. from left

Following VOLUME INFORMATION CODE QUALIFIER
..
s/b
."

Comment Number: HPQ-240
Page Number: 161
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.6.4
Comment=
"At 10.03 in. down and 2.42 in. from left

exsits
s/b
exists"

Comment Number: HPQ-241
Page Number: 162
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.6.5 Table 85
Comment=
"At 4.28 in. down and 5.46 in. from left

2

s/b
02h"

Comment Number: HPQ-242
Page Number: 162
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.6.5
Comment=
"At 5.27 in. down and 3.18 in. from left

16384
s/b
16 384

(add ISO style spaces throughout this
page)"

Comment Number: HPQ-243
Page Number: 163
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.2.7.1 Table 86
Comment=
"At 4.94 in. down and 3.64 in. from left

Reqested
s/b
Requested"

Comment Number: HPQ-244
Page Number: 166
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 92
Comment=
"At 9.69 in. down and 1.31 in. from left

Keep table 92 on one page"

Comment Number: HPQ-245
Page Number: 167
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.1
Comment=
"e) following an unsuccessful read
operation or a successful write
operation, while at
beginning-of-partition, the device
server shall report a density code value

as described for item b);"

Change Suggestion=
"Believe this should be:

e) following an unsuccessful read
operation or an unsuccessful write
operation, while at
beginning-of-partition, the device
server shall report a density code value
as described for item b);"

Comment Number: HPQ-246
Page Number: 167
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.1
Comment=
"At 7.63 in. down and 6.61 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-247
Page Number: 167
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 93
Comment=
"At 9.55 in. down and 0.24 in. from left

Keep table 93 on one page"

Comment Number: HPQ-248
Page Number: 167
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.1 Table 93
Comment=
"At 9.78 in. down and 1.26 in. from left

Code value
s/b
Code"

Comment Number: HPQ-249
Page Number: 168
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94

Comment=
"At 6.09 in. down and 0.28 in. from left

SPC-4 claims that 0Ah/F1h is Parallel
ATA Control and 0Ah/F2h is Serial ATA
Control.

I think those are incorrect; SAT does
not define translation into SSC logical
units, so SSC should not define those
mode page codes as supported."

Comment Number: HPQ-250
Page Number: 168
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94
Comment=
"At 6.86 in. down and 0.27 in. from left

Mode page 10h/01h is not listed in
SPC-4."

Comment Number: HPQ-251
Page Number: 168
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94
Comment=
"At 7.22 in. down and 0.33 in. from left

11h/00h is called ""Medium Partition
(1)"" in SPC-4"

Comment Number: HPQ-252
Page Number: 168
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94
Comment=
"At 7.57 in. down and 0.35 in. from left

12h and 13h are not marked obsolete in
SPC-4"

Comment Number: HPQ-253
Page Number: 168
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94
Comment=

"At 7.93 in. down and 0.35 in. from left

14h/00h is labeled Enclosure Services
Management in SPC-4"

Comment Number: HPQ-254
Page Number: 168
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94
Comment=
"At 8.13 in. down and 0.76 in. from left

15h and 16h are not assigned for the
SSC device type in SPC-4"

Comment Number: HPQ-255
Page Number: 168
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.1 Table 94
Comment=
"At 8.68 in. down and 3.65 in. from left

LUN
s/b
Logical Unit"

Comment Number: HPQ-256
Page Number: 168
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94
Comment=
"At 8.77 in. down and 0.28 in. from left

18h and 19h with non-zero subpage codes
are also assigned in SPC-4 for this
device type"

Comment Number: HPQ-257
Page Number: 169
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.1 Table 94
Comment=
"At 3.23 in. down and 0.53 in. from left

1Dh/00h is not in SPC-4"

Comment Number: HPQ-258
Page Number: 169
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.1 Table 94
Comment=
"At 3.46 in. down and 1.17 in. from left

1Dh
s/b
1Eh"

Comment Number: HPQ-259
Page Number: 174
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.3
Comment=
"At 8.24 in. down and 3.40 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-260
Page Number: 175
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.3 Table 99
Comment=
"At 8.91 in. down and 4.22 in. from left

EOD DEFINED values
s/b
EOD DEFINED field definition"

Comment Number: HPQ-261
Page Number: 176
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.3
Comment=
The WORM Tamper Read Enable (WTRE) field
specifies how the device server responds
to detection of comprimised integrity
...

Change Suggestion=
The WORM Tamper Read Enable
(WTRE) field specifies how the device
server responds to detection of
compromised integrity ...

Comment Number: HPQ-262
Page Number: 177
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.3 Table 100 Code 00b
Comment=
The device
server shall respond in a
vendor-specific manner.

Change Suggestion=
The device
server shall respond in a vendor
specific manner.

Comment Number: HPQ-263
Page Number: 177
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.3 Table 100 Code 01b
Comment=
Detection of comprimised integrity on a
WORM medium shall not affect processing
of a task.

Change Suggestion=
Detection of compromised
integrity on a WORM medium shall not
affect processing of a task.

Comment Number: HPQ-264
Page Number: 177
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.3 Note 63
Comment=
NOTE 63 An application client should set
the WTRE field to 01b only for the
recovery of data from a WORM medium
where the integrity of the stored data
has been comprimised.

Change Suggestion=
NOTE 63 An application client should set
the WTRE field to 01b only for the
recovery of data from a WORM medium
where the integrity of the stored data
has been compromised.

Comment Number: HPQ-265
Page Number: 177
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.3
Comment=
"Commands that shall not be effected by
the OIR bit

set to one are defined as Allowed in the
presence of persistent reservations in
table 14 or SPC-4, or are defined in
SPC-2 as Allowed in the presence of
reservations. Commands that shall be
effected by the OIR bit set to one are
defined as Conflict ..."

Change Suggestion=
"Commands that shall not be affected by
the OIR bit set to one are defined as
Allowed in the presence of persistent
reservations in table 14 or SPC-4, or
are defined in SPC-2 as Allowed in the
presence of reservations. Commands that
shall be affected by the OIR bit set to
one are defined as Conflict ..."

Comment Number: HPQ-266
Page Number: 179
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.4
Comment=
"At 8.60 in. down and 1.12 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-267
Page Number: 179
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.4
Comment=
"At 10.24 in. down and 4.67 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-268

Page Number: 180
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.4
Comment=
"At 2.48 in. down and 3.53 in. from left

beginning-of-partition
s/b
BOP"

Comment Number: HPQ-269
Page Number: 181
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.4
Comment=
An ADDP bit of one and ..

Change Suggestion=
An additional partitions (??) (ADDP) bit of one and ..

Comment Number: HPQ-270
Page Number: 181
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.4 Table 104
Comment=
"At 8.12 in. down and 3.74 in. from left

Medium format recognition values
s/b
MEDIUM FORMAT RECOGNITION field
definition"

Comment Number: HPQ-271
Page Number: 182
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.4
Comment=
"NOTE 68 It is recommended, but not
required, that the number of partition
size descriptors available through the
Medium Partition mode page equal at
least the number of maximum addition
partitions + 1."

Change Suggestion=
"NOTE 68 It is recommended, but not
required, that the number of partition
size descriptors available through the

Medium Partition mode page equal at
least the number of maximum additional
partitions + 1."

Comment Number: HPQ-272
Page Number: 185
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.6
Comment=
"Table 107 field 32767 Reads ""Activate
all supported TapeAlert flags. Report
the informational exception condition
for the TapeAlert flag with an additional sense code of FAILURE PREDICTION
THRESHOLD EXCEEDED (FALSE) and based on the DEXCPT, MRIE,
INTERVAL TIMER, and REPORT COUNT values.""

Change Suggestion=
I believe the ""and"" is not needed after (FALSE).
"

Comment Number: HPQ-273
Page Number: 185
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.3.6 .
Comment=
if the DEXCPT bit is set to zero and the
taser bit in the Device Configuration
Extension mode page is set to zero .
.

Change Suggestion=
if the DEXCPT bit is set to zero and
the TASER bit in the Device
Configuration Extension mode page is set
to zero

Comment Number: HPQ-274
Page Number: 186
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.3.7 Table 108
Comment=
"At 4.64 in. down and 1.54 in. from left

Global (e.g. Table 108)
Use 2 rows for Reserved"

Comment Number: HPQ-275
Page Number: 186

PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.7 Table 109
Comment=
"At 7.46 in. down and 1.30 in. from left

Value
s/b
Code"

Comment Number: HPQ-276
Page Number: 187
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.3.7 Table 110
Comment=
"At 2.46 in. down and 1.80 in. from left

Value
s/b
Code"

Comment Number: HPQ-277
Page Number: 189
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.4.1 Table 113
Comment=
"At 2.76 in. down and 0.41 in. from left

Global
used Mixed Case for VPD page names"

Comment Number: HPQ-278
Page Number: 189
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.4.1 Table 113
Comment=
"At 4.32 in. down and 0.57 in. from left

B3h Automation Device Serial Number
is not listed in SPC-4"

Comment Number: HPQ-279
Page Number: 189
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.4.2
Comment=
"At 8.99 in. down and 0.95 in. from left

If the Write Once Read Many...
s/b
A Write Once Read Many bit set to one
indicates that ... A WORM bit set to
zero indicates that..."

Comment Number: HPQ-280
Page Number: 190
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.4.3
Comment=
"At 5.49 in. down and 0.29 in. from left

For the SERIAL NUMBER fields in 8.4.3
and 8.4.5:

If the serial number is not available,
wouldn't the device server just return
a PAGE LENGTH of 0? How many spaces
would it be expected to provide?"

Comment Number: HPQ-281
Page Number: 191
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.1
Comment=
"Device Server -> Physical Device

First paragraph first sentence -
""requests the device server to return
information about the data security
methods in the device server and on the
medium."""

Change Suggestion=
"Should be ""requests the device server
to return information about the data
security methods in the physical device
and on the medium."""

Comment Number: HPQ-282
Page Number: 192
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.1
Comment=
"At 1.81 in. down and 0.45 in. from left

Tape Data Encryption security protocol

s/b
20h (i.e., Tape Data Encryption) (see
SPC-4)"

Comment Number: HPQ-283
Page Number: 192
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.1 Table 118
Comment=
"At 6.07 in. down and 1.40 in. from left

30h
s/b
0030h"

Comment Number: HPQ-284
Page Number: 192
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.1 Table 118
Comment=
"At 6.31 in. down and 1.40 in. from left

31h
s/b
0031h"

Comment Number: HPQ-285
Page Number: 194
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.2.4 Table 121
Comment=
"At 5.54 in. down and 5.89 in. from left

Add ""(see table 124)"" in rows 20 and
n"

Comment Number: HPQ-286
Page Number: 194
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.2.4 Table 121
Comment=
"At 5.74 in. down and 0.74 in. from left

This descriptor size is 24 bytes, so
change first blank to 43 and the second
to n - 23"

```
-------
Comment Number: HPQ-287
Page Number: 194
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.4
Comment=
"At 6.73 in. down and 3.30 in. from left

field
s/b
field and the"

-------
Comment Number: HPQ-288
Page Number: 194
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.4
Comment=
"At 6.73 in. down and 5.02 in. from left

page code
s/b
smallcaps"

-------
Comment Number: HPQ-289
Page Number: 195
PDF Comment Subtype: 176
PDF Comment Type:
Locator: "8.5.2.4 table 123, code 01b description"
Comment=
The physical device configured.

Change Suggestion=
change to: The physical device is configured..

-------
Comment Number: HPQ-290
Page Number: 195
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.2.4 Table 124
Comment=
"At 6.63 in. down and 0.53 in. from left

add vertical line in row 4 and 5"

-------
Comment Number: HPQ-291
Page Number: 196
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.4
```

Comment=
"Device Server -> Physical Device

Second paragraph on page - ""The supplemental decryption key capable bit shall be set to one if the device server is capable . . . shall be set to zero if the device server is not capable"""

Change Suggestion=
"Should be - ""The supplemental decryption key capable bit shall be set to one if the physical device is capable . . . shall be set to zero if the physical device is not capable . . . """

Comment Number: HPQ-292
Page Number: 196
PDF Comment Subtype:
PDF Comment Type:
Locator: "3rd parag., last line"
Comment=
"""in any format that the device supports"" It is not clear whether this means ""any"" as in 1 or more, or ""any"" as in all."

Change Suggestion=
I believe this was supposed to mean : 1 or more supported formats. Change wording to clarify.

Comment Number: HPQ-293
Page Number: 196
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.4
Comment=
"Device Server -> Physical Device

Third paragraph on page - ""The distinguish encrypted data capable bit shall be set to one if the device server is capable of distinguishing encrypted data from unencrypted data when reading it from the medium. The DEC_C bit shall be set to zero if the device server is not capable . . . If no volume is mounted, the DEC_C bit shall be set to one if the device server is capable. . . """

Change Suggestion=
"Should be ""The distinguish encrypted
data capable (DED_C) bit shall be set to
one if the physical device is capable of
distinguishing encrypted data from
unencrypted data when reading it from
the medium. The DEC_C bit shall be set
to zero if the physical device is not
capable . . . If no volume is mounted,
the DEC_C bit shall be set to one if the
physical device is capable. . . """

Comment Number: HPQ-294
Page Number: 197
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.4 Table 127
Comment=
"At 5.91 in. down and 2.62 in. from left

ecryption
s/b
encryption"

Comment Number: HPQ-295
Page Number: 197
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.4 Table 127
Comment=
"At 6.31 in. down and 2.62 in. from left

ecryption
s/b
encryption"

Comment Number: HPQ-296
Page Number: 197
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.4
Comment=
"Device Server -> Physical Device

Table 128 Items 1,2,3 all show nonce as
part of device server when it has moved
to the physical device"

Change Suggestion=
"1 - The physical device generates the nonce value.
2 - The physical device requires all of part . . .
3 - The physical device supports all of

part of the nonce . . . does not include
a nonce value descriptor, the physical
device generates the nonce value."

Comment Number: HPQ-297
Page Number: 200
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.6
Comment=
"At 5.52 in. down and 5.54 in. from left

Set Data Encryption page.
s/b
Set Data Encryption page (see 8.5.3.2)."

Comment Number: HPQ-298
Page Number: 201
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.2.7 Table 132
Comment=
"At 6.30 in. down and 0.63 in. from left

Change
24..n Key-associated data descriptors
list

to:

Key-associated data descriptor list
(shaded or with double lines on top and
bottom)
24
    Key-associated data descriptor
(first)

...

    Key-associated data descriptor
(last)
n"

Comment Number: HPQ-299
Page Number: 201
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.7
Comment=
I_T nexus should be changed as per
HPQ-105 - instances not marked in red as
per earlier changes

Comment Number: HPQ-300
Page Number: 202
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.7
Comment=
"At 5.57 in. down and 0.45 in. from left

Change:
If the VCELB_C bit is set to one in the
Data Encryption Capabilities page, then
the volume contains encrypted logical
blocks (VCELB) bit shall be set to one
when a mounted volume contains an
encrypted logical block. The VCELB bit
shall be set to zero if:
a)the mounted volume does not contain
any encrypted logical blocks;
b)there is no volume mounted; or
c)the VCELB_C bit in the Data
Encryption Capabilities page is set to
zero.

to:
A volume contains encrypted logical
blocks (VCELB) bit set to one indicates
that the mounted volume contains an
encrypted logical block. A VCELB bit
set to zero indicates that either:
a)the mounted volume does not contain
any encrypted logical blocks;
b)there is no volume mounted; or
c)the VCELB_C bit in the Data
Encryption Capabilities page is set to
zero."

Comment Number: HPQ-301
Page Number: 202
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.7
Comment=
"Device Server -> Physical Device

Paragraph following a/b/c list - ""The
raw decryption mode disabled (RDMD) bit
shall be set to one if the device server
is configured to mark each encrypted
record . . . """

Change Suggestion=
"Should be ""The raw decryption mode

disabled (RDMD) bit shall be set to one
if the physical device is configured . .
. """

Comment Number: HPQ-302
Page Number: 202
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.7
Comment=
"Device Server -> Physical Device

fourth from last paragraph on page, near
end of first sentence ""at the time the
key was established in the device
server"""

Change Suggestion=
"Should be ""at the time the key was
established in the physical device"""

Comment Number: HPQ-303
Page Number: 202
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.7
Comment=
"Device Server -> Physical Device

Third from last paragraph on the page
near end of first sentence ""when the
key was established in the device
server"""

Change Suggestion=
"Should be ""when the key was
established in the physical device"""

Comment Number: HPQ-304
Page Number: 202
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.7
Comment=
"Device Server -> Physical Device

Next to last paragraph ""when the key
was established in the device server"""

Change Suggestion=
"Should be ""when the key was
established in the physical device"""

```
-------
Comment Number: HPQ-305
Page Number: 202
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.7
Comment=
"Device Server -> Physical Device

Last paragraph ""when the key was
established in the device server"""

Change Suggestion=
"Should be ""when the key was
established in the physical device"""

-------
Comment Number: HPQ-306
Page Number: 203
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.2.8 Table 134
Comment=
"At 5.37 in. down and 0.85 in. from left

It would be better to align the 8-byte
LOGICAL OBJECT NUMBER field on an 8
byte boundary"

-------
Comment Number: HPQ-307
Page Number: 203
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.7
Comment=
"Device Server -> Physical Device

First paragraph continued from previous
page middle sentence ""when the key was
established in the device server.  In
this case, the KEY DESCRIPTOR field
shall be set to the nonce value
established by the device server for use
with the selected key."""

Change Suggestion=
"Should be ""when the key was
established in the physical device.  In
this case, the KEY DESCRIPTOR field
shall be set to the nonce value
established by the physical device for
use with the selected key."""
```

```
-------
Comment Number: HPQ-308
Page Number: 204
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.8
Comment=
"Device Server -> Physical Device

Table 135 references the device server
for determining the status of the
logical blocks - should be the physical
device."

Change Suggestion=
"Should be:
0h - The physical device is incapable . . .
1h - The physical device is capable of . . .
2h - The physical device has determined . . .
3h - The physical device has determined . . .
4h - The physical device has determined . . . "

-------
Comment Number: HPQ-309
Page Number: 205
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.8
Comment=
"Device Server -> Physical Device

Table 136 references the device server
for determining the status of the
logical blocks - should be the physical
device."

Change Suggestion=
"Should be:
0h - The physical device is incapable . . .
1h - The physical device is capable of . . .
2h - The physical device has determined . . .
3h - The physical device has determined . . .
4h - The physical device has determined . . .
5h - The physical device has determined . . .
6h - The physical device has determined
. . . but the physical device is either
not enabled . . . "

-------
Comment Number: HPQ-310
Page Number: 206
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.9
Comment=
```

"At 9.91 in. down and 1.19 in. from left

)
s/b
),"

Comment Number: HPQ-311
Page Number: 206
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.8
Comment=
"Device Server -> Physical Device

Fourth paragraph second sentence - ""The
AUTHENTICATED field shall indicate the
status of the authentication done by the
device server . . . """

Change Suggestion=
"Should be: ""The AUTHENTICATED field
shall indicate the status of the
authentication done by the physical
device . . . """

Comment Number: HPQ-312
Page Number: 206
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.2.8
Comment=
"Device Server -> Physical Device

'Fifth paragraph second sentence - ""The
AUTHENTICATED field shall indicate the
status of the authentication done by the
device server . . . """

Change Suggestion=
"Should be: ""The AUTHENTICATED field
shall indicate the status of the
authentication done by the physical
device . . . """

Comment Number: HPQ-313
Page Number: 207
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.1
Comment=
"At 2.31 in. down and 4.07 in. from left

may be used by an application client to
read
s/b
returns"

Comment Number: HPQ-314
Page Number: 207
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.10.1 Table 138
Comment=
"At 5.55 in. down and 5.15 in. from left

(n-9)
s/b
(n-13)"

Comment Number: HPQ-315
Page Number: 207
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.2.10.2
Comment=
"At 5.88 in. down and 0.84 in. from left

It would be better to add 2 reserved
bytes before PUBLIC KEY LENGTH so the
PUBLIC KEY field starts on byte 16
(dword aligned)"

Comment Number: HPQ-316
Page Number: 207
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.2.10.2
Comment=
"At 9.68 in. down and 4.51 in. from left

Bytes 14 through 269..
s/b
The PUBLIC KEY field shall be set as
follows:
bytes 0 through 255 shall be set to the
modulus n; and
bytes 256 through 511 shall be set to
the public exponent e."

Comment Number: HPQ-317
Page Number: 208
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight

Locator: 8.5.2.10.3
Comment=
"At 2.14 in. down and 4.06 in. from left

Bytes 14 through 146...
s/b
The PUBLIC KEY field shall be set to
the ECC 521 public key..."

Comment Number: HPQ-318
Page Number: 208
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.1
Comment=
"At 3.81 in. down and 4.76 in. from left

Tape Data Encryption security protocol
s/b
20h (i.e., Tape Data Encryption) (see
SPC-4)"

Comment Number: HPQ-319
Page Number: 208
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.1
Comment=
"Device Server -> Physical Device

First paragraph first sentence - ""The
SECURITY PROTOCOL OUT command specifying
the Tape Data Encryption security
protocol (i.e., 20h) is used to
configure the data security methods in
the device server and on the medium"" -
data security methods are now in the
physical device"

Change Suggestion=
"Change to "". . . is used to configure
the data security methods in the
physical device and on the medium"""

Comment Number: HPQ-320
Page Number: 209
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.3.2.1 Table 141
Comment=
"At 6.69 in. down and 0.61 in. from left

It may be better to start KEY on an
8-byte aligned boundary so any 8-byte
fields contained within it (e.g. an
ESP-SCSI payload) are naturally
aligned."

Comment Number: HPQ-321
Page Number: 209
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.3.2.1 Table 141
Comment=
"At 7.28 in. down and 0.51 in. from left

Make same change as proposed in table
132 for how the descriptor list is
described"

Comment Number: HPQ-322
Page Number: 210
PDF Comment Subtype: Underline
PDF Comment Type: Underline
Locator: 8.5.3.2.1
Comment=
"At 1.82 in. down and 0.45 in. from left

Second sentence on page, Replace:
Support for scope values of PUBLIC and
ALL I_T NEXUS are mandatory for device
servers that support the Set Data
Encryption page.

with a column in table 142 showing
Mandatory and Optional for each code"

Comment Number: HPQ-323
Page Number: 210
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.2.1 Table 142
Comment=
"At 2.71 in. down and 4.06 in. from left

scope
s/b
smallcaps"

Comment Number: HPQ-324
Page Number: 210
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight

Locator: 8.5.3.2.1
Comment=
"At 4.93 in. down and 5.28 in. from left

field..

delete extra ."

Comment Number: HPQ-325
Page Number: 210
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Last paragraph on the page ""The raw
decryption mode control (RDMC) field
specifies if the device server shall
mark each encrypted block"""

Change Suggestion=
"Should be "". . . if the physical
device shall march each encrypted
block"""

Comment Number: HPQ-326
Page Number: 211
PDF Comment Subtype:
PDF Comment Type:
Locator: "4th parag, 1st line, "
Comment=
I_T nexus change to I_T_L nexus again

Change Suggestion=

Comment Number: HPQ-327
Page Number: 211
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Table 144 - device server is marking
encrypted blocks - should be physical
device"

Change Suggestion=
"Should be:

00b - The physical device shall mark . . .
01b - Reserved
10b - The physical device shall mark . . .
11b - The physical device shall mark . . "

Comment Number: HPQ-328
Page Number: 211
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Paragraph following a/b/c list "". . .
the key sent in this page shall be added
to the set of data encryption parameters
used by the device server for the
selected scope"""

Change Suggestion=
"Should be: "". . . the key sent in this
page shall be added to the set of data
encryption parameters used by the
physical device for the selected
scope"""

Comment Number: HPQ-329
Page Number: 212
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.3.2
Comment=
"At 4.89 in. down and 0.24 in. from left

Section 8.5.3.2 should include some
references to 8.5.2.5 Data Encryption
Management Capabilities, pointing out
the relationship regarding the CKOD,
CKORP, CKORL, LOCK, and the SCOPE
fields and their _C counterparts."

Comment Number: HPQ-330
Page Number: 212
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Table 145 - 2h should be updated to
reflect data is encrypted in the
physical device"

Change Suggestion=
"Should be:
2h - ENCRYPT - The physical device shall
encrypt . . ."

Comment Number: HPQ-331
Page Number: 213
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Table 146 - all fields have decryption
occuring in the device server rather
than the physical device"

Change Suggestion=
"Should be:
0h - DISABLE - Data decryption is
disabled. If the physical device
encounters . . . 1h - RAW - Data
decryption is disabled. If the physical
device encounters . . .
2h - DECRYPT - The physical device shall
decrypt all data . . .
3h - MIXED - The physical device shall
decrypt all data that is read from the
medium that the physical device
dtermines what encrypted . . . If the
physical device encounters unencrypted
data . . ."""

Comment Number: HPQ-332
Page Number: 214
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.2.1 Table 147
Comment=
"At 3.21 in. down and 2.84 in. from left

Make the descriptions in table 147
match the section header names
8.5.3.2.xx.

the key to be used to encrypt or
decrypt data.
s/b
a plain-text key

a vendor-specific key reference.
s/b

a key reference.

etc."

Comment Number: HPQ-333
Page Number: 214
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 8.5.3.2.1 item b)
Comment=
"At 8.41 in. down and 3.75 in. from left

StrikeOut:
; - following and"

Comment Number: HPQ-334
Page Number: 214
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Second paragraph following table 147 -
""If the ENCRYPTION MODE field is set to
ENCRYPT then device server shall save .
. .and associate them with every logical
block that is encrypted with this key by
the device server"""

Change Suggestion=
"Should be "". . . the physical device
shall save . . .and associate them with
every logical block that is encrypted
with this key by the physical device"""

Comment Number: HPQ-335
Page Number: 214
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Third paragraph following table 147 -
""If the ENCRYPTION MODE field is set to
EXTERNAL the device server shall save .
. ."""

Change Suggestion=
"Should be ""If the ENCRYPTION MODE
field is set to EXTERNAL the physical

device shall save . . ."""

Comment Number: HPQ-336
Page Number: 215
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 8.5.3.2.1
Comment=
"At 8.48 in. down and 7.82 in. from left

Item a) of last a/b/c list StrikeOut:
, - following or"

Comment Number: HPQ-337
Page Number: 215
PDF Comment Subtype:
PDF Comment Type:
Locator: 8.5.3.2.1
Comment=
"Device Server -> Physical Device

Third paragraph ""if a nonce value
descriptor (see 8.5.4.5) is included and
the algorithm and the device server
supports application client generated
nonce values . . . and the encryption
algorithm or the device server does not
support . . . If the encryption
algorithm or the device server request
an application client generated nonce .
. ."""

Change Suggestion=
"Should be ""if a nonce value descriptor
(see 8.5.4.5) is included and the
algorithm and the physical device
supports application client generated
nonce values . . . and the encryption
algorithm or the physical device does
not support . . . If the encryption
algorithm or the physical device request
an application client generated nonce .
. ."""

Comment Number: HPQ-338
Page Number: 217
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.2.4.1 Table 150
Comment=
"At 3.96 in. down and 4.29 in. from left

LABEL LENGTH
s/b
LABEL LENGTH (n - 3)"

Comment Number: HPQ-339
Page Number: 217
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.3.2.4.1 Table 150
Comment=
"At 4.81 in. down and 0.68 in. from left

Could padding be included so the length
fields are each aligned on 2 byte
boundaries and so the key fields are
each aligned on 4 byte boundaries?"

Comment Number: HPQ-340
Page Number: 217
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.2.4.1 Table 150
Comment=
"At 4.90 in. down and 4.05 in. from left

WRAPPED KEY LENGTH
s/b
WRAPPED KEY LENGTH (m - (n+2))"

Comment Number: HPQ-341
Page Number: 217
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.2.4.1 Table 150
Comment=
"At 5.85 in. down and 4.14 in. from left

SIGNATURE LENGTH
s/b
SIGNATURE LENGTH (z - (m+2))"

Comment Number: HPQ-342
Page Number: 218
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: 8.5.3.2.4.2
Comment=
"At 5.65 in. down and 4.40 in. from left

StrikeOut:
(MGF) - in last sentence of first paragraph"

```
-------
Comment Number: HPQ-343
Page Number: 218
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.2.4.2
Comment=
"At 6.48 in. down and 0.94 in. from left

LABEL
s/b
smallcaps"

-------
Comment Number: HPQ-344
Page Number: 219
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.3.2.4.3 Table 152
Comment=
"At 2.92 in. down and 0.85 in. from left

Make table 152 wider so the 2nd column
does not wrap"

-------
Comment Number: HPQ-345
Page Number: 219
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.3.2.5
Comment=
"At 9.38 in. down and 5.39 in. from left

ESP-SCSI out w/o length descriptor

should change to match the name used in
SPC-4

(global)"

-------
Comment Number: HPQ-346
Page Number: 220
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.3.3 Table 154
Comment=
"At 5.47 in. down and 0.18 in. from left

The ESP-SCSI out descriptor should
start on a 4 or ideally 8 byte boundary
so any fields contained within maintain
their natural alignment."
```

```
-------
Comment Number: HPQ-347
Page Number: 221
PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: 8.5.4.2 Table 156
Comment=
"At 6.08 in. down and 1.34 in. from left

Add acronyms in table 156
U-KAD
A-KAD
M-KAD

The use the acronyms in the 8.5.4.x
section headers and text."

-------
Comment Number: HPQ-348
Page Number: 221
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.4.2 Table 156
Comment=
"At 6.59 in. down and 2.56 in. from left

04
s/b
04h"

-------
Comment Number: HPQ-349
Page Number: 221
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.4.2 Table 157
Comment=
"At 9.02 in. down and 5.11 in. from left

authenticated
s/b
authentication"

-------
Comment Number: HPQ-350
Page Number: 222
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: 8.5.4.5
Comment=
"At 2.83 in. down and 1.77 in. from left

descriptor
s/b
```

key descriptor"

Comment Number: HPQ-351
Page Number: 224
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: A.2 Table A.1
Comment=
"At 9.86 in. down and 3.27 in. from left

in footnote a) StrikeOut:
in SCSI streaming devices"

Comment Number: HPQ-352
Page Number: 224
PDF Comment Subtype: StrikeOut
PDF Comment Type: Cross-Out
Locator: A.2 Table A.1
Comment=
"At 10.02 in. down and 1.82 in. from left

in footnote a) StrikeOut:
to be used"

Comment Number: HPQ-353
Page Number: 230
PDF Comment Subtype:
PDF Comment Type:
Locator: "Annex B, B.1.1"
Comment=
"Meaning of ""they"" in 3rd sentence
unclear"

Change Suggestion=
"replace ""that they use master data
management servers"" with ""that master
data management servers are used"""

Comment Number: HPQ-354
Page Number: 231
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: B.1.1
Comment=
"At 1.64 in. down and 2.74 in. from left

key manager
s/b
centralized key manager"

```
-------
Comment Number: HPQ-355
Page Number: 231
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: B.1.1
Comment=
"At 1.64 in. down and 3.60 in. from left

master server
s/b
master data management server"

-------
Comment Number: HPQ-356
Page Number: 231
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: B.1.1 item a)
Comment=
"At 2.48 in. down and 2.42 in. from left

e.g.
s/b
e.g.,"

-------
Comment Number: HPQ-357
Page Number: 231
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: B.1.2 Table B.1
Comment=
"At 6.30 in. down and 2.43 in. from left

e.g.
s/b
e.g.,"

-------
Comment Number: HPQ-358
Page Number: 231
PDF Comment Subtype: Highlight
PDF Comment Type: Highlight
Locator: B.1.2 Table B.1
Comment=
"At 7.03 in. down and 6.09 in. from left

,
s/b
;"

-------
Comment Number: HPQ-359
Page Number: 233
```

PDF Comment Subtype: Text
PDF Comment Type: Note
Locator: C.1 Figure C.1
Comment=
"At 9.96 in. down and 6.47 in. from left

Delete extra lines in bottom right box
in figure C.1"

****

Comments attached to No ballot from Kevin Butt of
IBM Corp.:

Comments on ssc3r04a.fdf

IBM comment number 1
Page=2 Subtype=Highlight Author=kdbutt
Comment=
T10 Vice-Chair

Change to Mark Evans

IBM comment number 2
Page=4 Subtype=Highlight Author=Nakayama
Comment=
06-453r0:
It would be typo: '06-453r0', because '06-453r1' is available and the
latest change is reflected to the r04a document.

IBM comment number 3
Page=13 Subtype=Highlight Author=kdbutt
Comment=
DATA ENCRYPTION PARAMETERS FOR ENCRYPTION REQUEST POLICIES
s/b
Data encryption parameters for encryption request policies

IBM comment number 4
Page=13 Subtype=Highlight Author=kdbutt
Comment=
DATA ENCRYPTION PARAMETERS FOR DECRYPTION REQUEST POLICIES
s/b
Data encryption parameters for decryption request policies

IBM comment number 5
Page=13 Subtype=Highlight Author=kdbutt
Comment=
DATA ENCRYPTION PARAMETERS FOR ENCRYPTION REQUEST INDICATOR SETTINGS
s/b
Data encryption parameters for encryption request indicator settings

IBM comment number 6
Page=13 Subtype=Highlight Author=kdbutt

Comment=
DATA ENCRYPTION PARAMETERS FOR DECRYPTION REQUEST INDICATOR SETTINGS
s/b
Data encryption parameters for decryption request indicator settings

IBM comment number 7
Page=13 Subtype=Highlight Author=kdbutt
Comment=
DATA ENCRYPTION PERIOD TIMER EXPIRED INDICATOR
s/b
Data encryption period timer expired indicator

IBM comment number 8
Page=13 Subtype=Highlight Author=kdbutt
Comment=
dest_type

small caps

IBM comment number 9
Page=14 Subtype=Highlight Author=kdbutt
Comment=
speed
small caps

IBM comment number 10
Page=14 Subtype=Highlight Author=kdbutt
Comment=
eod
small caps

IBM comment number 11
Page=14 Subtype=Highlight Author=kdbutt
Comment=
wtre
small caps

IBM comment number 12
Page=14 Subtype=Highlight Author=kdbutt
Comment=
rewind on reset
small caps

IBM comment number 13
Page=15 Subtype=Highlight Author=kdbutt
Comment=
worm mode label restrictions
small caps

IBM comment number 14
Page=15 Subtype=Highlight Author=kdbutt
Comment=
worm mode filemarks restrictions

small caps

IBM comment number 15
Page=15 Subtype=Highlight Author=kdbutt
Comment=
rdmc_c

small caps

IBM comment number 16
Page=15 Subtype=Highlight Author=kdbutt
Comment=
security protocol specific

small caps

IBM comment number 17
Page=24 Subtype=Highlight Author=kdbutt
Comment=
not coincide with
s/b
be different than

IBM comment number 18
Page=24 Subtype=StrikeOut Author=kdbutt
Comment=

Not all parameters are accessible through the page

IBM comment number 19
Page=24 Subtype=Highlight Author=kdbutt
Comment=
may be
s/b
is

IBM comment number 20
Page=25 Subtype=Highlight Author=kdbutt
Comment=
not coincide with
s/b
be different than

IBM comment number 21
Page=26 Subtype=Highlight Author=kdbutt
Comment=
3.1.56 reservation loss:
An event caused by the release of a reserve/release method reservation (see SPC-2) or by the transition within the device server from the state where a persistent reservation holder exists to the state where a persistent reservation holder does not exist (see SPC-4).

Comment 1: add:

A preempt of a reservation is not considered a reservation loss if a new

reservation is created as part of that preempt. <<to distinguish between CORL and CORP

Comment 2: Shouldn't thisstate where one of the reservation participants no longer is a part of the reservation? I am thinking of the case where a CORL is set and a single initiator from an RO type of persistent reservation is preempted.

There seems to be a hole in the clearon reservation loss vs. clear on reservation preempt.

IBM comment number 22
Page=26 Subtype=Highlight Author=kdbutt
Comment=
3.1.53 physical device: An object in a SCSI target device that performs operations on a volume (e.g., reading, writing, loading, and unloading). It also stores parameters and communicates between device servers.

IBM comment number 23
Page=28 Subtype=Highlight Author=kdbutt
Comment=
cpapbility
s/b
capability

IBM comment number 24
Page=28 Subtype=Highlight Author=kdbutt
Comment=
3.1.81 unencrypted block: A logical block containing data that has not been subjected to a ciphering process by the device server.

add

This is often called cleartext.

IBM comment number 25
Page=28 Subtype=StrikeOut Author=kdbutt
Comment=
part of the unloading

This happens in more than just unloading.

IBM comment number 26
Page=28 Subtype=StrikeOut Author=kdbutt
Comment=
part of the loading

This happens in more than just loading process

IBM comment number 27
Page=39 Subtype=Highlight Author=katagiri
Comment=
Is it better to make sure REW is set or not. In addition, "REW bit" is referred in read/space/verify command also. I think it is better to make sure how programable early warning affect these command.

IBM comment number 28
Page=39 Subtype=Text Author=kdbutt
Comment=
add figure to 4.2.5 that shows PEWZ and PEWS superimposed on Figure 9

IBM comment number 29
Page=48 Subtype=Highlight Author=kdbutt
Comment=
can
s/b
is able to

IBM comment number 30
Page=48 Subtype=Highlight Author=kdbutt
Comment=
only can be recorded at EOD
s/b
an attempt to write in an unrecordable location is attempted.

IBM comment number 31
Page=50 Subtype=Highlight Author=kdbutt
Comment=
can facilitate
s/b
facilitates

IBM comment number 32
Page=50 Subtype=Highlight Author=kdbutt
Comment=
How is it known that the device server will become ready. There is an implicating here that ac's can't know.

IBM comment number 33
Page=51 Subtype=Highlight Author=kdbutt
Comment=
must
s/b
is required to

IBM comment number 34
Page=61 Subtype=Highlight Author=kdbutt
Comment=
systme
s/b
system

IBM comment number 35
Page=61 Subtype=Highlight Author=Nakayama
Comment=
Severity
s/b
Default Severity

IBM comment number 36

Page=62 Subtype=Highlight Author=kdbutt
Comment=
.l
s/b
.

IBM comment number 37
Page=62 Subtype=Highlight Author=kdbutt
Comment=
8.2.3.x
s/b
8.2.6.5

IBM comment number 38
Page=63 Subtype=Highlight Author=kdbutt
Comment=
Start of next medium load

Is this correct? Should it clear after the medium is ejected (or removed) instead? This way an AC or the library can use the flag to determine the action needed.

IBM comment number 39
Page=71 Subtype=Highlight Author=kdbutt
Comment=
and
s/b
or

IBM comment number 40
Page=71 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b
I_T nexus

IBM comment number 41
Page=71 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b
I_T nexus

IBM comment number 42
Page=71 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b
I_T nexus

IBM comment number 43
Page=71 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b

I_T nexus

IBM comment number 44
Page=71 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b
I_T nexus

IBM comment number 45
Page=71 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b
I_T nexus

IBM comment number 46
Page=72 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b
I_T nexus

IBM comment number 47
Page=72 Subtype=Highlight Author=kdbutt
Comment=
I_T_L nexus
s/b
I_T nexus

IBM comment number 48
Page=72 Subtype=Highlight Author=kdbutt
Comment=
shall be
s/b
is

IBM comment number 49
Page=75 Subtype=Highlight Author=kdbutt
Comment=
f)a power on condition occurs.

add:

g) vendor-specific events (e.g., External data encryption control specified clearings)

Perhaps list them out specifically

IBM comment number 50
Page=77 Subtype=Highlight Author=kdbutt
Comment=
support encryption
s/b
tape data encryption

DS may support SA's and thereby support encryption but not the Tape Data Encryption page.

IBM comment number 51
Page=77 Subtype=Highlight Author=kdbutt
Comment=
By default, the device server shall set the saved I_T nexus parameters data encryption scope value to PUBLIC and lock value to zero.
s/b
The device server shall set the saved I_T nexus parameters data encryption scope value to PUBLIC and lock value to zero at power-on

IBM comment number 52
Page=77 Subtype=StrikeOut Author=kdbutt
Comment=single bit

IBM comment number 53
Page=78 Subtype=Highlight Author=kdbutt
Comment=
no
s/b
not enough

IBM comment number 54
Page=78 Subtype=Highlight Author=kdbutt
Comment=
beyond
s/b
outside

IBM comment number 55
Page=80 Subtype=Highlight Author=kdbutt
Comment=
an external entity
s/b
an entity that is not part of the device server

IBM comment number 56
Page=80 Subtype=StrikeOut Author=kdbutt
Comment=external

IBM comment number 57
Page=80 Subtype=Highlight Author=kdbutt
Comment=
If the physical device has a saved set of data encryption parameters associated with this device server or has a medium mounted, then the physical device shall not allow external data encryption control of data encryption capabilities. If the physical device does not have a set of data encryption parameters associated with this device server and does not have a medium mounted, then external data encryption control may be used to change the data encryption capabilities.
s/b
External data encryption control may be used to change data encryption capabilities if the physical device:

a) does not have a set of data encryption parameters associated with this device server; and
b) does not have a medium mounted.

External data encryption control shall not be used to change data encryption capabilities if the physical device:
a) has a set of data encryption parameters associated with this device server; or
b) has a medium mounted.

IBM comment number 58
Page=80 Subtype=Highlight Author=kdbutt
Comment=
4.2.22 External data encryption control

"External data encryption control" is a name that will lead to confusion. "External" is already used to describe the RAW read/EXTERNAL write and there is a variable called "check external encryption mode" related to that.

Change "External data encryption" to "Out of band data encryption"

IBM comment number 59
Page=81 Subtype=Highlight Author=kdbutt
Comment=
External data encryption control may be used to control data encryption parameters by using:
1)a data encryption parameters request policy to set a data encryption parameters request indicator to TRUE;
2)a data encryption parameters period to determine how long to wait for the data encryption parameters request indicator to be set to FALSE; and
3)the set of data encryption parameters that have been set in the physical device.

Why is this an ordered list instead of an unordered list. Change to unordered list.

IBM comment number 60
Page=82 Subtype=Highlight Author=kdbutt
Comment=
data decryption parameters request indicator to be set to TRUE

add cross reference

(see Table 16)

IBM comment number 61
Page=83 Subtype=Highlight Author=kdbutt
Comment=
encryptionparameters
s/b
encryption parameters

IBM comment number 62
Page=83 Subtype=Highlight Author=kdbutt

Comment=
a
s/b
an

IBM comment number 63
Page=83 Subtype=Highlight Author=kdbutt
Comment=
Move the e.g. to correct place in sentence

The physical device is waiting for the data encryption parameters for encryption request indicator to be set to FALSE (e.g., an ADC device server processes a SECURITY PROTOCOL OUT command with a DATA ENCRYPTION PARAMETERS COMPLETE page and the clear encryption parameters request (CEPR) bit set to one, see ADC-3) before continuing to process the task in the enabled task state.

IBM comment number 64
Page=83 Subtype=Highlight Author=kdbutt
Comment=
FALSE, then

s/b

FALSE

IBM comment number 65
Page=84 Subtype=Highlight Author=kdbutt
Comment=
Move the e.g. to the correct location in the sentence

The physical device is waiting for the data encryption parameters for decryption request indicator to be set to FALSE (e.g., an ADC device server processes a SECURITY PROTOCOL OUT command with a DATA ENCRYPTION PARAMETERS COMPLETE page and the clear encryption parameters
request (CEPR) bit set to one, see ADC-3) before continuing to process the task in the enabled task state.

IBM comment number 66
Page=84 Subtype=Highlight Author=kdbutt
Comment=
FALSE, then

s/b

FALSE

IBM comment number 67
Page=84 Subtype=Highlight Author=kdbutt
Comment=
determine how long the physical device waits for a set of data encryption parameters;

Is this true? Is it how long Physical device waits for parameters or how long the device server waits for the request indicator to be set to FALSE,

or is both? Does the physical device set the request indicator to FALSE or does the DS?

IBM comment number 68
Page=84 Subtype=Highlight Author=kdbutt
Comment=
if
s/b
when

IBM comment number 69
Page=85 Subtype=Highlight Author=kdbutt
Comment=
show
s/b
shown

IBM comment number 70
Page=85 Subtype=Highlight Author=kdbutt
Comment=
If
s/b
When

IBM comment number 71
Page=85 Subtype=Highlight Author=kdbutt
Comment=
Data Encryption Status page

Add cross-reference

IBM comment number 72
Page=86 Subtype=Highlight Author=kdbutt
Comment=
can unwrap
s/b
is capable of unwrapping

IBM comment number 73
Page=86 Subtype=Highlight Author=kdbutt
Comment=
To prevent an attacker from having the ability to send a wrapped key, the device server shall maintain the authorization white list in a manner that prevents an attacker from modifying the white list.

IBM comment number 74
Page=86 Subtype=Highlight Author=kdbutt
Comment=
Is it correct to say that a device server should do all this? Doesn't it require more than the device server?

IBM comment number 75
Page=86 Subtype=Highlight Author=kdbutt
Comment=
NOTE 14 NIST SP800-57 Part 1 discourages combining non-comparable strength

algorithms.

While it can be argued that this is a good note to have somewhere, this does not seem like the correct place.

IBM comment number 76
Page=86 Subtype=Highlight Author=kdbutt
Comment=
may ensure
s/b
ensures

TECHNICAL

IBM comment number 77
Page=87 Subtype=Highlight Author=kdbutt
Comment=
vced
s/b
volume contains encrypted logical blocks (VCELB)

IBM comment number 78
Page=87 Subtype=Highlight Author=kdbutt
Comment=
the
s/b
a

IBM comment number 79
Page=87 Subtype=Highlight Author=kdbutt
Comment=
VCEDRE
s/b
volume containing encrypted logical blocks requires encryption (VCELBRE)

IBM comment number 80
Page=129 Subtype=Highlight Author=katagiri
Comment=
or
s/b
and not

IBM comment number 81
Page=133 Subtype=Highlight Author=kdbutt
Comment=
select the maximum block length supported by the logical unit to ensure that all buffered data will be transferred and set the FIXED bit to zero.
s/b
set the FIXED bit to zero and select the maximum block length supported by the logical unit to ensure that all buffered data is transferred.

IBM comment number 82
Page=148 Subtype=Highlight Author=kdbutt
Comment=native capacity (see 3.1.46)

IBM comment number 83
Page=148 Subtype=Highlight Author=kdbutt
Comment=native capacity (see 3.1.46)

IBM comment number 84
Page=148 Subtype=StrikeOut Author=kdbutt
Comment=
This native capacity is assuming one-to-one compression (e.g., compression disabled), the medium is in good condition, and that the device recommended typical block size is used.

IBM comment number 85
Page=148 Subtype=Highlight Author=kdbutt
Comment=native capacity (see 3.1.46)

IBM comment number 86
Page=148 Subtype=Highlight Author=kdbutt
Comment=native capacity (see 3.1.46)

IBM comment number 87
Page=148 Subtype=Highlight Author=kdbutt
Comment=native capacity (see 3.1.46)

IBM comment number 88
Page=148 Subtype=Highlight Author=kdbutt
Comment=
There is no guarantee about the amount of data that can be written before reaching EW.
s/b
Conditions may occur that reduce the amount of data that is written before reaching EW.

IBM comment number 89
Page=163 Subtype=Highlight Author=kdbutt
Comment=
rrqst

small caps

IBM comment number 90
Page=165 Subtype=Highlight Author=kdbutt
Comment=
reovery
s/b
recovery

IBM comment number 91
Page=165 Subtype=Highlight Author=kdbutt
Comment=
contact
s/b
Contact

IBM comment number 92
Page=165 Subtype=Highlight Author=kdbutt

Comment=
no other recovery procedures shall be reported.
s/b
no other recovery procedures other than 0Dh and 0Eh shall be reported.

IBM comment number 93
Page=165 Subtype=Highlight Author=kdbutt
Comment=
no other recovery procedures shall be reported.
s/b
no other recovery procedures other than 0Dh and 0Eh shall be reported.

IBM comment number 94
Page=166 Subtype=Highlight Author=kdbutt
Comment=
will be
s/b
is

IBM comment number 95
Page=198 Subtype=Highlight Author=kdbutt
Comment=
that the device server can support
s/b
supported by the device server

IBM comment number 96
Page=198 Subtype=Highlight Author=kdbutt
Comment=
that the device server can support
s/b
supported by the device server

IBM comment number 97
Page=225 Subtype=Highlight Author=kdbutt
Comment=
can be
s/b
is capable of being

IBM comment number 98
Page=225 Subtype=Highlight Author=kdbutt
Comment=
The drive can no longer write data to the tape.
s/b
Data is no longer able to be written to the tape by the drive

IBM comment number 99
Page=225 Subtype=Highlight Author=kdbutt
Comment=
The drive can no longer read data from the tape.
s/b
Data is no longer able to be read from the tape by the drive

IBM comment number 100

Page=225 Subtype=Highlight Author=kdbutt
Comment=
can no longer
s/b
is no longer able to

IBM comment number 101
Page=226 Subtype=Highlight Author=kdbutt
Comment=
can
s/b
may

IBM comment number 102
Page=226 Subtype=Highlight Author=kdbutt
Comment=
will appear
s/b
appears

IBM comment number 103
Page=226 Subtype=Highlight Author=kdbutt
Comment=
will be
s/b
is

IBM comment number 104
Page=227 Subtype=Highlight Author=kdbutt
Comment=
The drive is having severe trouble reading or writing, that will be resolved by a retension cycle.
s/b
A retension cycle is needed to resolve severe reading or writing problems.

IBM comment number 105
Page=228 Subtype=Highlight Author=kdbutt
Comment=
can
s/b
may

IBM comment number 106
Page=228 Subtype=Highlight Author=kdbutt
Comment=
will be
s/b
is

IBM comment number 107
Page=231 Subtype=Highlight Author=kdbutt
Comment=
can easily be
s/b
is easily

****

Comments attached to Abs ballot from John Geldman of
Lexar Media, Inc.:

Not pertinent to Lexar's business

****

Comments attached to Abs ballot from Gregory Tabor of
Maxim Integrated Products:

SSC is outside of Maxim's business focus. Maxim has no opinion and defers to
those who are informed on this topic.

****

Comments attached to Abs ballot from Mark Overby of
Nvidia Corp.:

NVIDIA abstains as it has no technical expertise in the field of stream SCSI

devices.

****

Comments attached to No ballot from Paul Suhler of
Quantum Corp.:

Quantum Comments on SSC-3 Rev 04a

QTM-pas-001
E
2
T10 vice-chair
Lists George
Change to Mark

QTM-pas-002
T/E
18
Foreword, 2nd para.
Refers to SAM-3. Is this correct?
SAM-4 ?

QTM-pas-004
E
21

Physical interconnect examples
Lists SPI-2 through -4
Delete and list only SPI-5 ?

QTM-pas-005
E
21
Physical interconnect, etc. examples
Lists T10 project numbers for approved standards
Change to ANSI standard numbers, or delete as appropriate

QTM-pas-006
E
22
2.1
Title "Normative references" is the same as for 2, immediately above
Change to "Normative references overview"

QTM-pas-007
E
23
2.2 Approved references
Need ref. for ISO/IEC 18033-2 (used in 8.5.3.2.4.3)
ISO/IEC 18033-2

QTM-pas-008
E
23
2.2 Approved references
Need reference for ANSI X9.63 (used in 8.5.2.10.3)
ANSI X9.63:2001, Public Key Cryptography for the Financial Services Industry - Key Agreement and Key Transport Using Elliptic Curve Cryptography

QTM-pas-009
E
23
2.2 Approved references
Need ref. for PKCS #1 V2.1 (used in 8.5.2.10.2)
IETF RFC 2437, Public-Key Cryptography Standards (PKCS) #1: RSA Cryptography Specifications Version 2.1, February 2003

QTM-pas-010
E
23
2.4 NIST references
Need ref. for FIPS 140-2 (used in 8.5.3.2.4.3)
FIPS 140-2 Security Requirements for Cryptographic Modules, July 10, 2001

QTM-pas-011
E
23
2.4 NIST references
Need ref. for FIPS 186-2 (used in 8.5.3.2.4.3)
FIPS 186-2 Digital Signature Standard (DSS), January 27, 2000

QTM-pas-012
E
27
3.1.61
Typo: synonmous
synonymous

QTM-pas-013
E
27
3.1.75
Typo: A device server cpapbility
A device server capability

QTM-pas-014
E
27
3.1.x
Per Editors Note 3, need a definition of authorization white list.
authorization white list: A set of identifiers (typically public keys) for entities which are authorized to perform some operation.

QTM-pas-015
E
37
Fig. 8
Two boxes are titled "Device Serve"
"Device Server"

QTM-pas-016
E
37
Fig. 8
Box is titled "Physical Devic"
"Physical Device"

QTM-pas-017
E
38
Table 2
Ref. for TapeAlert Flags is "table 10"
Capitalize: "Table 10"

QTM-pas-018
E
39
4.2.5, 2nd para
While "PEWZ" is expanded in the definitions, it would be nice to have it here as well.
Change "PEWZ" to "programmable-early-warning zone (PEWZ)"

QTM-pas-019
E
39
4.2.5, 3rd para

Check condition looks like it's part of the ASC: "the device server does not report PROGRAMMABLE EARLY WARNING DETECTED CHECK CONDITION."
Also, "does not" is not proper standardese.
"the device server shall not report CHECK CONDITION status with the additional sense code set to PROGRAMMABLE EARLY WARNING DETECTED."

QTM-pas-020
E
40
1st para, last sentence
"additional sense" is not used without "code"
"additional sense was not reported" s/b "additional sense code was not reported"

QTM-pas-021
E
60
Transition All:F0
Typo: reset, ot I_T nexus
reset, or I_T nexus

QTM-pas-022
E
61
Table 9, value 0Bh definition
Typo: systme
system

QTM-pas-023
E
65
4.2.17.2.2 second lettered list, a)
Typo: priot
prior

QTM-pas-024
E
68
1st paragraph, 2nd sentence
Typo: TapeAert
TapeAlert

QTM-pas-025
E
75
Last lettered list on page, a)
Typo: data encryption parameter
data encryption parameters

QTM-pas-026
E
75
Editors Note 1
I disagree that data encryption parameter is ambiguous. It's in the definitions (3.1.13), where it refers to 4.2.21.8, where all the elements

are listed.
Delete editors note 1

QTM-pas-027
E
80
4.2.22: Entire clause
The word "external" in "external data encryption control" is similar to the Encryption Mode setting "EXTERNAL." Should a different word than "external"

be used?
"alternate" ?

QTM-pas-028
E
80
4.2.22.2.1. 2nd para
Pluralize: "for all I_T nexus that have"
"for all I_T nexuses that have"

QTM-pas-029
E
80
4.2.22.2.2, second lettered list a) B)
A) and B) should use the same words for the disabled algorithm
"B) report the encryption algorithm in" s/b "B) report the disabled data encryption algorithm in"

QTM-pas-030
E
81
4.2.22.3.2, 2nd para, 1st sentence
"data encryption parameters for encryption parameters request policy" is the

wrong name for the policy
s/b "data encryption parameters for encryption request policy"

QTM-pas-031
E
82
1st sentence on page
Just call these policies, not policy settings: "...data encryption parameters for encryption request policies setting are specified inâ¦"
"...data encryption parameters for encryption request policies are specified

in..."

QTM-pas-032
E
82
Table 15 footnotes
Note designator should not be in format "a)"
s/b superscript a

QTM-pas-033

E
83
1st sentence on page
Just call these policies, not policy settings: "...data encryption parameters for decryption request policies setting are specified inâ¦" "...data encryption parameters for decryption request policies are specified in..."

QTM-pas-034
E
83
Table 16, last row, description
Typo: encryptionparameters
encryption parameters

QTM-pas-035
E
83
Table 17, following
Do we need a statement "The physical device shall not change the logical position while the data encryption parameters for encryption request indicator is set to TRUE." ?
Add statement

QTM-pas-036
E
84
4.2.22.3.4, 1st lettered list
Tense disagreement: b) track how long the physical device has waited for a set of data encryption parameters after a data encryption parameters request indicator is set to TRUE;
b) track how long the physical device has waited for a set of data encryption parameters after a data encryption parameters request indicator has been set to TRUE;

QTM-pas-037
E
84
4.2.22.3.4, para after 1st lettered list
"data encryption parameters period time" is more clear as a timeout value "data encryption parameters timeout value"

QTM-pas-038
E
84
4.2.22.3.4, 2nd para after 1st lettered list
"data encryption parameters period time" is more clear as a timeout value "data encryption parameters timeout value"

QTM-pas-039
T
84

After last lettered list on page
A statement is needed about how the timeout value is set.
Add paragraph: "The means by which the data encryption parameters timeout value is set is beyond the scope of this standard."

QTM-pas-040
E
85
Lettered list after Table 19
"indicator" missing from "a) data encryption period timer expired shall"
s/b "a)data encryption period timer expired indicator shall"

QTM-pas-041
E
85
Lettered list after Table 19
Redundant "with" in: "...CHECK CONDITION status, with the sense key..."
"...CHECK CONDITION status, the sense key..."

QTM-pas-042
E
86
4.2.23.1, 1st para, 2nd sentence
"Key disclosure may be mitigated byâ¦" sounds like disclosure is assumed.
"The possibility of key disclosure may be mitigated byâ¦"

QTM-pas-043
E
86
4.2.23.2, 1st para, 1st sentence
Need acronym" "Security associations (see SPC-4)â¦"
"Security associations (SAs, see SPC-4)â¦"

QTM-pas-044
E
86
4.2.23.3, 1st para, last sentence
"...that owns the private portion of this public key..." is not correct.
"...that knows the private key corresponding to this public keyâ¦"

QTM-pas-045
E
86
4.2.23.3, 3rd para, last sentence
Incorrect tense in: "...(such operations will grant the attackerâ¦"
"...(such operations would grant the attackerâ¦"

QTM-pas-046
E
86
4.2.24, last para on page
VCED_C is not in the referenced page
s/b VCELB_C

QTM-pas-047

E
86
4.2.24, last para on page
VCEDRE is not in the referenced page
s/b VCELBRE

QTM-pas-048
E
87
a) in lettered list
VCEDRE is not in the referenced page
s/b VCELBRE

QTM-pas-049
E
87
b) in lettered list
vced bit is not in the referenced page
s/b VCELB

QTM-pas-050
E
92
Table 22, value 01b definition
Typo: procesiing
processing

QTM-pas-051
E
99
3rd para after Table 26
Typo: tansfers
transfers

QTM-pas-052
E
148
4th para after Table 65
Typo: TapeALert
TapeAlert

QTM-pas-053
E
150
Table 67, last row, description
Type: specifc
specific

QTM-pas-054
E
158
Last para on page
Typo: specfic
specific

QTM-pas-055
E
160
Last para on page
Typo: exsits
exists

QTM-pas-056
E
162
Table 85, last row
Typo: Reqested
Requested

QTM-pas-057
E
163
3rd para after Table 87
Typo: reovery procedures
recovery procedures

QTM-pas-058
E
164
Table 88, value 09h description
Typo: No reovery
No recovery

QTM-pas-059
E
175
Last para on page
Typo: comprimised
compromised

QTM-pas-060
E
176
Table 99, code 01b description
Typo: comprimised
compromised

QTM-pas-061
E
176
Note 63
Typo: comprimised
compromised

QTM-pas-062
E
187
Para before Table 111
Spell out zero and one for bit fields
"... the LONG bit set to 0" s/b "... the LONG bit set to zero"

QTM-pas-063
E
187
Last para on page
Repeated: bit is set set to one
bit is set to one

QTM-pas-064
E
196
Table 26, code 01b description
Typo: The ecryption
The encryption

QTM-pas-065
E
196
Table 26, code 10b description
Typo: The ecryption
The encryption

QTM-pas-066
E
212
Next-to-last para on page
Typo: the deevice server
the device server

QTM-pas-067
E
222
8.5.4.11 only paragraph
Typo: identifer
identifier

QTM-rbw-1
3
E
Remove revision history

QTM-rbw-2
21
E
Add ADT to Transport Protocols

QTM-rbw-3
21
E
Add ADC to command sets

QTM-rbw-4
23
E
Add ADC-2 to approved references

QTM-rbw-5
23
E
Add ADC-3 to references under development

QTM-rbw-6
24
E
3.1.13 data encryption parameters: A set of parameters accessible through the Set Data Encryption page (see 8.5.3.2) that controls the data encryption and decryption process
s/b ...processes

QTM-rbw-7
25
E
3.1.18 end-of-data (EOD): A recorded indication that no valid logical objects are recorded between this position and end-of-partition.
s/b ...end-of-partition (see 3.1.20).

QTM-rbw-8
25
E
3.1.22 explicit address command set: The command set in which read
s/b ...which reads

QTM-rbw-9
25
E
3.1.30 implicit address command set: The command set in which read
s/b ...which reads

QTM-rbw-10
27
E
3.1.59 SCSI initiator device: A SCSI device containing application clients and SCSI initiator ports that originates device service and task management requests to be process
s/b ...to be processed

QTM-rbw-11
28
E
begin

QTM-rbw-12
28
E
3.1.75 TapeAlert: A device server cpapbility
s/b capability

QTM-rbw-13
28

E
3.1.76 thread: A part of the loading process in which the recording medium is being engaged for positioning on a
suitable transport mechanism (e.g., spooled on to a take up reel, wrapped around the surface of a helical scan
drum). After threading is complete the tape device may beginning positioning the medium to an initial position.
s/b ...take-up reel; wrapped...
s/b ...may begin...

QTM-rbw-14
28
E
3.1.82 unthread: A part of the unloading process in which the recording medium is being disengaged from the
suitable transport mechanism (e.g., de-spooled from a take up reel,
s/b ...take-up reel;

QTM-rbw-15
28
Add ADC to list of acronyms

QTM-rbw-16
30
E
3.4 - uppercase letter may be used
s/b ...letters...

QTM-rbw-17
34
T
Ready is the state of the logical unit when medium access and non-medium access commands may be processed.
Aren't TUR, INQUIRY, REPORT LUNS, etc non-medium access commands? Is the logical unit Ready with no media mounted and
able to process these commands?

QTM-rbw-18
37
E
Device Serve
s/b Device Server (three of these)

QTM-rbw-19
38
E
figure 8..
s/b figure 8.

QTM-rbw-20
40
E
4.2.6 - Partitions consist of one or more non-overlapped logical volumes, each with its own beginning and ending points,
contained within single physical volume.

s/b ...within a single...

QTM-rbw-21
42
E
4.2.7.2 - The READ POSITION command
Global comment - one convention is to provide a reference for the first use of a command within a sub-clause (e.g., READ
POSITION command (see 7.6), or WRITE BUFFER command (see SPC-4)).
Throughout this standard it appears to be
inconsistent when this convention is used, so suggest adding first usage references throughout.

QTM-rbw-22
45
E
Table 3 defines the streams commands
s/b ...the stream commands...

QTM-rbw-23
47
E
Suggest making this citation of the FIXED bit a footnote within table 5 instead of a new paragraph.

QTM-rbw-24
47
E
if buffered mode 1h is selected, the error shall
Global comment:
Suggest using the convention of "if <something>, then <something>" throughout instead of "if <something>, <something> as it
appears here. The "then" helps set apart the action to take and make text consistent. (There are several instances throughout the
standard missing the "then", so this comment will be the only mention of it).

QTM-rbw-25
47
E
4.2.13.1 - Write protection of the medium prevents the alteration of logical objects on the medium and any change
s/b ...medium, and any change...

QTM-rbw-26
48
E
If more than one condition exists, the device server shall either report the applicable condition in order of
HARDWARE WRITE PROTECTED, PERMANENT WRITE PROTECT, PERSISTENT WRITE PROTECT,
ASSOCIATED WRITE PROTECT, and LOGICAL UNIT SOFTWARE WRITE PROTECTED, or report the generic
additional sense code of WRITE PROTECTED.
Make this a numbered list.

QTM-rbw-27
48
E
a) the format on the current medium is read-only by the device server;
s/b ...medium is maintained as read-only...

QTM-rbw-28
48
c) the medium is an archive tape
Definition or reference for 'archive tape'?

QTM-rbw-29
49
E
4.2.13.3 - Software write protection for the device server controls write protection for the device server.
(this statement seems circular; better wording?)

QTM-rbw-30
49
E
4.2.13.3 - The state of each control bit shall be set to its default state after a logical unit reset.
Where is the default state specified?

QTM-rbw-31
50
E
Table 7 â□' Commands providing progress indication without changing ready state
Needs (Continued) for split table

QTM-rbw-32
51
f) an application client shall specify a Command Reference Number (see SAM-3) for each command in a
tagged write sequence.
Would suggest rewording in terms of the device server to avoid placing requirement on application client (e.g., device shall expect
and check a CRN...)

QTM-rbw-33
51
E
When operating in implicit address mode, spacing operations and commands to read and write on
s/b ...read from and write on...

QTM-rbw-34
51
E
When operating in explicit address mode, commands to read and write on the
s/b ...read from and write on...

QTM-rbw-35
52
E
A common command containing a BAM bit
Should this be "a generic command"? (two places)

QTM-rbw-36
53
T
So there's no way to return to A0 from F0, E0, or E1?

QTM-rbw-37
55
f) an explicit command is enabled and the medium position is not at BOx. In this case the device server shall
This doesn't seem like normal lettered list formatting, as it doesn't read like a single, semi-colon delimited sentence. The "In this case" statements break the pattern. (several)

QTM-rbw-38
60
E
Transition All:F0: This transition shall occur when a power-on, logical unit reset, ot I_T nexus loss
s/b of I_T nexus

QTM-rbw-39
61
E
TapeAlert flags fall into three categories of default severity (see table 9).
There are six categories shown in table 9.

QTM-rbw-40
61
E
The event that generated this device information may be retried.
s/b The event that generated this information...

QTM-rbw-41
61
E
The systme may not
s/b The system...

QTM-rbw-42
61
E
The condition should be logged and/or the operator informed
(missing period at end)

QTM-rbw-43
61
T
Not all six severities are used in Table 10

QTM-rbw-44
62
E
Table 10 specifies the 64 TapeAlert flags for a sequential-access device.
See Annex A for additional information
about each TapeAlert flag.l
(trailing I after period)

QTM-rbw-45
62
E
Severity
The single letters for severity are not defined in the table footer and
need to be.

QTM-rbw-46
64
T
Should we add TA flags for data encryption/decryption errors?

QTM-rbw-47
64
E
establish an Informational
s/b establish and informational

QTM-rbw-48
64
E
more TapeAlert flags; and
s/b flags; or

QTM-rbw-49
65
E
(e.g. polled
at a regular interval of 60 seconds).
s/b (e.g.,

QTM-rbw-50
65
E
a) priot to
s/b prior

QTM-rbw-51
65
E
that an informational exception has occurred.
s/b ...informational exception condition...

QTM-rbw-52
65
E

flags appears in the Information sense data descriptor
s/b information sense

QTM-rbw-53
66
E
not wish to receive a unit attention condition (see 8.2.3)
s/b (see 8.2.3); and

QTM-rbw-54
66
E
d) establishing a threshold value and a threshold met criteria (tmc) value for each TapeAlert log page
parameter with the etc bit set to one
s/b TMC (small caps); ETC (small caps)

QTM-rbw-55
66
E
de-activation.
de-activation or deactivation? (consistency)

QTM-rbw-56
66
E
in the Information sense
information sense

QTM-rbw-57
66
E
the PCR field set to one
(is PCR a field or bit?)

QTM-rbw-58
67
E
NOTE 7 The device server deactivating TapeAlert flags on any basis other than per I_T nexus, if the TAPLSD bit is
set to zero, violates backwards compatibility with previous versions of this standard.
suggest:
If the TAPLSD bit is
set to zero, then if the device server deactivates TapeAlert flags on any basis other than per I_T nexus violates backwards
compatibility with previous versions of this standard.

QTM-rbw-59
67
T
In addition to the deactivation conditions for all TapeAlert flags (see 4.2.17.3), the device server shall activate
s/b ...shall deactivate...

QTM-rbw-60
67
E
execution of an autoload operation
s/b b) execution
(i.e., format as item b of list)

QTM-rbw-61
67
E
are not affected by port events
s/b SCSI port events

QTM-rbw-62
67
E
requiring the application client to maintain at least one previously
retrieved
TapeAlert Response log page in order to detect differences.
Suggest converting this to an "e.g.," since this is not the only way of
accomplishing this (and doesn't place a requirement on the
client).

QTM-rbw-63
68
E
A value of Oh specifies that
s/b Oh indicates that

QTM-rbw-64
68
E
The use of specific vendor identification other than the one associated
with the
device is allowed.
s/b A vendor identification other than the one associated with the device
may be used.

QTM-rbw-65
68
E
(Flag 1 = MSB, Byte 1; Flag 64 = LSB, Byte 8).
s/b (i.e., Flag 1 = MSB, byte 1; Flag 64 = LSB, byte 8).

QTM-rbw-66
68
E
The bits
specify all the TapeAlert flags that were set during the previous load,
(i.e., the bits are â□œstickyâ□□ for the load).
s/b ...that were set to one during...
(and)
(i.e., the bits remain set to one for the duration of the load).

QTM-rbw-67

69
E
A value of 0h specifies
s/b 0h indicates

QTM-rbw-68
69
E
when a registrants only or all registrants persistent
s/b ...or an all...

QTM-rbw-69
69
E
Need table footer on first page too.

QTM-rbw-70
70
E
commands by the devices server.
s/b device server

QTM-rbw-71
71
E
While in WORM mode, WRITE, WRITE FILEMARKS, ERASE, FORMAT MEDIUM, SET
CAPACITY, and MODE
SELECT commands
need to expand to WRITE(6), WRITE(16), WRITE FILEMARKS(6)/(16),
ERASE(6)/(16).

QTM-rbw-72
71
E
determine if medium
s/b determine if a medium

QTM-rbw-73
72
T
4.2.21.3, 4th para, 4th sentence:
If the device server is capable of determining that the encryption
s/b determining that the decryption

QTM-rbw-74
72
E
or MIXED, but all of the keys
s/b MIXED, and all

QTM-rbw-75
72
E
encrypted block, shall cause
s/b encrypted block shall cause

QTM-rbw-76
72
E
DECRYPT or MIXED but the data fails
s/b MIXED and the

QTM-rbw-77
73
E
A device server that is capable of distinguishing encrypted blocks from unencrypted blocks and has been
configured to decrypt the data should perform at least one of the following for each encrypted block that is
decrypted:
suggest:
For each encrypted block that is
decrypted, a device server that is capable of distinguishing encrypted blocks from unencrypted blocks and has been
configured to decrypt the data should:

QTM-rbw-78
73
T
A device server that is capable of both determining if the encryption
s/b
For each encrypted block, a device server...

QTM-rbw-79
73
T
encryption algorithm being broken
What does "being broken" mean?

QTM-rbw-80
73
T
This condition
shall persist until the volume is demounted or a hard reset condition occurs.
Comment:
Someone that has enough control to be setting encryption parameters and sending keys to try certainly has the ability to
demount/remount a volume or instigate a hard reset. As such, is this mechanism really providing much value?

QTM-rbw-81
74
E
DECRYPTION MODE field is set to RAW
s/b field set to RAW

QTM-rbw-82
74
E

is set to 10b:
s/b is set to 10b, then:

QTM-rbw-83
75
E
The physical device also may have limited resources
for storage of keys.
(strike this sentence, as it doesn't specify anything).

QTM-rbw-84
75
E
A device server that supports encryption
s/b ...that supports data encryption...

QTM-rbw-85
75
T
The method by which keys
and their associated vendor-specific key references are made available to
the device server is outside the scope of
this standard.
(Isn't this the SPOUT command and Tape Data Encryption protocol?)

QTM-rbw-86
75
E
and the device server experiences a reservation loss
what does it mean for a device server to "experience" a reservation loss?

QTM-rbw-87
76
The first three pairs of lettered lists on this page should be numbered
lists (i.e., release the resources before establishing)

QTM-rbw-88
76
E
key), at the physical device
s/b and the physical device

QTM-rbw-89
76
T
After a vendor-specific event, doesn't the physical device still need to
release resources?

QTM-rbw-90
77
E
If an I_T nexus data encryption scope is set to PUBLIC it indicates the
physical device does not have a saved set
of data encryption parameters that were established by that I_T nexus.
Device servers that support encryption

s/b
An I_T nexus data encryption scope set to PUBLIC indicates that the physical device does not have a saved set of data encryption parameters that were established by that I_T nexus. Device servers that support data encryption

QTM-rbw-91
78
E
A physical device may have limited resources for storage of sets of data encryption parameters (i.e., it may not
have enough resources to store a unique set of data encryption parameters for every I_T nexus that it is capable of
managing).
This sentence should be removed since it doesn't specify anything. However, if not removed, then the 'may' should be changed
since it is not granting permission to have limited resources.

QTM-rbw-92
78
E
some values which may be changed
s/b values that may be

QTM-rbw-93
78
E
d) other vendor-specific data encryption capabilities.
(need to increase font size)

QTM-rbw-94
79
E
an application client which cause the physical
s/b client that cause

QTM-rbw-95
79
E
The device server reports its capability with respect to nonce values
s/b
The device server reports its nonce value capability in...

QTM-rbw-96
79
E
additional data which is associated
s/b data that is

QTM-rbw-97
79
T
plaintext,
What is plaintext?

QTM-rbw-98
79
E
but which is not encrypted.
s/b but that is not

QTM-rbw-99
79
E
It may be authenticated
s/b to what is 'it' referring?

QTM-rbw-100
80
E
key-associated data to be protected
s/b data to be authenticated

QTM-rbw-101
80
E
Some encryption algorithms allow or require the use of additional data which is associated
s/b
Some data encryption... ...data that is...

QTM-rbw-102
80
E
If a supported encryption algorithm has been disabled then:
s/b ...has been disabled, then:

QTM-rbw-103
81
T
NOTE 13 The SECURITY PROTOCOL IN command specifying the Tape Data Encryption security protocol and the
Data Encryption Status page may be used to determine whether external data encryption control has been used to
provide a set of data encryption parameters.
Limited to just provide, or includes establish, change, or control? (as in previous wording)

QTM-rbw-104
81
T
4.2.22.3.1 - Numbered list should be lettered list.

QTM-rbw-105
82
E
if running in unbuffered,
s/b in unbuffered mode,

QTM-rbw-106

82
E
when the operation will not be
('will' is not an allowed standards term)

QTM-rbw-107
83
E
encryptionparameters
s/b encryption parameters

QTM-rbw-108
83
E
from a entity using
s/b from an entity

QTM-rbw-109
84
E
shall be set to defaults on:
a) a hard reset condition;
b) a volume is demounted;
c) a data encryption parameters request period timeout (see 4.2.22.3.4); or
d) successfully
processing
s/b
shall be set to defaults:
a) on a...
b) when a...
c) after a...
d) after a...

QTM-rbw-110
84
E
The data encryption parameters period settings shall contain a data
encryption parameters period time, a data
encryption period timer, and a data encryption parameters period expired
indicator.
(make into a lettered list)

QTM-rbw-111
85
T
then the device server
shall respond to a SECURITY PROTOCOL IN command specifying the Tape Data
Encryption security protocol and
the Data Encryption Status page with the PARAMETERS CONTROL field set to
011b or 100b.
Respond with what?

QTM-rbw-112
86
E

such as key wrapping and/or securing the channel used to transmit
the key.
s/b
(e.g., key wrapping...).

QTM-rbw-113
86
E
While these public keys are not secret, the device server shall maintain
the authorization white list in a
way that will prevent an attacker from modifying a public key or even
injecting his own (such operations will grant
the attacker the ability to send wrapped keys to the device server).
s/b
While these public keys are not secret, the device server shall maintain
the authorization white list in a
way that prevents an attacker from modifying or adding a public key (e.g.,
such operations may grant
the attacker the ability to send wrapped keys to the device server).

QTM-rbw-114
86
E
A volume contains no encrypted
s/b A volume contains either no encrypted...

QTM-rbw-115
87
E
The logical position following the completion of a self-test is not
specified by this standard. See SPC-4.
s/b
The logical position following the completion of a self-test (see SPC-4) is
not specified by this standard.

QTM-rbw-116
87
E
CbCS is a credential-based system that manages access to a logical unit or
a volume. See SPC-4.
s/b
CbCS (see SPC-4) is a credential-based system that manages access to a
logical unit or a volume.

QTM-rbw-117
87
E
shalll
s/b shall

QTM-rbw-118
89
E
The following command codes
Should command codes be opcodes? (as in table 21).

(same comment for 6.1)

QTM-rbw-119
124
T
The PREVENT ALLOW MEDIUM REMOVAL command (see table 44) requests that the logical unit enable or
disable the removal of the medium.
Wouldn't it be more accurate to say 'removal of the volume' since that is the physical carrier of the medium? Could add a sentence
to say removal includes volume.

QTM-rbw-120
124
E
Medium removal shall be prohibited.
s/b shall be prevented.

QTM-rbw-121
124
T
The prevention of medium removal shall begin when any application client issues a PREVENT ALLOW MEDIUM
REMOVAL command with a PREVENT field of 01b (i.e., medium removal prevented).
Suggest stating that it begins after device server successfully processing command

QTM-rbw-122
124
T
receipt of a PREVENT ALLOW MEDIUM REMOVAL command with a PREVENT field of 00b;
Suggest rewording as device server successfully processing command. Also need an 'or' after this A) item (indented list)

QTM-rbw-123
124
E
B) an I_T nexus loss; or
s/b B) an I_T nexis loss;

QTM-rbw-124
124
E
If possible, the device server shall perform an synchronize cache operation before terminating the prevention of
medium removal.
remove sentence

QTM-rbw-125
124
E
with the PREVENT field set to zero
s/b set to 00b

QTM-rbw-126
124
E
for each the I_T nexuses
s/b
for each I_T nexus

QTM-rbw-127
124
E
function for an initiator port
s/b for a SCSI initiator port

QTM-rbw-128
124
E
allow removal of the medium by an operator.
s/b removal of the volume by an operator.

QTM-rbw-129
129
E
if the PEWS field (see 8.3.8) is set
to zero.
Global comment:
The use of 'zero' and 'one' should be limited to bit values. Field values should have notation such as 00h or 0000h (field size dependent).

QTM-rbw-130
129
E
the PARTITION NUMBER field shall be set to zero.
s/b 00h

QTM-rbw-131
137
E
A WRTOK bit
spell out

QTM-rbw-132
137
E
A DUP bit
spell out

QTM-rbw-133
137
E
A DEFLT bit
spell out

QTM-rbw-134

137
E
If the Descriptor Length Valid (DLV)
s/b
If the descriptor length valid (DLV)

QTM-rbw-135
139
E
(MSB)
Remove all MSB and LSB from the primary density codes field, as it has subfields.

QTM-rbw-136
139
E
Add MSB and LSB to the last three fields in table 57, since they do not have subfields.

QTM-rbw-137
139
E
shall contain zero.
s/b 00h

QTM-rbw-138
140
E
any document that specifies a characteristics
s/b that specifies characteristics

QTM-rbw-139
147
T
What is the parameter format for the log page specified in 8.2.2? Seems to be missing (e.g., what size are the parameters?)

QTM-rbw-140
156
E
The PRODUCT REVISION LEVEL field shall
contains the
s/b shall contain the

QTM-rbw-141
156
E
The OPERATION CODE field and
SERVICE ACTION field if applicable contain
s/b
The OPERATION CODE field and
SERVICE ACTION field, if applicable, contain

QTM-rbw-142
156

E
If medium was present at the time
s/b If a medium...

QTM-rbw-143
156
T
1) the BARCODE field...
This should be a lettered list.

QTM-rbw-144
157
E
Flag Number
s/b flag number

QTM-rbw-145
157
E
a Log Select command.
s/b a LOG SELECT command.

QTM-rbw-146
157
E
the REPORT TIMESTAMP parameter
s/b the REPORT TIMESTAMP command parameter

QTM-rbw-147
159
E
DEVICE SERVERITY
s/b DEVICE SEVERITY

QTM-rbw-148
159
T
The DEVICE SEVERITY CODE field is specified in table 9.
Table 9 specifies the TapeAlert flag severities; suggest dropping 'DEVICE'
from this field name (as well as similar in table 82) to
make common.

QTM-rbw-149
160
E
The DEVICE ELEMENT CODE TEXT (DECT) field
s/b The device element code text (DECT) field

QTM-rbw-150
160
E
in prioritized order..
(remove extra period)

QTM-rbw-151

160
E
VOLUME SERVERITY
s/b VOLUME SEVERITY

QTM-rbw-152
161
T
The VOLUME SEVERITY CODE field is specified
(see previous comment on table 79)

QTM-rbw-153
161
E
The VOLUME INFORMATION CODE (VIC) field is specified in table 80.
s/b table 83.

QTM-rbw-154
161
E
specified in table 84..
(remove extra period)

QTM-rbw-155
161
T
The VOLUME IDENTIFICATION LENGTH field specifies the length of the volume identification descriptors.
The length of one descriptor or all of them?

QTM-rbw-156
161
E
If the volume information descriptor is returned
s/b If a volume...

QTM-rbw-157
161
T
1) a MAM attribute...
This should be a lettered list.

QTM-rbw-158
163
E
server may set the rrqst bit to one
(rrqst needs small caps)

QTM-rbw-159
164
T
If the INTXN bit in the VHF data descriptor of the DT Device Status log page (see ADC-2) is set to one, the parameter shall report only code 00h
(i.e., Recovery not requested).

This appears to be a problem, as this bit is controlled by another device server (i.e., ADC not SSC). How can one device server qualify the behavior f another? Need to move into physical device?

QTM-rbw-160
164
E
recovery requested,
s/b Recovery requested

QTM-rbw-161
164
T
Table 89 â' Recovery procedures
How do these recovery procedure requests interact with the ADC recovery requests? May not want the ADC and SSC requests to conflict or collide. Model clause needed?

QTM-rbw-162
165
E
Table 89 â' Recovery procedures
need (Continued) on split table

QTM-rbw-163
165
E
a volume. contact
s/b volume. Contact

QTM-rbw-164
165
T
and the RRQST bit in the VHF data descriptor of the DT Device Status log page (see ADC-2) is set to zero,
Same as previous comment on inter-device server interaction. Two more places following also.

QTM-rbw-165
165
E
then the application client shall not issue a load or unload command
Should reword so as to not place requirement on client, but on device server.

QTM-rbw-166
165
E
Issue UNLOAD command; Instruct
s/b command. Instruct

QTM-rbw-167
168
E
Table 93 â' Sequential-access density codes

need (Continued) on split table

QTM-rbw-168
169
E
Table 94 â' Mode page codes and subpage codes
need (Continued) on split table

QTM-rbw-169
175
E
A REW bit of one specifies
(combine with previous paragraph)

QTM-rbw-170
184
E
Table 71 defines the
s/b Table 107

QTM-rbw-171
187
E
A TapeAlert Prevent LOG SENSE Deactivation (TAPLSD) bit
s/b A TapeAlert prevent LOG SENSE deactivation...

QTM-rbw-172
187
E
A TapeAlert Respect Page Control (TARPC)
s/b A TapeAlert respect page control...

QTM-rbw-173
188
E
A TapeAlert Select Exception Reporting (TASER) bit
s/b A TapeAlert select exception reporting...

QTM-rbw-174
188
E
A TapeAlert Respect Parameter Fields (TARPF)
s/b A Tapealert respect parameter fields...

QTM-rbw-175
188
E
The Programmable Early Warning Size (PEWS)
s/b The programmable early warning size...

QTM-rbw-176
188
E
(VCELBRE) bit is set set to
s/b is set to

QTM-rbw-177
188
E
VCELBRE bit is set to zero then
s/b is set to zero, then

QTM-rbw-178
189
E
If the Write Once Read Many (WORM) bit
s/b the write once read many

QTM-rbw-179
191
T
via the Automation Device Serial Number subpage, see ADC-3),
This is no longer a valid reference.

QTM-rbw-180
195
E
UKADF AKADF
needs separator bar

QTM-rbw-181
196
E
Name
capitalize the name first letter (i.e., No, Software, Hardware, Capable)

QTM-rbw-182
196
E
has no has data decryption
s/b has no data

QTM-rbw-183
197
E
Name
same comment as table 125

QTM-rbw-184
197
E
device has no has data encryption
s/b has no data

QTM-rbw-185
197
E
ecryption
s/b encryption (two places)

QTM-rbw-186
198
E
Fixed
s/b fixed (two places)

QTM-rbw-187
199
E
SECURITY ALGORITHM CODE field contains an security algorithm
s/b contains a security algorithm

QTM-rbw-188
202
T
Table 133:
011b Data encryption parameters are not exclusively controlled by the automation/drive interface
device server.
100b Data encryption parameters are not exclusively controlled by a management interface.
These should both be "are exclusively controlled"

QTM-rbw-189
208
E
The SECURITY PROTOCOL
(fix the font on 'The')

QTM-rbw-190
213
E
deevice
s/b device

QTM-rbw-191
215
E
RAW; or,
s/b RAW; or

QTM-rbw-192
219
E
w/o
Is this correct?

****

Comments attached to Abs ballot from Michael Rogers of Samsung:

Not materially affected by this proposal.

****

Comments attached to Abs ballot from Gerald Houlder of
Seagate Technology:

Seagate is not materially affected by this standard.

****

Comments attached to No ballot from Roger Cummings of
Symantec:

1 (tech) Page: xviii Location: Foreword

Problem Description:
In the second paragraph, the name of the field and the structure containing it are incorrect, and the reference should be to the published SAM-3.

Suggested Solution:
This standard specifies the external behavior of a device server that defines itself as a sequential-access device in the PERIPHERAL DEVICE TYPE field of the standard INQUIRY data. This device type is known as a stream device. This standard conforms to ANSI INCITS 402-2005, SCSI Architecture Model - 3.

2 (tech) Page: xviii Location: Foreword

Problem Description:
The foreword contains a conformance statement that does not occur anywhere else in the text.

Suggested Solution:
Add a sentence to the first paragraph of 1 Scope that reads "The definitions in this standard conform to the requirements of SAM-3."

3 (tech) Page: 1 Location: Scope

Problem Description:
The reference to the Inquiry field in item a) of the list is incorrect.

Suggested Solution:
a) permit an application client to communicate over a SCSI service delivery subsystem, with a logical unit that declares itself to be a sequential-access device in the PERIPHERAL DEVICE TYPE field of the standard INQUIRY data (see SPC-3);

4 (edit) Page: 1 Location: Figure 1

Problem Description:
Correct the label "Shared Command Set (for all device types)" to match the text used in other standards.

Suggested Solution:
Primary Command Set (for all device types)

5 (tech) Page: 3 Location: 2 Normative References

Problem Description:
Add ADC-2, PKCS #1, ANSI X9.63, ISO/IEC 18033-2 to the list of references (ADC is referenced in 4.2.3 & Table 2, PKCS in 8.5.2.10.2, ECC & ANSI X9.63 in 8.5.2.10.3, ISO/IEC 18033-2 in 8.5.3.2.4.3)

Suggested Solution:
Add references

6 (tech) Page: 5 Location: 3.1.3 Auxiliary memory

Problem Description:
Delete the definition of auxiliary memory. Wherever the term is used in the document its preceded by "medium" and there's already a definition for that.

Suggested Solution:
Delete the definition.

7 (tech) Page: 7 Location: 3.1.44 medium auxiliary memory (MAM)

Problem Description:
This definition should reference the definition in SPC-4.

Suggested Solution:
An auxiliary memory residing on a medium that is accessible to the device server (e.g., a tape cartridge). See SPC-4.

8 (tech) Page: 7 Location: 3.1.51 page

Problem Description:
The page definition should be the same as, and should reference, SPC-3.

Suggested Solution:
page: A regular parameter structure (or format) used by several commands. These pages are identified with a value known as a page code. (see SPC-4)

9 (edit) Page: 7 Location: 3.2 Acronyms

Problem Description:
Add the following acronyms

Suggested Solution:
ADC Automation Device Control, PEWZ , SDK, RSA, ECC

10 (edit) Page: 15 Location: Figure 3

Problem Description:
Ther terms BOM & EOM (and BOP & EOP) are used throughout this section, but are never fully defined.

Suggested Solution:
Spell out acronym on first usage.

11 (edit) Page: 17 Location: 4.2.3 Physical Device

Problem Description:
The reference SSC & ADC in item a) is very cryptic and needs to be expanded.

Suggested Solution:
(e.g. where a physical device is associated with a auotmation device that can perform media movement, both a device server that implement the commands set defined in this standard and a device server that impements another command set such as ADC-2 may control the device);

12 (edit) Page: 18 Location: Figure 8

Problem Description:
The names in three of the boxes have been cropped.

Suggested Solution:
Correct

13 (edit) Page: 20 Location: 4.2.5

Problem Description:
Define PEWZ on first usage.

Suggested Solution:

14 (edit) Page: 21 Location: 4.2.6 Partitions within a volume

Problem Description:
Use (n) for the partition number to avoid confusion with Box & EOx.

Suggested Solution:
Each partition (n) within a volume has a defined beginning-of-partition (BOP n), an early-warning position (EW n), and an end-of-partition (EOP n).

15 (edit) Page: 22 Location: 4.2.7.1 Logical objects within a partition

Problem Description:
Use (n) for the partition number to avoid confusion with Box & EOx.

Suggested Solution:
The area between BOP n and EOP n….

16 (edit) Page: 52 Location: 4.2.21.1 Data Encryption

Problem Description:
Change the red text in this section to black.

Suggested Solution:

17 (edit) Page: 52 Location: 4.2.21.1 Data Encryption

Problem Description:
The first sentence of this section is prone to giving the erroneous impression that a device can decypt the contents of a logical block on the media and replace the block on the media with unencrypted information, and thus needs clarification.

Suggested Solution:
A device compliant with this standard may contain hardware or software that is capable of encrypting the data within logical blocks as those blocks are stored on the media, and decrypting the data within logical blocks as those blocks are read from the media, to provide security against unauthorized access to that data.

18 (edit) Page: 53 Location: 4.2.21.3 Reading encrypted blocks

Problem Description:
"shall be vendor specific" is oxymoronic

Suggested Solution:
"is vendor specific"

19 (tech) Page: 54 Location: 4.2.21.5 Keyless copy

Problem Description:
This section 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;

Suggested Solution:

20 (edit) Page: 57 Location: 4.2.21.7 Saved Information

Problem Description:
This section needs to be moved to the end of section 4.21 so that it occurs after concepts such as lock & key instance counter have been defined.

Suggested Solution:
Move section

21 (edit) Page: 58 Location: 4.2.21.8 Data encryption parameters

Problem Description:
This section needs to be moved to the end of section 4.21 so that it occurs after concepts such as KAD & Nonce have been defined.

Suggested Solution:
Move section

22 (edit) Page: 61 Location: 4.2.22 External data encryption control

Problem Description:
This section should identify how an application client determines that a

physical device has the capability for external data encryption control BEFORE it happens.

Suggested Solution:

23 (tech) Page: 61 Location: 4.2.22 External data encryption control

Problem Description:
The interaction between this feature and the encryption mode locking defined in 4.2.21.11 needs to be defined. Specifically, can a lock be placed when the data encryption paremeters are under external control?

Suggested Solution:

24 (edit) Page: 66 Location: 4.2.22.5 External data encryption control error conditions

Problem Description:
Change reference to ADC-2 for consistency with the rest of the document.

Suggested Solution:
(see ADC-2)

25 (edit) Page: 175 Location: 8.5.2.4 Data Encryption capabilities page

Problem Description:
I don't believe that this page "requests that information…." Us the same format as for the other pages.

Suggested Solution:
Table 121 specifies the format of the Data Encryption Capabilities page. The page reports information on the set of data encryption algorithms supported by this device server. If external data encryption control is supported, then the set of data encryption algorithms reported by the device server may not include all of the algorithms in the set of data encryption algorithms supported by the physical device.

26 (edit) Page: 176 Location: Table 124

Problem Description:
There is a vertical divider missing between UKADF & AKADF

Suggested Solution:
Insert

27 (edit) Page: 178 Location: Table 127

Problem Description:
Typo "ecryption"

Suggested Solution:
Correct

28 (edit) Page: 178 Location: Table 128

Problem Description:
Show the code in this table using binary notation as per the other two tables on this page.

Suggested Solution:
Correct

29 (edit) Page: 191 Location: Table 142

Problem Description:
Show the code in this table using binary notation as per the other two tables on this page.

Suggested Solution:
Correct

30 (edit) Page: 201 Location: 8.5.4.1

Problem Description:
typo "Pages in used"

Suggested Solution:
Delete "in"

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Comments attached to Abs ballot from Dan Gorenc of TycoElectronics:

No objections, just doesn't affect connectors.

********** End of Ballot Report **********