T10/03-283r0

Voting Results on T10 Letter Ballot 03-282r0 on
Forwarding ADC to First Public Review
Ballot closed: 2003/09/22 12:00 noon MDT

Organization	Name	S	Vote	Add'l Info
Adaptec, Inc.	Tim Symons	P	Yes	
Agilent Technologies	Pat Thaler	P	Yes	
Amphenol Interconnect	Michael Wingard	P	Yes	
Andiamo Systems, Inc.	Claudio DeSanti	P	Yes	
Brocade	Robert Snively	P	Abs	Cmnts
Congruent Software, Inc.	Peter Johansson	P	Abs	Cmnts
Crossroads Systems, Inc.	Robert Griswold	P	Yes	
Dallas Semiconductor	James A. Lott, Jr.	P	Yes	
Dell, Inc.	Kevin Marks	P	Yes	
EMC Corp.	Gary S. Robinson	P	Yes	
Emulex	Robert H. Nixon	P	Abs	Cmnts
ENDL	Ralph O. Weber	P	No	Cmnts
FCI	Douglas Wagner	P	Yes	
Fujitsu	Mike Fitzpatrick	P	Yes	
General Dynamics	Nathan Hastad	P	Yes	
Hewlett Packard Co.	Rob Elliott	P	No	Cmnts
Hitachi Cable Manchester	Zane Daggett	P	Yes	
Hitachi Global Storage Tech.	Dan Colegrove	P	Yes	
IBM Corp.	George O. Penokie	P	No	Cmnts
Intel Corp.	Cris Simpson	P	Yes	
Iomega Corp.	Hiromichi Oribe	P	Yes	
LSI Logic Corp.	John Lohmeyer	P	Yes	
Madison Cable Corp.	Jie Fan	P	Yes	
Maxtor Corp.	Mark Evans	P	Yes	
Microsoft Corp.	Emily Hill	P	Yes	Cmnts
Molex Inc.	Jay Neer	P	Yes	
Network Appliance Inc.			DNV	
Panasonic Technologies, Inc	Terence J. Nelson	P	Yes	
Philips Electronics	William P. McFerrin	P	Yes	
Pivot3, Inc.	Bill Galloway	P	Yes	
QLogic Corp.	Skip Jones	P	Yes	
Quantum Corp.	Paul Entzel	P	No	Cmnts
SBS Technologies	David Peterson	P	Yes	
Seagate Technology	Gerald Houlder	P	No	Cmnts
Storage Technology Corp.	Erich Oetting	P	Yes	Cmnts
Sun Microsystems, Inc.	Vit Novak	P	Yes	
Texas Instruments	Paul D. Aloisi	P	Yes	
Toshiba	Hiroshi Suzuki	P	Yes	
UNISYS	Ron Mathews	P	Yes	
Veritas Software	Roger Cummings	P	Abs	Cmnts
Vixel Corp.	Kenneth Hirata	P	Abs	Cmnts

Ballot totals: (30:5:5:1=41)
 30 Yes
  5 No
  5 Abstain
  1 Organization(s) did not vote
 41 Total voting organizations
 12 Ballot(s) included comments

This 2/3rds majority ballot passed.
30 Yes are more than half the membership eligible to vote minus abstentions
  [greater than 18] AND
30 Yes are at least 24 (2/3rds of those voting, excluding abstentions [35]) AND
30 Yes are equal to or exceed a quorum [13]

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

****

Comments attached to Abs ballot from Robert Snively of
Brocade:

This standard is outside the scope of the technical interests of Brocade
Communications.

****

Comments attached to Abs ballot from Peter Johansson of
Congruent Software, Inc.:

The subject matter of the ADC draft does not materially affect my
organization.

****

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

This proposed standard is not relevant to the business of my organization.

****

Comments attached to No ballot from Ralph O. Weber of
ENDL:

ENDL 1
PDF pg 3, pg iii
Remove Revision History in dpANS

ENDL 2
PDF pg 12, pg xii, Introduction
Lately, I have started adding the annexes to the list in the Introduction.

ENDL 3
PDF pg 16, pg 4, 2.2 Approved references
The ISO number for SPC-2 is 14776-452.

ENDL 4
PDF pg 16, pg 4, 2.2 Approved references
add ISO/IEC 14776-115, SCSI Parallel Interface - 5
Probably can remove the SPI-3 and SPI-4 references.

ENDL 5
PDF pg 16, pg 4, 2.2 Approved references
The ISO number for FC-FS is 14165-251.

ENDL 6
PDF pg 16, pg 4, 2.2 Approved references
add ISO/IEC 14165-122, Fibre Channel Arbitrated Loop - 2

ENDL 7
PDF pg 16, pg 4, 2.3 References under development
The ISO number for SPC-3 is 14776-453.

ENDL 8
PDF pg 16, pg 4, 2.3 References under development
FCP-2 is an approved standard.

ENDL 9
PDF pg 17, pg 5, 3.1.1 accessible state
The last sentence should be a separate glossary entry.

ENDL 10

PDF pg 17, pg 5, 3.1.2, 3.1.8, 3.1.11, 3.1.18, 3.1.29, 3.1.30, 3.1.31, 3.1.32, and 3.1.38
in the SCSI Architecture Model-2 standard [s/b] in SAM-2. [9 times]

Alternatively, 4.2.2 must spell out SAM-2.

ENDL 11
PDF pg 17, pg 5, 3.1.4
Delete the definition for ACA. The only use is in the task set and the reference to SAM-2 in that glossary entry is sufficient to cover the usage.

ENDL 12
PDF pg 17, pg 5, 3.1
Add a glossary entry for 'bridging'.

ENDL 13
PDF pg 17, pg 5, 3.1.13 indication
Why is 'indication' defined but not the other three steps (i.e., 'request', 'response', and 'confirmation')? Why does the only use of 'indication' in the working draft (in note 1) not match the glossary definition? Perhaps the better part of valor would be to remove the glossary entry.

ENDL 14
PDF pg 17, pg 5, 3.1.14 I_T nexus, 3.1.15 I_T_L nexus, 3.1.16 I_T_L_Q nexus
Add references to SAM-2.

ENDL 15
PDF pg 17, pg 5, 3.1.16 I_T_L_Q nexus
queue tag [s/b] task tag [twice]

ENDL 16
PDF pg 18, pg 6, 3.1.20, 3.1.21
in SCSI Architecture Model-2 [s/b reworded to be consistent with 3.1.2] [twice]

ENDL 17
PDF pg 18, pg 6, 3.1.23 object
Remove this glossary entry because, based on other proposed changes, it is not used and because it is an obsolete term.

ENDL 18
PDF pg 18, pg 6, 3.1.24 port
I am not aware of a recognized definition for 'SCSI bus segment'. Add a glossary entry or the existing text with wording that is defined across all SCSI.

ENDL 19
PDF pg 18, pg 6, 3.1.25 primary
This glossary entry raises more questions than it answers. Should the term being defined be 'primary interface'? Is there such a thing as 'secondary interface'? If yes, why is the 'secondary interface' so insignificant as to be unworthy of a glossary entry?

ENDL 20
PDF pg 18, pg 6, 3.1.26 queue
Remove this glossary entry because, based on other proposed changes, it is not used except in glossary entries that reference SAM-2.

ENDL 21
PDF pg 18, pg 6, 3.1.35 task
Add reference to SAM-2.

ENDL 22
PDF pg 19, pg 7, 3.1.36 task manager
Remove this glossary entry because it is not used except in glossary entries that reference SAM-2.

ENDL 23
PDF pg 19, pg 7, 3.1.37 task management function
Replace this glossary entry with:

task management request: A request that a task management function be performed, see SAM-2.

[Fix the SAM-2 reference to match the one in 3.1.2.]

ENDL 24
PDF pg 19, pg 7, 3.2 Symbols and abbreviations
Remove the following abbreviations because they are not used in the body of the standard: CRC, DTE, DUT, and ISI.

ENDL 25
PDF pg 19, pg 7, 3.2 Symbols and abbreviations
add
FC-AL-2 Fibre Channel Arbitrated Loop (see clause 2)
FC-FS Fibre Channel Framing and Signaling (see clause 2)

ENDL 26
PDF pg 19, pg 7, 3.2 Symbols and abbreviations
add Gb/sec. Gigabytes per second

ENDL 27
PDF pg 19, pg 7, 3.2 Symbols and abbreviations
to support table 12 add Rsvd Reserved

ENDL 28
PDF pg 20, pg 8, 3.2 Symbols and abbreviations
add SPI-5 SCSI Parallel Interface -5 (see clause 2)

ENDL 29
PDF pg 20, pg 8, 3.2 Symbols and abbreviations
add VPD Vital Product Data (see SPC-3)

ENDL 30
PDF pg 22, pg 10, 4.1, entire subclause
This subclause contains nothing except statements the boil down to little more than 'an automation device is an automation device'.

Replace this entire subclause with:

'This standard defines a command set that allows interactions between media changer devices and the removable media devices to which they transfer elements of media. Interactions initiated by both the removable media device and the media changer device are defined.

'The commands in this standard assume the handling of data in a sequential manner by the underlying SCSI transport protocol. However, this does not limit the usage of this command set to a specific SCSI transport protocol.'

ENDL 31
PDF pg 22, pg 10, 4.2.1
Great care is taken to describe the device types found at ADT ports and DTD ports. However the device type found at an Automation Primary Port is never mentioned. Is this where the Line Printer device appears?

ENDL 32
PDF pg 24, pg 12, 4.2.2, p 4 after fig 3, s 3
Regarding: 'The ADC device server shall issue a NOT READY TO READY TRANSITION Unit Attention ...'

The concept of issuing a unit attention is nonsense unless the function is accomplished using Asynchronous Event Reporting (AER). Since AER is optional in ADT and since AER is obsolete in SAM-3, there would be no way that an ADC device can be required to 'issue' a unit attention condition. Therefore '...issue ... unit attention...' should be '...establish ... unit attention condition...'

ENDL 33
PDF pg 24, pg 12, 4.2.2, p 5 after fig 3, s 2 & s 3
Unit Attentions [s/b] Unit attention conditions [twice, N.B.
capitalization correction]

ENDL 34
PDF pg 24, pg 12, 4.2.2, p 5 after fig 3, s 2
issued [s/b] established

ENDL 35
PDF pg 24, pg 12, 4.2.2, last p on pg, s 2 & s 4
issue appropriate Unit Attentions s/b establish appropriate unit attention
conditions [twice]

ENDL 36
PDF pg 25, pg 13, 4.2.2, 1st p on pg, s 1
What does it mean for sense data to be 'masked'? The cross reference is
too far away from the critical term. Move '(see 4.2.5)' to immediately
following the word 'masked'.

ENDL 37
PDF pg 25, pg 13, 4.2.2, 2nd p on pg, s 1
There are several English definitions for 'present' (e.g., to make a gift
of) none of which are appropriate to a standard. 'present them in' should
be 'return them to application clients'.

ENDL 38
PDF pg 25, pg 13, 4.2.2, 2nd p on pg, s 2 & s 3
flag [s/b] TapeAlert flag [or] flags [s/b] TapeAlert flags [4 times]

ENDL 39
PDF pg 25, pg 13, 4.2.2.1.1, p 1, s 2
When this operation is enabled via the ENABLE field of the SMC Logical
Unit descriptor (see clause 6.2.2.3.2), the data transfer and automation
devices shall contain the objects shown in figure 3, including the
optional bridging manager and local SMC device server.
[s/b]
When this operation is enabled via the ENABLE field of the SMC Logical
Unit descriptor (see clause 6.2.2.3.2), the data transfer and automation
devices shall contain the bridging manager and local SMC device server
objects shown in figure 3.
[Otherwise, a SCSI lawyer could argue that figure 3 applies only when the
operation is enabled.]

ENDL 40
PDF pg 25, pg 13, 4.2.2.1.2, p 1, s 3
task management functions [s/b] task management requests [for consistency
with other clauses]

ENDL 41
PDF pg 26, pg 14, 4.2.2.1.2, list entry b) @ top of pg, s 1 & s 2
UNIT ATTENTION conditions [s/b] unit attention conditions [and] UNIT
ATTENTION condition [s/b] unit attention condition

ENDL 42
PDF pg 26, pg 14, 4.2.2.1.2, list entry b) @ top of pg, s 2
[delete] from it [since it conveys no information that is not already
obvious]

ENDL 43
PDF pg 26, pg 14, 4.2.2.1.2, list entry c) @ top of pg, s 1
Rephrase 'primary interface' to match a label in figure 3.

ENDL 44
PDF pg 26, pg 14, 4.2.2.1.4, p 1, s 2 & p 2, s 1
inquiry data [s/b] standard INQUIRY data [twice]

ENDL 45
PDF pg 26, pg 14, 4.2.2.1.4, p 2, s 2

invoke ... command ... on [s/b] send ... command ... to

ENDL 46
PDF pg 26, pg 14, 4.2.2.1.4, p 3, s 1
invoke NOTIFY DATA TRANSFER DEVICE [s/b] send a NOTIFY DATA TRANSFER DEVICE command

ENDL 47
PDF pg 26, pg 14, 4.2.2.1.4, p 3, s 2
invoke [s/b] send

ENDL 48
PDF pg 30, pg 18, 4.2.5, 1st p on pg, s 1
device's status is masked [s/b] device's true status is not reported to the application client [without this change the definition is recursive] [also, with the definition clarified, the 'i.e. ...' example is not necessary and should be deleted]

ENDL 49
PDF pg 30, pg 18, 4.2.5, 1st p on pg, s 1
failure of the backup [s/b] user application failure [true backup is an important user application, but is it the only one?]

ENDL 50
PDF pg 31, pg 19, 4.2.6, table 5
The table title should include '(part 1 of 2)'. The line at the bottom of the first page should be a double line. The title on the second page should include '(part 2 of 2)'. The top line at the top of the second page should be a double line. The column headings should be repeated at the top of the second page.

ENDL 51
PDF pg 34, pg 22, 5.1, Table 6
The foot matter for the table should include a key defining M and O. Alternatively, mandatory and optional may be spelled out.

ENDL 52
PDF pg 35, pg 23, 5.2, 1st p after table 7, s 2
A value of zero [s/b] An LdFail bit set to zero

ENDL 53
PDF pg 35, pg 23, 5.2, 2nd p after table 7, s 1
The phrase 'bridging status byte' is used nowhere else in the standard. There for 'are collectively known as the bridging status byte and' should be deleted.

ENDL 54
PDF pg 35, pg 23, 5.2, 4th p after table 7, s 1 & s 2
inquiry data [s/b] INQUIRY data [three times]

ENDL 55
PDF pg 35, pg 23, 5.2, 4th p after table 7, s 1
vital product data [s/b] VPD

ENDL 56
PDF pg 36, pg 24, 5.2, 1st on pg, s 2, 2nd p on pg s 1, and 3rd p on pg, s 2
ASC and ASCQ should be in small caps, like they are in table 7. [three times]

ENDL 57
PDF pg 36, pg 24, 5.2, 5th p on pg, s 1
invoke [s/b] send

ENDL 58
PDF pg 36, pg 24, 5.2, 5th p on pg, s 1
since the previous invocation of [s/b] since the most recent processing of

ENDL 59
PDF pg 37, pg 25, 6.1.1, Table 8

The foot matter for the table should include a key defining M and O.
Alternatively, mandatory and optional may be spelled out.

ENDL 60
PDF pg 38, pg 26, 6.1.2, Table 10
Change the double line between the last two rows to a single line. Add a cross reference to 6.1.2.3 in the last row.

ENDL 61
PDF pg 38, pg 26, 6.1.2.1, 6.1.2.2, 6.1.2.3, 6.1.3, & 6.1.5, tables 11, 14, 15, 18, & 23
The absence of a space between the field/bit names (i.e., DU, DS, TSD ...) and the parenthetical field contents is causing me to think that the values are part of the names. Please insert spaces. Note that table 19 in 6.1.4 already has spaces and the information fits satisfactorily in the available space. [5 tables need changing]

ENDL 62
PDF pg 38, pg 26, 6.1.2.1, 6.1.2.2, 6.1.2.3, 6.1.3, & 6.1.5, table 11
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the VHF DATA field.

ENDL 63
PDF pg 38, pg 26, 6.1.2.1, between 2nd & 3rd p after table 11
[insert] See SPC-3 for descriptions of the DU bit, DS bit, TSD bit, ETC bit, TMC field, LBIN bit, and LP bit. These bits and fields shall be set to the values shown in table 11.

ENDL 64
PDF pg 38, pg 26, 6.1.2.1, 1st p after table 12, s 1 & s 2
In 4.2.6, 'e - h' would be written '(e) - (h)'. Please use consistent notation in both subclauses. [2 instances in this paragraph]

ENDL 65
PDF pg 38, pg 26, 6.1.2.1, 1st p after table 12, s 1
SCSI LOAD UNLOAD command [s/b] LOAD UNLOAD command (see SSC-2)

ENDL 66
PDF pg 39, pg 27, 6.1.2.1, note 4
issued by commands to the drive [s/b] caused by commands sent to the drive

ENDL 67
PDF pg 39, pg 27, 6.1.2.1, 4th p after note 4, s 2
as the DTD is attempting [s/b] because the DTD is attempting

ENDL 68
PDF pg 40, pg 28, 6.1.2.1, note 6
This may or may not [s/b] The value of the MThrd bit may or may not

ENDL 69
PDF pg 40, pg 28, 6.1.2.1, 1st p after note 7
[Technical] Does the retrieval of the DTD Primary Port Status log parameters set the IntfC bit to zero regardless of the initiator port retrieving the parameters? The behavior of the IntfC bit in the presence of multiple initiator ports needs to be clarified.

ENDL 70
PDF pg 40, pg 28, 6.1.2.1, 2st p after note 7
(Technical) The behavior of the TAFC bit in retrievals are made from multiple initiator ports needs to be clarified.

ENDL 71
PDF pg 41, pg 29, 6.1.2.2, between 2nd & 3rd p after table 14
[insert] See SPC-3 for descriptions of the DU bit, DS bit, TSD bit, ETC bit, TMC field, LBIN bit, and LP bit. These bits and fields shall be set to the values shown in table 14.

ENDL 72
PDF pg 41, pg 29, 6.1.2.3, table 15
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the DTD

PRIMARY PORT STATUS DATA field.

ENDL 73
PDF pg 41, pg 29, 6.1.2.3, between bottom of page
[insert] See SPC-3 for descriptions of the DU bit, DS bit, TSD bit, ETC bit, TMC field, LBIN bit, and LP bit. These bits and fields shall be set to the values shown in table 15.

ENDL 74
PDF pg 41, pg 29, 6.1.2.3
Every field in a table should have a paragraph describing the contents of that field. The PARAMETER LENGTH and DTD PRIMARY PORT STATUS DATA fields do not have such paragraphs. Add them.

ENDL 75
PDF pg 42, pg 30, 6.1.2.3.1, 1st & 3rd p after table 16
The mention of LIP and AL_PA should be backed up by a reference to the appropriate T11 standard (FC-AL-2 I think). [one instance each for LIP and AL_PA]

ENDL 76
PDF pg 43, pg 31, 6.1.3, p 1, s 3
See table 5 in clause 4.2.6 [s/b] See table 5 in 4.2.6 [the word 'clause' is allowed/required only when the clause number does not contain a period.]

ENDL 77
PDF pg 43, pg 31, 6.1.3, immediately after table 18
[insert] See SPC-3 for a description of the PAGE CODE field.

ENDL 78
PDF pg 43, pg 31, 6.1.3, between 2nd & 3rd p after table 18
[insert] See SPC-3 for descriptions of the DU bit, DS bit, TSD bit, ETC bit, TMC field, LBIN bit, and LP bit. These bits and fields shall be set to the values shown in table 18.

ENDL 79
PDF pg 43, pg 31, 6.1.4, p 1, s 1
which [s/b] that

ENDL 80
PDF pg 43, pg 31, 6.1.4, p 1, s 2
may set the RRQST bit [s/b] may set the RRQST bit to one

ENDL 81
PDF pg 43, pg 31, 6.1.4, p 1, s 3
can [s/b] may

ENDL 82
PDF pg 44, pg 32, 6.1.4, 1st p on pg, s 1
(byte 8) [s/b] (i.e., in byte 8)

ENDL 83
PDF pg 44, pg 32, 6.1.4, 1st p on pg, s 2
procedure for execution [s/b] recovery procedure [there shall be no executions in SCSI, nobody dies here]

ENDL 84
PDF pg 44, pg 32, 6.1.4, 2nd p on pg, s 1
field [s/b] bit

ENDL 85
PDF pg 44, pg 32, 6.1.4, 2nd p on pg, s 1
'Recovery not requested' procedure [s/b] code 00h (i.e., Recovery not requested)

ENDL 86
PDF pg 44, pg 32, 6.1.4, immediately after table 19
[insert] See SPC-3 for a description of the PAGE CODE field and PAGE LENGTH field.

ENDL 87
PDF pg 44, pg 32, 6.1.4, between 2nd & 3rd p after table 19
[insert] See SPC-3 for descriptions of the DU bit, DS bit, TSD bit, ETC bit, TMC field, LBIN bit, and LP bit. These bits and fields shall be set to the values shown in table 19.

The PARAMETER LENGTH field indicates the number of recovery procedure bytes that follow.

ENDL 88
PDF pg 44, pg 32, 6.1.4, table 20
The table title should include '(part 1 of 2)'. The line at the bottom of the first page should be a double line. The title on the second page should include '(part 2 of 2)'. The top line at the top of the second page should be a double line. The column headings should be repeated at the top of the second page.

ENDL 89
PDF pg 45, pg 33, 6.1.5, p 1, s 3
Support of [s/b] Support for

ENDL 90
PDF pg 46, pg 34, 6.1.5, 1st p on pg, s 1
Page Code and Page Length fields [s/b] PAGE CODE field and PAGE LENGTH field [with field names in small caps]

ENDL 91
PDF pg 46, pg 34, 6.1.5, end of subclause
[move table 22 and the paragraph that introduces it to after table 23.]

[after that insert] See SPC-3 for descriptions of the DU bit, DS bit, TSD bit, ETC bit, TMC field, LBIN bit, and LP bit. These bits and fields shall be set to the values shown in table 23.

The PARAMETER LENGTH field indicates the number of bytes in the DEVICE STATISTICS DATA COUNTER field that follows.

ENDL 92
PDF pg 46, pg 34, 6.2.1, p 2, s 1
are in SPC-2 [s/b] are described in SPC-3 [The mode parameter list itself is in the device, or on the wire; SPC-3 contains only a description.]

ENDL 93
PDF pg 47, pg 35, 6.2.1, table 24
[Technical] Table 24 is neither fish nor fowl, and thus leaves the ADC status of many mode pages unclear. Are codes 00h through 0Ch and 0Fh through 1Fh reserved, as specified in SPC-2, or what? Can you really have a device that does not support the Control mode page? What about the Disconnect-Reconnect Mode page?

ENDL 94
PDF pg 47, pg 35, 6.2.2, table 25
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the Mode Parameters bytes.

ENDL 95
PDF pg 47, pg 35, 6.2.2, immediately after table 25
[insert] See SPC-3 for a description of the PS bit, SPF bit, PAGE CODE field, SUBPAGE CODE field, and PAGE LENGTH field.

ENDL 96
PDF pg 48, pg 36, 6.2.2.1, table 27
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the WORLD WIDE NODE NAME field.

ENDL 97
PDF pg 48, pg 36, 6.2.2.1, table 27
All row lines in data structure tables should extend at least one byte into the field. This is not the case for one of the row lines between

bytes 8 and 15.

ENDL 98
PDF pg 48, pg 36, 6.2.2.1, immediately after table 27
[insert] See SPC-3 for a description of the PS bit, SPF bit, PAGE CODE field, SUBPAGE CODE field, and PAGE LENGTH field.

ENDL 99
PDF pg 48, pg 36, 6.2.2.1
Every field in a table should have a paragraph describing the contents of that field. The WORLD WIDE NODE NAME field does not have such a paragraph. Add one.

ENDL 100
PDF pg 48, pg 36, 6.2.2.2
[Insert] 6.2.2.2.1 Introduction [to eliminate hanging text]

ENDL 101
PDF pg 49, pg 37, 6.2.2.2, table 29
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the DTD PRIMARY PORT DESCRIPTOR field.

ENDL 102
PDF pg 49, pg 37, 6.2.2.2, immediately after table 29
[insert] See SPC-3 for a description of the PS bit, SPF bit, PAGE CODE field, SUBPAGE CODE field, and PAGE LENGTH field.

The DTD primary port descriptor is described in this subclause.

ENDL 103
PDF pg 49, pg 37, 6.2.2.2.1
It appears to me that this subclause and particularly table 30 are not describing the 'descriptor header'. The are describing the whole descriptor.

ENDL 104
PDF pg 49, pg 37, 6.2.2.2.1, table 30
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the DTD PRIMARY PORT DESCRIPTOR PARAMETERS field.

ENDL 105
PDF pg 49, pg 37, 6.2.2.2.1, table 31
Add a Reference column to this table.

ENDL 106
PDF pg 49, pg 37, 6.2.2.2.1, immediately after table 31
[insert]The ADDITIONAL DESCRIPTOR LENGTH field indicates the number of descriptor bytes that follow.

ENDL 107
PDF pg 50, pg 38, 6.2.2.2.2, table 32
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the PORT NAME field.

ENDL 108
PDF pg 52, pg 40, 6.2.2.2.3, table 36, table footnote
Remove the dash in table footnote a.

ENDL 109
PDF pg 53, pg 41, 6.2.2.3, table 37
Per 03-127r1, the '(MSB)' and '(LSB)' should be removed from the LOGICAL UNIT DESCRIPTORS field.

ENDL 110
PDF pg 53, pg 41, 6.2.2.3, table 37
All row lines in data structure tables should extend at least one byte into the field. This is not the case for one of the row lines between bytes 8 and n. In fact, why is the format of table 37 different from the format of table 30?

ENDL 111
PDF pg 53, pg 41, 6.2.2.3, immediately after table 37
[insert] See SPC-3 for a description of the PS bit, SPF bit, PAGE CODE field, SUBPAGE CODE field, and PAGE LENGTH field.

The logical unit descriptor is described in this subclause.

ENDL 112
PDF pg 53, pg 41, 6.2.2.3.1
The introductory text should be on the same page as table 38.

ENDL 113
PDF pg 54, pg 42, 6.2.2.3.1, table 38
[Technical] How is this 2-byte logical unit number related to the 8-byte logical unit number format specified in SAM-3? My guess is that RMC devices are limited to being the lowest level in a hierarchy and thus need only 2-bytes to specify their logical unit number. But whatever the reason, the relationship to SAM-3 logical unit numbers needs to be spelled out in the description of this field.

ENDL 114
PDF pg 54, pg 42, 6.2.2.3.1, 2nd p after table 38, s 2
Peripheral Device Type [s/b] PERIPHERAL DEVICE TYPE [small caps] [to match SPC-3]

ENDL 115
PDF pg 55, pg 43, 6.2.2.3.1, 2nd p on pg, s 2
Sense Key [s/b] sense key

ENDL 116
PDF pg 57, pg 45, 6.2.2.3.2, table 41
[Technical] How is this 2-byte logical unit number related to the 8-byte logical unit number format specified in SAM-3? My guess is that SMC devices are limited to being the lowest level in a hierarchy and thus need only 2-bytes to specify their logical unit number. But whatever the reason, the relationship to SAM-3 logical unit numbers needs to be spelled out in the description of this field.

ENDL 117
PDF pg 58, pg 46, 6.2.2.3.3, table 42
[Technical] How is this 2-byte logical unit number related to the 8-byte logical unit number format specified in SAM-3? My guess is that ADC devices are limited to being the lowest level in a hierarchy and thus need only 2-bytes to specify their logical unit number. But whatever the reason, the relationship to SAM-3 logical unit numbers needs to be spelled out in the description of this field.

****

Comments attached to No ballot from Rob Elliott of
Hewlett Packard Co.:

HP 1
PDF 2
Points of Contact page
E
Company: Tivoli Email: gpenokie@tivoli.com
Should be IBM and gop@us.ibm.com.

HP 2
PDF 2
Points of Contact page
E
INCITS Secretariat missing bold and underline
Highlight: Make bold & underline

HP 3
PDF 2

Points of Contact page
E
Document Distribution missing bold and underline
Highlight: Make bold & underline

HP 4
PDF 5
NCITS.***200x
E
should be INCITS
Change

HP 5
PDF 6
2002
E
Should be 2003

HP 6
PDF 7
3.2
E
Some symbols and abbreviations incorrect

HP 7
PDF 11
NCITS.***:
E
Should be INCITS

HP 8
PDF 13
1 Scope a)
E
a should be an

HP 9
PDF 13
Figure 1 - General document structure of SCSI
E
Delete Common Access Method

HP 10
PDF 13
Extensions?
E
This is just another command set for a certain type of LU, not extensions to
anything

HP 11
PDF 13
class?
E
?

HP 12
PDF 13
class?
E
?

HP 13
PDF 13
Letter list, item c)
E
The draft standard defines more than command for management.
Change 'commands' to 'commands and parameters'

HP 14
PDF 14

Standards
E
I recommend deleting the list of standards, which is doomed to be immediately
out of date.

HP 15
PDF 14
Interconnects list
E
ADP no longer exists

HP 16
PDF 14
2nd paragraph
E
Typo at end of sentence
Delete 'Physical Interconnects:'

HP 17
Q
Should drive behaviour relating to host SCSI load command issued when library
has seated the cartridge but not threaded should be part of spec or not

HP 18
PDF 27
4.2.3 Load and unload nominal states
Q
Are the bit states and sequence guaranteed?a I'm not sure of the value of recording so many different states with many being transitory and of very short duration.a Is there guidance for automation vendors as to which states to look out for?a Is it worth differentiating transitory states from static states?

HP 19
PDF 15
Architecture Model
E
SAM-3 missing

HP 20
PDF 17
3.1.1 accessible state
E
Replace 'would respond to' with 'is capable of responding'

HP 21
PDF 17
3.1.3 asynchronous event notification
E
"Delete this, as it is not used in this document, and is obsolete in SCSI architecture"

HP 22
PDF 17
3.1.8 contingent allegiance
E
Add (CA) before

HP 23
PDF 17
3.1.9 data transfer device:
E
Add (DTD) before

HP 24
PDF 17
3.1.9 data transfer device
E

"After oa removable medium command seto add o(e.g., SSC-2 or MMC-4)o"

HP 25
PDF 17
3.1.2 application client
E
Add . after standard

HP 26
PDF 17
3.1.16 I_T_L_Q nexus
E
Delete oThis relationship replaces the prior I_T nexus or I_T_L nexus.o That is a parallel SCSI-ism.

HP 27
PDF 17
3.1.15 I_T_L nexus
E
Delete oThis relationship replaces the prior I_T nexus.o That is a parallel SCSI-ism.

HP 28
PDF 17
3.1.10 data transfer element
E
This term is not used anywhere. Delete/

HP 29
PDF 17
3.1.13 indication:
E
This term is not used anywhere (with this meaning). Delete

HP 30
PDF 17
3.1.1 accessible state
E
Check use of onon-accessible stateo vs onot accessibleo

HP 31
PDF 17
3.1.6 bridging manager:
E
Add oSee 4.2.2.1.o at end.

HP 32
PDF 17
3.1.5 automation application client
E
Add oSee 4.2.1.o at end

HP 33
PDF 17
3.1.17 local SMC device server:
E
Add oSee 4.2.2.1.o at end.

HP 34
PDF 18
3.1.33 service delivery port:
E
Delete. Obsolete in SCSI architecture. Use SCSI target port instead.

HP 35
PDF 18
3.1.28 removable medium commands
E
"3.1.28 removable medium commands (RMC) device server make the definition for

removable medium commands (RMC) stand alone. Then define RMC device server separately if needed (I think it can dropped) removable medium commands (RMC):A generic term for a command set supporting removable media (e.g., SSC-2
or MMC-4)."

HP 36
PDF 18
3.1.34 target
E
Delete the target definition - use target port or target device everytwhere

HP 37
PDF 18
3.1.25 primary
E
The main command and data interface is too generic. Change to primary port primary target port

HP 38
PDF 19
3.2 Symbols and abbreviations
E
"Check font on the greater than or equal to sign. In PDF it displays as an S with a mark above it. If unused, just delete it."

HP 39
PDF 19
3.2 Symbols and abbreviations
E
"Check font on - approximately symbol. If unused, just delete it."

HP 40
PDF 19
3.2 Symbols and abbreviations
E
"Check font in u or LE less than or equal to symbol. If unused, just delete it."

HP 41
PDF 19
3.2 Symbols and abbreviations
E
"Check font in + or NE not equal symbol. If unused, just delete it."

HP 42
PDF 19
3.2 Symbols and abbreviations
E
Delete oCRC Cyclic Redundancy Checko - it is not used

HP 43
PDF 19
3.2 Symbols and abbreviations
E
Add MAM Media Auxiliary Memory which is used several times

HP 44
PDF 19
3.2 Symbols and abbreviations
E
Delete the unused oISI Intersymbol interferenceo

HP 45
PDF 19
3.2 Symbols and abbreviations
E
"For each acronym that has a definition, add a cross reference to 3.1.xx"

HP 46

PDF 19
3.2 Symbols and abbreviations
E
Delete: SCSI-2 Small Computer System Interface-2

HP 47
PDF 19
3.2 Symbols and abbreviations
E
Delete:DUT Device under test

HP 48
PDF 19
3.2 Symbols and abbreviations
E
Delete unused oDTE Data transfer elemento

HP 49
PDF 31
4.2.6 Tape Alert application client interface
I
"TapeAlert flags.a I found many of the flag names insufficiently specific,
e.g. ""media"", ""media life"", ""no removal"".a There are many other
examples.a If we want ISV's to take TA flags seriously, then the flagsawill
need to be specific and drive consistent ISV actions for all drive types.a
I'm
not sure if this list comes from the SCSI spec or whether it is ADI
specific."

HP 50
PDF 20
3.3.5 may not
E
change indicates to indicate

HP 51
PDF 20
3.3.6 obsolete
E
Remove space after obsolete

HP 52
PDF 22
4.1 Overview
E
Change a to an sequence number: 2

HP 53
PDF 22
4.2.1 Automation drive interface overview
E
"Change owillo to shall, should, or may, or perhaps usually/typically.Change
contain to contains if appropriate."

HP 54
PDF 22
4.2.1 ADI overview
E
Delete will and change contain to contains

HP 55
PDF 22
4.2.1 ADI overview
E
In oautomation application cliento (see 3.1.5). Remove the quotes and the
3.1.5 reference

HP 56

PDF 22
4.2.1 Automation drive interface overview
T
The parenthetic (automation) implies itAs a synonym for media changer. IAd like to see the term oautomationo defined better. Describe why isnAt this just
another set of features in the media changer command set (SMC-2).

HP 57
PDF 22
4.2.1 ADI overview
E
Change application client to initiator port

HP 58
PDF 22
4.2.1 ADI overview
E
Use an a)b)c) list

HP 59
PDF 22
4.2.1 Automation drive interface overview
T
Need more of a definition for oData Transfer Deviceo. Is the oremovable medium
device used for data transfer, such as a tape driveo mentioned in the previous
sentence?

HP 60
PDF 22
4.2.1 ADI overview
E
Replace owillo with a better term

HP 61
PDF 22
4.2.1 ADI overview
E
data transfer devices. An acronym was just introduced for this term. It should
be used almost everywhere or not at all.

HP 62
PDF 22
4.2.1 ADI overview
T
Change oAutomation/Drive Interface - Transport Protocol (ADT) port.o to o...target porto. Or better clarify that it can be both a target port and an initiator port. This sentence only refers to its target port role. Another sentence should describe its initiator port role more directly.

HP 63
PDF 22
4.2.1ADI overview
E
Change primary ports to primary target ports

HP 64
PDF 34
Table 6, 7th body row
E
Mode sense

HP 65
PDF 22
4.1, 1st paragraph, 1st sentence
E
The sentence mixes abstraction levels. ADC may specify the behaviour of a

logical unit, but ADI is an interface; it relates an application client to a device server.
Change 'automation drive interface' to 'automation drive interface - commands'

HP 66
PDF 23
4.2.2 Device server interaction
E
Fix hanging paragraph. Since there is a 4.2.2.1, there cannot be text at the 4.2.2 level. Perhaps move the text into a new 4.2.2.1 Device server interaction overview section.

HP 67
PDF 23
4.2.1 Automation drive interface overview
E
Move oFigure 2 shows a hardware view of the relationship between the automation device and the data transfer devices, with the automation drive interface in use.o above the figure.

HP 68
PDF 23
Figure 2 - Automation and DTD relationship
Q
What does the oAutomation Deviceo cover? Is it the box on the bottom, or a bigger box not shown?

HP 69
PDF 23
Figure 2 - Automation and DTD relationship
T
Add the automation application client, since it was just discussed in the text.

HP 70
PDF 23
4.2.2 Device server interaction
T
Add rules for where the SMC Device Server (if present) is accessible.

HP 71
PDF 23
4.2.2 Device server interaction
E
Sort the RMC, ADC, and SMC rules in some manner. Either list RMC then ADC then
SMC, or list DTD primary port rules first and ADT port rules second.

HP 72
PDF 23
Figure 2 - Automation and DTD relationship Target Port
E
Highlight

HP 73
PDF 23
Figure 2 - Automation and DTD relationship Initiator Port
E
Highlight

HP 74
PDF 23
Figure 2 - Automation and DTD relationship
E
Place a oData Transfer Deviceo label on each box

HP 75
PDF 23
Figure 2 - Automation and DTD relationship

E
DTD Primary Port(s) Show more than one port to agree with the (s)

HP 76
PDF 23
4.2.2 Device server interaction
E
After oillustrates a data transfer deviceo add oand an automation deviceo
with
its automation application client and remote SMC device server

HP 77
PDF 24
4.2.2 Device server interaction
E
Change odoes noto to oshall noto or omay notA or oneed noto depending on the
intent

HP 78
PDF 24
4.2.2 Device server interaction
E
DonAt capitalize Unit Attentions.

HP 79
PDF 24
Figure 3 - Device server model
T
Remote/Local not discussed until 4.2.2.1.1. Need to introduce in the text
above this figure

HP 80
PDF 24
4.2.2 Device server interaction
E
DonAt capitalize Unit Attention. Phrase as ADC device server shall create a
unit attention condition with an additional sense code of NOT READY TO READY
TRANSITION

HP 81
PDF 24
4.2.2 Device server interaction
T
Clarify obased ono

HP 82
PDF 25
5.2.2.1 ADI Bridging
E
ADI is used here for the first time, but the acronym has never been
introduced.

HP 83
PDF 25
4.2.2.1.2 Local SMC device server operation
E
Add ; to each row. Add and or or on the second-to-last row. Add a period on
the last row

HP 84
PDF 25
4.2.2.1.1 ADI bridging introduction
E
Change (see clause n.n) to (see n.n) everywhere

HP 85
PDF 25
4.2.2.1.2 Local SMC device server operation

T
oBecause the remote SMC device server lacks information about the initiator port which originated a request, it cannot implement the full set of commands.o Why donAt you pass that information over ADT and avoid this restriction?

HP 86
PDF 25
4.2.2.1.2 Local SMC device server operation
T
Access Controls and Alias commands also require initiator identifier knowledge. Asymmetric access (target port groups) and Extended Copy may also
present problems

HP 87
PDF 25
4.2.2.1.2 Local SMC device server operation
T
How does the local SMC device server handle INQUIRY VPD data requesting page 83h - namely the relative target port identifier and target port identifier/name (association = 1). Are they provided with respect to the local
device server in the DTD or the remote device server in the automation device?
Which protocol identifier field gets filled in? If the primary interface is iSCSI, the INQUIRY data is going to have to change length.

HP 88
PDF 25
4.2.2.1.2 Local SMC device server operation
T
How does the local SMC device server handle INQUIRY for page 83h with association = 2 (target device)? Does it report about the DTD or the automation device

HP 89
PDF 25
4.2.2.1.1 ADI bridging introduction
E
Delete interface

HP 90
PDF 26
4.2.2.12 Device server interactions
E
End each list item with ; End item b with ; and

HP 91
PDF 26
4.2.2.1.2 Local SMC device server operation
E
Change initiators to oinitiator portso

HP 92
PDF 26
4.2.2.1.2 Local SMC device server operation
T
oThe remote SMC device server shall not report any protocol-specific mode pages.o This can only be true when accessing it over ADT, assuming ADT doesnAt
define any such pages. Over the primary port, it might have to. Note there could also be protocol-specific log pages.

HP 93
PDF 26
4.2.2.1.3 Bridging manager operation
E
After odescriptoro add of the ADC Device Configuration mode page

HP 94
PDF 26
4.2.2.1.3 Bridging manager operation
E
Add ocorrespondingo before local. Multiple SMC/ADC pairs should be
supported.

HP 95
PDF 26
4.2.2.1.4 Caching SMC data and status
E
Change inquiry to INQUIRY (at least one other time on this page too)

HP 96
PDF 26
4.2.2.1.4 Caching SMC data and status
E
CACHE should be smallcaps (several times)

HP 97
PDF 26
4.2.2.1.4 Caching SMC data and status
T
This seems risky; there needs to be a very explicit list of exactly what is
subject to caching and what is not. The automation application client then
knows exactly when to send the command, and the local SMC device server
knows
what exactly to cache.

HP 98
PDF 26
4.2.2.1.2 Local SMC device interface
E
Change primary interface to primary port (or primary target port)

HP 99
PDF 27
4.2.3 Load and unload nominal states
E
After odatao add oin the DTD Status log pageo

HP 100
PDF 27
4.2.3 Load and unload nominal states
E
Delete oat a minimum.o

HP 101
PDF 27
4.2.3 Load and unload nominal states
E
Change reported to supported

HP 102
PDF 27
4.2.3 Load and unload nominal states, Table 1 - Load sequence nominal states
E
Add a column header oField in the VHFD log parameter of the DTD Status log
pageo over all the bits

HP 103
PDF 27
4.2.3 Load and unload nominal states, Table 1 - Load sequence nominal states
E
Left justify oLoad Sequence Stateo to match the entries below

HP 104
PDF 27
4.2.3 Load and unload nominal states
Q

What does onominalo mean? This usage doesnAt seem to match its usual definition

HP 105
PDF 28
Table 3 - Unload sequence nominal states
E
Left justify oUnload Sequence Stateo to match entries below

HP 106
PDF 40
Last paragraph
Q
"at least one TapeAlert state flag has changed from its previous value since the last retrieval of the TapeAlert flags".a Is this referring to retrieval of
the ADI interface TA flag set (i.e. independent of host interface retrievals)?a Can multiple automation controllers log into the drive?a If so,
is there a set of pages for each automation controller."

HP 107
PDF 29
4.2.3 Load and unload nominal states
E
Delete oToo

HP 108
PDF 29
4.2.4 Error reporting
E
Table 4 - Error conditions and sense keys Change initiator to initiator port

HP 109
PDF 29
4.2.4 Error reporting
E
Change initiator to application client

HP 110
PDF 29
4.2.4 Error reporting
E
Change ofollowing conditionso with conditions listed in table 4

HP 111
PDF 29
Table 4 - Error conditions and sense keys
E
Left justify oSense Keyo or center all the entries below

HP 112
PDF 29
Table 4 - Error Conditions and Sense Keys
E
Lowercase oConditions and Sense Keyso

HP 113
PDF 30
paragraph 2
E
statuses should be status

HP 114
PDF 30
4.2.5 Sense data masking
E
Use an a)b)c) list

HP 115

PDF 30
4.2.5 Sense data masking
T
Add cross reference to where SM_TOV is defined. ItAs mentioned as vendor specific at the end of this section - is that all? It seems like it should have a more formal home.

HP 116
PDF 30
4.2.6 Tape Alert application client interface
E
Change Tape Alert to TapeAlert (or vice versa)

HP 117
PDF 31
4.2.6 Tape Alert application client interface
E
In o5.lo delete the l.

HP 118
PDF 31
Table 5 - Additional TapeAlert state flag reset conditions
E
Center all the entries under Flag

P 119
PDF 31
Table 5 - Additional TapeAlert state flag reset conditions
E
Left justify Name

HP 120
PDF 31
Table 5 - Additional TapeAlert state flag reset conditions
E
Left justify Additional reset condition

HP 121
PDF 43
6.1.3 TapeAlert response log page
Q
Is there provision for the expansion of the TA flags page?a I think 64 may be
insufficient.

HP 122
PDF 32
4.2. 7 Medium Auxiliary Memory attributes
Q
What is the point of this limitation?

HP 123
PDF 32
Table 5 - Additional TapeAlert state flag reset conditions
E
Add (part 1) and (part 2) to the table headers since it is broken onto two pages

HP 124
PDF 32
4.2.6 TapeAlert application client interface
E
Change specification to standard

HP 125
PDF 32
4.2.7 Medium Auxiliary Memory attributes
T
Add a cross reference to SPC-3 and the READ ATTRIBUTE and/or WRITE ATTRIBUTE command names somewhere in this section

HP 126
PDF 32
4.2.8 Enabling and disabling DTD primary ports
E
To oADC device specific mode pageo fix capitalization and add cross
reference

HP 127
PDF 44
Recovery procedure
I
Good idea.a I think the descriptions need to be more specific/detailed to
avoid ambiguity, e.g. ""Push medium""??, ""Issue LOAD command"" - is this
referring to an ADI load, or a message to be displayed on the OCP, or a
message to be passed on to the ISV application/driver?"

HP 128
PDF 33
4.2.8 3rd Paragraph
T
What status should be returned?

HP 129
PDF 33
4.2.10 Sequential mode operation
E
End each list item with ; End the second-to-last with o; ando

HP 130
PDF 33
4.2.9 Device reservations and command behavior
E
Change 1)2)3) to a)b)c) and use proper ; endings

HP 131
PDF 33
4.2.9 Device reservations
E
Change initiator(s) to initiator port(s)

HP 132
PDF 33
4.2.8 Enabling and disabling DTD primary ports
T
Implicitly is a FC concept. This text should be generic or given as a FC
example.

HP 133
PDF 33
4.2.10 Sequential mode operation
E
host initiated unload should be small caps (and probably abbreviated)

HP 134
PDF 34
Table 6
T
Why is the writebuffer command optional, since it is needed for downloading?

HP 135
PDF 34
5 Commands for ADI devices
T
Need to have a column added to SPC-3As operation code column that agrees
with
this table May need to have NOTIFY DATA TRANSFER DEVICE added to SPC-3As
list
of SERVICE ACTION OUT (16) assignments.

HP 136
PDF 34
5.1 Summary of commands
T
Table 6 - Command set for automation drive interface Unless this command set is special, it should support all the commands that are available in every other command set. (it might be good to drop support for the scc Commands):
Add:
ACCESS CONTROLS IN ACCESS CONTROLS OUT
CHANGE ALIASES
PERSISTENT RESERVE IN
PERSISTENT RESERVE OUT
REDUNDANCY GROUP IN
REDUNDANCY GROUP OUT
REPORT ALIASES
REPORT DEVICE IDENTIFIER
REPORT SUPPORTED TASK MANAGEMENT FUNCTIONS
SET DEVICE IDENTIFIER
SPARE IN
SPARE OUT
VOLUME SET IN
VOLUME SET OUT

HP 137
PDF 34
5.1 Summary of commands
E
Table 6 - Command set Change SEND DIAGNOSTICS to SEND DIAGNOSTIC

HP 138
PDF 34
5.1 Summary of commands
Q
othe command set is supportedo If which command set is supported? ADC or the one which defines the command? By which logical unit? The ADC logical unit or
the RMC logical unit?

HP 139
PDF 47
Table 24 u Mode page codes
Q
Is there provision for setting/reading the drive clock? or real-time clock? (similar to the set/get_time ACI commands)

HP 140
PDF 35
5.2 NOTIFY DATA TRANSFER DEVICE command
E
Combine rows 6..14 into two rows

HP 141
PDF 36
5.2 NOTIFY DATA TRANSFER DEVICE command
E
Use small caps for ASC and ASCQ (several times in this section)

HP 142
PDF 36
5.2 NOTIFY DATA TRANSFER DEVICE command
E
Change initiators to initiator ports

HP 143
PDF 36
5.2 NOTIFY DATA TRANSFER DEVICE command
E
Change initiator to initiator port

HP 144

PDF 36
5.2 NOTIFY DATA TRANSFER
Q
"pending unit attention conditiono is unclear and seems CA-specific. In an
autosense protocol, isnAt the UA pending until reported?"

HP 145
PDF 36
5.2 NOTIFY DATA TRANSFER
T
invocation or completion? DonAt want to queue up lots of these

HP 146
PDF 37
6.1.2 DTD Status log page
E
Fix hanging paragraph. Since there is a 6.1.21, there cannot be text at the
6.1.2 level. Perhaps move the text into a new 6.1.2.1 DTD Status log page
overview section.

HP 147
PDF 37
6.1.1 Log parameters overview
E
Change target to target device

HP 148
PDF 37
6.1.1 Log parameters overview
T
Table 8 - Log page codes Probably need to add: 06h, 07h, 0Bh, 0Dh, 0Eh, 0Fh,
10h, 2Fh which are available to every other device type

HP 149
PDF 37
Table 8 - Log page codes
E
Change Page Code to Log page code

HP 150
PDF 38
6.1.2.1 Very High Frequency Data log parameter
E
Delete (MSB) and (LSB) from the VHF DATA field. It has subfields.

HP 151
PDF 38
6.1.2.1 Very High Frequency Data log parameter
E
Table 12 - VHF Data Change byte numbers 8,9,10,11 to 0,1,2,3

HP 152
PDF 38
6.1.2.1 Very High Frequency Data log parameter
E
Change oRefer to table 12 for a description of the VHF DATA.o To oThe VHF
DATA
field contents are defined in table 12.o

HP 153
PDF 38
6.1.2.1 Very High Frequency Data log parameter
E
Table 11 - Very High Frequency Data log parameter - Add spaces before each
bit
assignment in: DU(0) DS(1) TSD(0) ETC(0) TMC(0) LBIN(1) LP(1) A few tables
in
the document have spaces, others donAt.

HP 154

PDF 38
6.1.2 DTD Status log page
Q
Table 10 - DTD Status parameter codes - What about the unlisted parameter codes? Reserved?

HP 155
PDF 38
6.1.2 DTD Status log page
E
Table 10 - DTD Status parameter codes - Add reference to where DTD primary port status parameter defined, 6.1.2.3

HP 156
PDF 38
6.1.2.1 VHFD log parameter
E
Need to decide whether to use mixed-case small caps or not. If so, abbreviation acronyms like HIU in this table or DU in the previous table should always use all caps or all small caps consistently. (I recommend just using small caps and not mixed-case small caps)

HP 157
PDF 38
6.1.2.1 VHFD log parameter
E
load should be smallcaps

HP 158
PDF 38
6.1.2.1 VHFD log parameter
Q
log parameter of the RMC or ADC either of them?

HP 159
PDF 39
Note 4
T
How should the WRTP bit be set when handling WORM cartridges.

HP 160
PDF 39
6.1.2.1
T
If the RAA value doesn't reflect prevent media removal how do you stop unloading prevented drives?

HP 161
PDF 51
6.2.2.2.3 Parallel SCSI descriptor parameters
Q
Presumably there is provision for setting WWN of SCSI devices?

HP 162
PDF 40
paragraph 2
T
The text describing the DACC bit implies it'll be set regardless of the outcome of the Load operation. After successfully loading a cleaning cartridge
I wouldn't expect the DACC bit to be set yet the spec. implies it would.

HP 163
PDF 40
Tabel13
T
Should this table reflect only physical tape motion? Tape devices can read/write large amounts of data without any tape motion so does the library want to know the tape is moving or that the drive is read/writing?

HP 164
PDF 40
"6.1.2.1 VHFD log parameter, Note 6"
E
Replace oReadyo with oa status of GOODo (several times)

HP 165
PDF 40
Table 13 - Tape Motion Status
E
Replace Status with Tape Motion Status

HP 166
PDF 41
6.1.2.3 DTD Primary Port Status log parameter(s)
T
Add a one-sentence paragraph introducing the DTD Primary Port Status Data
field

HP 167
PDF 41
6.1.2.3 DTD Primary Port Status log parameter(s)
E
Table 15 - DTD Primary Port Status log parameter Delete the (MSB) and (LSB)
labels from the DTD Primary Port Status Data field, since it has subfields.

HP 168
PDF 41
6.1.2.3 DTD Primary Port Status log parameter(s)
E
Fix hanging paragraph.

HP 169
PDF 43
(Global)
T
How about some SAS data structures? What is the schedule for ADC-2?

HP 170
PDF 44
6.1.4 Requested Recovery log page
E
Keep Table 20 on one page

HP 171
PDF 44
Table 20 - Recovery procedures
E
Change Recovery Action to Recovery Procedure

HP 172
PDF 45
6.1.5 Device Statistics log page
T
Replace with a LU independent method of reporting these parameters.
Consider
using the Target Logs W-LUN instead.

HP 173
PDF 46
6.2.1
E
There is a small paragraph that reads: "The mode paramater list, includinga,
are in SPC-22"
It's should read "a.are [defined] in SPC-2" or maybe expand the paragraph a
bit more

HP 174
PDF 46
6.1.5 Device Statistics log page

T
Add a description of the Device Statistics Data Counter field.

HP 175
PDF 46
6.1.5 Device Statistics log page Table 23 - Device Statistics log parameter
E
Delete the (MSB) and (LSB) labels from the Device Statistics Data Counter field. It must have subfields if it is variable length.

HP 176
PDF 46
6.2.1 Mode parameters overview
E
Change ois contained in the mode parameter header. This field is reservedo to oin the mode parameter header is reservedo Similar text occurs 3 times in this section

HP 177
PDF 47
6.2.2 ADC Device Configuration mode page Table 25 - ADC Device Configuration mode page
E
Delete the (MSB) and (LSB) labels from the Mode parameters field.

HP 178
PDF 47
6.2.2 ADC Device Configuration mode page
E
Fix hanging paragraphs.

HP 179
PDF 47
6.2.2 ADC Device Configuration mode page
E
Change osub-pageo and osub pageo to osubpageo

HP 180
PDF 47
6.2.2.1 Node descriptor sub page
E
Change oThis mode sub-pageo to oThe Node Descriptor subpageo

HP 181
PDF 47
6.2.2.1 Node descriptor sub page
E
Change oNode descriptor sub pageo to Node Descriptor subpageo

HP 182
PDF 47
6.2.1 Mode parameters overview Table 24
T
Probably need to add: 00h, 02h, 0Ah, 18h, 19h, 1Ch, 20h-3Eh

HP 183
PDF 48
6.2.2.1 Node descriptor subpage Table 27 - Node descriptor sub page
E
Delete the 2 rows between 8 and 15

HP 184
PDF 48
6.2.2.2 DTD Primary Port descriptor sub-page
E
Fix hanging paragraphs.

HP 185

PDF 48
6.2.2.1 Node descriptor sub page
T
This subpage is FC specific. Make it generic and rename it. (it may employ protocol-specific fields if appropriate) Which name is it modifying? Put it in
SCS VPD page 83h terms - the logical unit name, target port identifier/name, or target device name.

HP 186
PDF 49
Table 31
T
SAS not included. Similarly there are specific Mode pages to configure SAS ports.

HP 187
PDF 49
6.2.2.2. DTD Primary Port descriptor sub-page Table 29 - DTD Primary Port descriptor sub-page
E
After PAGE LENGTH, add o(n - 3)o

HP 188
PDF 49
6.2.2.2. DTD Primary Port descriptor sub-page
T
Add a paragraph describing the DTD Primary Port Descriptor field.

HP 189
PDF 49
6.2.2.2. DTD Primary Port descriptor sub-pageTable 29 - DTD Primary Port descriptor sub-page
E
Delete the (MSB) and (LSB) labels from the DTD Primary Port Descriptor field since it has subfields.

HP 190
PDF 49
6.2.2.2.1DTD Primary Port descriptor header Table 30 - DTD Primary Port descriptor header
E
Delete the (MSB) and (LSB) labels from the DTD Primary Port Descriptor Parameters since it has subfields.

HP 191
PDF 49
6.2.2.2.1 DTD Primary Port descriptor header Table 31 - Port type descriptors
E
Make the Hs lower case in OOH 01H 02H u FFH

HP 192
PDF 49
6.2.2.2.1 DTD Primary Port descriptor header
T
oThe PORT TYPE indicates the type of protocol supported by the port. Values for this field are a subset of the protocol identifiers defined in SPC-2. Legal values for this field can be found in table 31.o Rename this to PROTOCOL
IDENTIFIER and use the values exactly as defined in SPC-3. Delete Table 31.

HP 193
PDF 49
6.2.2.2.1 DTD Primary Port descriptor header
E
Change port to target port (Several times)

HP 194
PDF 49

6.2.2.2.1 DTD Primary Port descriptor header
E
Change device to target device (or maybe DTD)

HP 195
PDF 49
6.2.2.2.1 DTD Primary Port descriptor header
T
RELATIVE TARGET PORT should point to SPC-3 for its definition (I assume the same values are meant) rather than redefine it here (potentially incorrectly or incompletely). SPC-3As r.t.p. is a 4 byte value, so a comment that a maximum of 255 are supported is in order. (or, make this field 4 bytes)

HP 196
PDF 50
6.2.2.2.2
T
When we did the crossroads bridges, we had to have the concept of current setting and future setting and what the alpa was actually set to. Which one is set in the FC-AL LOOP ID? If there is a conflicting address the current address on fibre the address switches to a non conflicting address. I think that we might need at least 2 fields for this alpa.

HP 197
PDF 50
6.2.2.2.1 DTD Primary Port descriptor header Table 32 - Fibre Channel descriptor parameters
E
PORT NAME to FIBRE CHANNEL WORLD WIDE PORT NAME and remove the (MSB) and (LSB)
labels.

HP 198
PDF 50
6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port Sequence number: 3

HP 199
PDF 50
6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port Sequence number: 4

HP 200
PDF 50
6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port Sequence number: 5

HP 201
PDF 50
6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port Sequence number: 6

HP 202
PDF 50
6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port Sequence number: 7

HP 203
PDF 50
6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port Sequence number: 8

HP 204
PDF 50

6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port Sequence number: 9

HP 205
PDF 50
6.2.2.2.2 Fibre Channel descriptor parameters, RHA paragraph
E
Change target to target port

HP 206
PDF 51
6.2.2.2.2 Fibre Channel descriptor parameters
E
Change ois set to obit is seto

HP 207
PDF 51
6.2.2.2.2 Fibre Channel descriptor parameters
E
Change target to target port Sequence number: 3

HP 208
PDF 51
6.2.2.2.2 Fibre Channel descriptor parameters
E
Change target to target port Sequence number: 4

HP 209
PDF 51
6.2.2.2.3 Parallel SCSI descriptor parameters
T
odefines values for this fieldo where? Name the mode page/field name whose
values youAre borrowing.

HP 210
PDF 51
6.2.2.2.3 Parallel SCSI descriptor parameters SCSI Parallel Interface 4
(SPI-4)
T
should be SPI-5 everywhere

HP 211
PDF 52
6.2.2.3
I
"For HP, some of the fields will be non changeable."

HP 212
PDF 52
6.2.2.3 Logical Unit descriptor sub-page
E
Fix hanging paragraphs.

HP 213
PDF 52
6.2.2.2.3 Parallel SCSI descriptor parameters Table 36 - Effect of bus mode
qualifier field
E
Change target to target port

HP 214
PDF 52
Table 36 - Effect of bus mode qualifier field
E
Delete othe target porto Sequence number: 4

HP 215
PDF 52
Table 36 - Effect of bus mode qualifier field

E
Delete othe target porto Sequence number: 5

HP 216
PDF 52
6.2.2.2.3 Parallel SCSI descriptor parameters Table 36 - Effect of bus mode qualifier field
E
Delete othe target porto Sequence number: 6

HP 217
PDF 52
6.2.2.2.3 Parallel SCSI descriptor parameters Table 36 - Effect of bus mode qualifier field
E
Delete othe target porto Sequence number: 7

HP 218
PDF 52
6.2.2.2.3 Parallel SCSI descriptor parameters odefines values for this field.o
T
Specify in what mode page and field name.

HP 219
PDF 53
6.2.2.3 Logical Unit descriptor sub-page Table 37 - Logical Unit descriptor sub-page
E
After PAGE LENGTH add (n - 3)

HP 220
PDF 53
6.2.2.3 Logical Unit descriptor sub-page Table 37 - Logical Unit descriptor sub-page
E
Delete the two rows between 8 and 15

HP 221
PDF 53
6.2.2.3Logical Unit descriptor sub-page Table 37 - Logical Unit descriptor sub
page
T
Add a description of the LOGICAL UNIT DESCRIPTORS field.

HP 222
PDF 54
6.2.2.3.1 RMC Logical Unit descriptor parameters Table 38 - RMC Logical Unit descriptor parameters
E
Change n-4 to n-3 Sequence number: 2

HP 223
PDF 54
6.2.2.3.1 RMC Logical Unit descriptor parameters Table 38 - RMC Logical Unit descriptor parameters
E
Remove (MSB) and (LSB) labels from LOGICAL UNIT NUMBER field

HP 224
PDF 54
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
Change affect to effect

HP 225
PDF 54
6.2.2.3.1 RMC Logical Unit descriptor parameters
T

Note that access controlsA LUN mapping features means different initiator ports may see the same LUs with different LUNs. All this can do is report the
LUN for the initiator port retrieving this mode page. Also, I think the mapping could be different through different target ports. Again, all the can
be reported here is through the target port being used.

HP 226
PDF 55
6.2.2.3.1
T
Maybe we should add a new sense code to the primary commands set that means not ready, logical unit offline. In progress is not very descriptive that the
unit needs an external interface to put it online. I always thought the not ready in progress should be used if the outstanding command will sometime get
finished on its own and you should be able to poll for the not ready to go away.

HP 227
PDF 55
6.2.2.3.1
T
It's not clear why MLUD OOh and O1h are different values for Mode Select, when
both values perform the same function
Get rid of those 2 values and shift the others, i.e., leave OOh as it is and change O2h to O1h and O3h to O2h

HP 228
PDF 55
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
Hold should be smallcaps (several times in this paragraph)

HP 229
PDF 55
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
Make oLogical Unit Not Ready, Operation In Progress.o all caps

HP 230
PDF 56
6.2.2.3.1
T
DENOVR bit. Consider this case: If it's set and SELECT WRITE DENSITY=Gen3 but
tape is Gen1-type, then should we check condition?
Specify in the manual what to do with different generations of tape being used
i.e. explore corner cases. Also Mode sense should return the tape's highest
density code, if a tape inserted, instead of the value set by SELECT WRITE DENSITY

HP 231
PDF 56
6.2.2.3.1
T
Add an AUTODROFF bit

HP 232
PDF 56
6.2.2.3.1
T
Add a paragraph describing the operation of the AUTODROFF bit. When zero, the
RMC device server reverts from disaster recovery operation to non-disaster

recovery operation upon detection of vendor specific conditions. Upon reverting to non-disaster recovery operation, the RMC device server will set the DRMODE bit to zero. When one, the RMC device server remains in disaster recovery mode until an application client changes the DRMODE bit to zero.

HP 233
PDF 56
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
Hold should be smallcaps

HP 234
PDF 56
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
effect should be affect

HP 235
PDF 56
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
use should be used

HP 236
PDF 56
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
Density Code should be small caps

HP 237
PDF 56
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
ASSOCIATION should be small caps

HP 238
PDF 57
6.2.2.3.2 SMC Logical Unit descriptor parameters Table 41 - SMC Logical Unit descriptor parameters
E
Change (n-4) to 4

HP 239
PDF 57
6.2.2.3.2 SMC Logical Unit descriptor parameters Table 41 - SMC Logical Unit descriptor parameters
E
Remove (MSB) and (LSB) labels from LOGICAL UNIT NUMBER field

HP 240
PDF 58
6.2.2.3.3 ADC Logical Unit descriptor parameters Table 42 u ADC Logical Unit descriptor parameters
E
Remove (MSB) and (LSB) labels from LOGICAL UNIT NUMBER field

HP 241
PDF 58
6.2.2.3.3 ADC Logical Unit descriptor parameters Table 42 u ADC Logical Unit descriptor parameters
E
Change (n-4) to 4

HP 242
PDF 58
6.3.1 Vital product data parameters overview
E
Remove 6.3.1 level and put the text right into 6.3

HP 243

PDF 58
6.3 VPD parameters
T
oDevice Identification page 83h (as defined in SPC-2) may be different
between
ADC and RMC devices.o They must have different data if theyAve got logical
unit names or will confuse software. IAd delete this sentence.

HP 244
PDF 60
A.3 Configuration process steps
E
Fix hanging paragraphs

HP 245
PDF 60
A.3 Configuration process steps
E
Change otable aboveo to Table A.1.

HP 246
PDF 61
A.4.1 Mode parameter header and block descriptor
E
Add text introducing the table, and add a table title

HP 247
PDF 61
A.4 Sample mode parameters
E
Fix hanging paragraphs

HP 248
PDF 62
A.4.3 DTD primary port descriptor subpage
E
Change oService Delivery Porto to oSCSI Target Porto

HP 249
PDF 62
A.4.2 Node descriptor subpage
E
In the unlabeled table, add a header row and change row numbers 8..23 to
8..15

HP 250
PDF 62
A.4.2 Node descriptor subpage
E
Add a title to the table

HP 251
PDF 62
A.4.3 DTD primary port descriptor subpage
E
Add a title to the table

HP 252
PDF 62
A.4.3 DTD primary port descriptor subpage
E
In the untitled table, add a header row and change 24..27 to 0..3

HP 253
PDF 62
A.4.2 Node descriptor subpage
E
Remove the (MSB) and (LSB) labels from WORLD WIDE NODE NAME

HP 254

PDF 62
A.4.3 DTD primary port descriptor subpage
E
Fix hanging paragraphs

HP 255
PDF 63
A.4.3.1 Port A port descriptor
E
Add a title to the table, add a header row, and fix the row numbers

HP 256
PDF 63
A.4.3 Port B port descriptor
E
Add a title to the table, add a header row, and fix the row numbers

HP 257
PDF 63
A.4.4 Logical unit descriptor subpage
E
Add a title to the table, add a header row, and fix the row numbers

HP 258
PDF 63
A.4.4 Logical unit descriptor subpage
E
Fix hanging paragraphs

HP 259
PDF 64
A.4.4.1 RMC logical unit descriptor
E
Add a title to the table, add a header row, and fix the row numbers

HP 260
PDF 64
A.4.4.1 RMC logical unit descriptor
E
Fix hanging paragraphs

HP 261
PDF 64
A.4.4.1 RMC logical unit descriptor
E
Delete interface

HP 262
PDF 65
A.4.4.1.2 T10 vendor identifier descriptor
E
Add a title to the table, add a header row, and fix the row numbers

HP 263
PDF 65
A.4.4.1.3 IEEE extended identifier descriptor
E
Add a title to the table, add a header row, and fix the row numbers

HP 264
PDF 66
A.4.4.2 SMC logical unit descriptor
E
Add a title to the table, add a header row, and fix the row numbers

HP 265
PDF 66
A.4.4.3 ADC logical unit descriptor
E
Add a title to the table, add a header row, and fix the row numbers

HP 266
Q
What about f/w upgrade cartridge handling - containing drive images, controller images, images for other drives, invalid firmware images, image copying.a Not sure to what extent this is covered in the spec

HP 267
Q
Is there a means to report media type?

HP 268
Q
Should there be special provision for FC port failover?

HP 269
Q
Is the case when the drive powers up and may not responding covered (e.g. powered up with cartridges loaded)?

HP 270
Q
Are there response time limits specified or is solely contained withinatransport layer spec?

****

Comments attached to No ballot from George O. Penokie of IBM Corp.:

IBM (Penokie)-001
PDF pg 1, pg i

E
All the red text has to be changed to black.

IBM (Penokie)-002
PDF pg 2, pg ii, Points of Contact:
E
The T10 vice-chair address information is not correct. It should be:
George O. Penokie
IBM
3605 Highway 52 N
MS: 2C6
Rochester, MN
Tel: (507) 253-5208
Fax: (507) 253-2880
Email: gop@us.ibm.com

IBM (Penokie)-003
PDF pg 3, pg iii,
Revision Information
E
The revision information has to be removed before going to letter ballot.

IBM (Penokie)-004
PDF pg 11, pg xi,
Foreword, 1st paragraph
E
There is no need to indicate the number of the standard as it is listed in the
normative references section so delete << (T10/1157-D) >>

IBM (Penokie)-005
PDF pg 11,
pg xi, Foreword,
Last paragraph
E
The name of the T10 committee should be << SCSI Storage Interfaces >> as it

is
no longer the << Lower Level Interfaces >>.

IBM (Penokie)-006
PDF pg 12, pg xii,
Introduction
E
The statement << The Automation/Drive Interface - Commands (ADC) standard is divided into six clauses: >> should be << This standard is divided into the following clauses: >>.

IBM (Penokie)-007
PDF pg 12, pg xii,
Introduction
E
The statement << implementation of the Automation Drive Interface - Commands (ADC) standard >> should be << implementation of this standard >>.

IBM (Penokie)-008
PDF pg 13, pg 1,
Global
E
Replace all references to << Automation Drive Interface - Commands (ADC) standard >> with << this standard >> in all clauses starting with the 2nd paragraph in clause 1.

IBM (Penokie)-009
PDF pg 13, pg 1,
1 Scope, Item a in a.b.c list
E
The statement << command response data; >> should be << command response data
(see SCSI Primary Command - 3); >>.

IBM (Penokie)-010
PDF pg 14, pg 2,
1 Scope
E
The entire list of standards after the statement << At the time this standard
was generated, examples of the SCSI general structure included: Physical Interconnects: >> including that statement should be deleted. It is not relevant and impossible to keep accurate.

IBM (Penokie)-011
PDF pg 16, pg 4,
2.2 Approved references
E
The statement << ISO/IEC 14776-114, SCSI Parallel Interface - 4 >> should be replaced with << ISO/IEC 14766-115, SCSI Parallel Interface - 5 >> and moved
to the references under development section. This is because SPI-4 was removed
from ISO balloting.

IBM (Penokie)-012
PDF pg 16, pg 4,
2.2 Approved references
E
Change this << T11/1331-D, >> to << NICITS 373-2003 >> as it has been published. You should check if it has an ISO number yet.

IBM (Penokie)-013
PDF pg 16, pg 4,
2.2 Approved references
E
Unless there is some good reason multiple versions of the same standard should not be listed. For example the references list should only have SAM-3,
SPC-3, MMC-3, SPI-5, and SSC-2. Also all references to other standards

within
this standard should reference the one version in the reverence list.

IBM (Penokie)-014
PDF pg 17, pg 5,
3.1.1 accessible state:
E
The statement << If the device server would respond to a command with a
status
of CHECK CONDITION and sense key of NOT READY, then it is in the
non-accessible state. >> should be deleted as it is important but should
not
be in the definition it should be in the model.

IBM (Penokie)-015
PDF pg 17, pg 5,
3.1.2 application client:
E
The statement << An object that is the source of SCSI commands. Further
definition of an application client is found in the SCSI Architecture
Model-2
standard >> should be << An object that is the source of SCSI commands (see
SCSI Architecture Model-3).

IBM (Penokie)-016
PDF pg 17, pg 5,
3.1.3 asynchronous event notification:
E
AEN no longer exists in SAM-3 so if you are really want it you will have to
reference SAM-2. But I would recommend deleting it from this standard.

IBM (Penokie)-017
PDF pg 17, pg 5,
3.1.4 auto-contingent allegiance:
E
The statement << See the SCSI Architecture Model-2 standard for a detailed
definition of auto-contingent allegiance. >> should be << (see SCSI
Architecture Model-3). >>

IBM (Penokie)-018
PDF pg 17, pg 5,
3.1.8 contingent allegiance:
E
The statement << status. A detailed definition of contingent allegiance may
be found in the SCSI Architecture Model-2 standard. >> should be << status
(see SCSI Architecture Model-2).

IBM (Penokie)-019
PDF pg 17, pg 5,
3.1.8 contingent allegiance:
E
Contingent allegiance is no longer in SAM-3 so unless it is really needed
for
ADC then I would delete it from ADC.

IBM (Penokie)-020
PDF pg 17, pg 5,
3.1.9 data transfer device:
E
The term << volume >> is not defined. It needs to be.

IBM (Penokie)-021
PDF pg 17, pg 5,
3.1.15 I_T_L nexus:
E
The statement << This relationship replaces the prior I_T nexus. >> should
be
<< This relationship extends the prior I_T nexus. >>

IBM (Penokie)-022

PDF pg 17, pg 5,
3.1.16 I_T_L_Q nexus:
E
The statement << This relationship replaces the prior I_T nexus or I_T_L nexus. >> should be << This relationship extends the prior I_T nexus or I_T_L
nexus. >>

IBM (Penokie)-023
PDF pg 18, pg 6,
3.1.18 logical unit:
E
The statement << An externally addressable entity within a SCSI target device.
See the SCSI Architecture Model-2 standard for a detailed definition of a logical unit. >> should be << A SCSI target device object, containing a device
server and task manager, that implements a device model and manages tasks to process SCSI commands sent by an application client. See SCSI Architecture Model-3). >>.

IBM (Penokie)-024
PDF pg 18, pg 6,
3.1.20 logical unit reset:
E
Change << SCSI Architecture Model-2. >> to << SCSI Architecture Model-3. >>

IBM (Penokie)-025
PDF pg 18, pg 6,
3.1.21 logical unit reset event:
E
Change << SCSI Architecture Model-2. >> to << SCSI Architecture Model-3. >>

IBM (Penokie)-026
PDF pg 18, pg 6,
3.1.24 port:
E
The statement << A single attachment to a SCSI bus segment from a SCSI device.
>> should be << A SCSI device resident object that connects the application client, device server or task manager to the service delivery subsystem through which requests and responses are routed. >>.

IBM (Penokie)-027
PDF pg 18, pg 6,
3.1.28 removable medium commands (RMC) device server:
E
The statement << system, e.g., an SSC (SCSI stream commands) device. >> should
be << system (e.g., a SCSI Stream Commands -2 device). >> .

IBM (Penokie)-028
PDF pg 18, pg 6,
3.1.29 SCSI initiator device:
E
The statement << device. See the SCSI Architecture Model-2 standard for a detailed definition of a SCSI initiator device. >> should be << device (see the SCSI Architecture Model-3). >>.

IBM (Penokie)-029
PDF pg 18, pg 6,
3.1.30 SCSI initiator port:
E
The statement << routed. See the SCSI Architecture Model-2 standard for a detailed definition of a SCSI initiator port. >> should be << routed (see the
SCSI Architecture Model-3). >>.

IBM (Penokie)-030
PDF pg 18, pg 6,

3.1.31 SCSI target device:
E
The statement << processing. See the SCSI Architecture Model-2 standard for
a
detailed definition of a SCSI target device. >> should be << processing (see
the SCSI Architecture Model-3). >>.

IBM (Penokie)-031
PDF pg 18, pg 6,
3.1.32 SCSI target port:
E
The statement << routed. See the SCSI Architecture Model-2 standard for a
detailed definition of a SCSI target port. >> should be << routed (see the
SCSI Architecture Model-3). >>.

IBM (Penokie)-032
PDF pg 19, pg 7,
3.1.36 task manager:
E
The term << executes >> should be << processes >>.

IBM (Penokie)-033
PDF pg 19, pg 7,
3.1.38 task set:
E
The statement << contingent allegiance and >> should be deleted as SAM-3 not
longer defines CA.

IBM (Penokie)-034
PDF pg 19, pg 7,
3.1.38 task set:
E
The statement << rules. See the SCSI Architecture Model-2 standard for a
detailed definition of a task set. >> should be << rules (see the SCSI
Architecture Model-3). >>.

IBM (Penokie)-035
PDF pg 19, pg 7,
3.2 Symbols and abbreviations
E
The << not equal >>and the << less than or equal to >> symbols did not
translate into the pdf correctly. This needs to be fixed.

IBM (Penokie)-036
PDF pg 19, pg 7,
3.2 Symbols and abbreviations
E
Global - All cases of the term << DTD >> should be << DTD device >> or
everything should be changed to << DT device >>. This comment overrides all
my
other comments that suggest << device >> should be << DTD device >> if the
<<
DT device >> is selected. I prefer everything be changed to DT device.

IBM (Penokie)-037
PDF pg 19, pg 7,
3.2 Symbols and abbreviations
E
The SCSI-2 (Small Computer System Interface-2) and SCSI-3 (Small Computer
System Interface-3) terms should be deleted from this standard and only SCSI
should be used.

IBM (Penokie)-038
PDF pg 19, pg 7,
3.2 Symbols and abbreviations
E
Should only reference one version of each standard unless there is a good
reason to do otherwise.

IBM (Penokie)-039

PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 1st paragraph
E
The statement << transfer, such as a tape drive. In >> should be << transfer
(e.g., a tape drive). In >>.

IBM (Penokie)-040
PDF pg 22, pg 10,
Global
E
(Technical) The term << will >> is not a key word and should in most cases
be
replaced with << shall >>. All will's next to be removed from this
standard.

IBM (Penokie)-041
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 1st paragraph
E
The statement << server, such as a SCSI Stream Command (SSC) device server,
>>
should be << server (e.g., a SSC-2 device server), >>.

IBM (Penokie)-042
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 1st paragraph
E
The statement << which processes tasks >> should be << that processes tasks
>>.

IBM (Penokie)-043
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 1st paragraph
E
The statement << primary ports, e.g., Parallel SCSI or Fibre Channel.>>
should
be << primary ports (e.g., SPI-5 or Fibre Channel). >>.

IBM (Penokie)-044
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 1st paragraph
E
The statement << device server will typically receive >> should be << device
server normally receives >>.

IBM (Penokie)-045
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 1st paragraph
E
The term << Automation/Drive Interface - Transport Protocol (ADT) port. >>
needs to be defined in the definitions list.

IBM (Penokie)-046
PDF pg 22, pg 10,
Global
E
All the acronyms are already defined in section 3 so there is no need to
repeat them over and over. So either remove all the acronyms and use the
full
text or remove the full text and use the acronyms. Do not do both.

IBM (Penokie)-047
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 2nd paragraph
E
The term << automation device >> is not defined. This needs to be fixed.
Note
the term is used elsewhere and any fix needs to be made consistent
throughout
the standard.

IBM (Penokie)-048
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 2nd paragraph
E
It's not clear it the will in the statement << device will typically contain
an SMC >> should be a << shall >> or a << should >> but it shall not be a << will >>.

IBM (Penokie)-049
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 2nd paragraph
E
The statement << server which controls >> should be << server that controls >>.

IBM (Penokie)-050
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 2nd paragraph
E
The statement << controller needs to perform >> should be << controller shall
perform >>.

IBM (Penokie)-051
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 2nd paragraph
E
The statement << following tasks: >> should be << following operations >> or
<< following functions >> tasks are very specific things in SCSI.

IBM (Penokie)-052
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 1st bullet
E
The statement << parameters, such as SCSI Port ID, Fibre Channel Port_Name,
and Autoload mode. >> should be << parameters (e.g., SCSI Port ID, Fibre
Channel Port_Name, Autoload mode). >>

IBM (Penokie)-053
PDF pg 22, pg 10,
Global
E
There should be no bulletted lists in this standard. That is not a convention
used in SCSI standards. All bulleted lists should be changed to a,b,c lists or
1,2,3 lists in the proper format. (i.e., semicolons after each list item and a
'and' or 'or' on the second to the last item in the list.

IBM (Penokie)-054
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, 2nd bullet
E
The statement << ports, e.g., Parallel SCSI or Fibre Channel. >> should be <<
ports (e.g., SPI-5 or Fibre Channel); >>.

IBM (Penokie)-055
PDF pg 22, pg 10,
4.2.1 Automation drive interface overview, Paragraph above figure 2
E
The quoted text << 'automation application client' >> should have the quotes removed.

IBM (Penokie)-056
PDF pg 23, pg 11,
4.2.1 Automation drive interface overview, Figure 2

E
The term << DTD Primary Port >> needs to be defined in the definitions
section.

IBM (Penokie)-057
PDF pg 23, pg 11,
4.2.1 Automation drive interface overview, Figure 2
E
The term << Automation Primary Port >> needs to be defined in the
definitions
section.

IBM (Penokie)-058
PDF pg 23, pg 11,
4.2.1 Automation drive interface overview, Last paragraph
E
This paragraph << Figure 2 shows a hardware view of the relationship between
the automation device and the data transfer devices, with the automation
drive
interface in use. >> should be before the figure not after the figure.

IBM (Penokie)-059
PDF pg 23, pg 11,
Global
E
Some figures << illustrate >> and other << show >> either is OK but only one
should be used consistently throughout the standard.

IBM (Penokie)-060
PDF pg 23, pg 11,
4.2.2 Device server interaction, 1st paragraph
E
The statement << and the various device servers it has: an RMC device
server,
an ADC device server, and an optional SMC device server (see 4.2.2.1). >>
should be << with an RMC device server, an ADC device server, and an
optional
SMC device server (see 4.2.2.1). >>

IBM (Penokie)-061
PDF pg 23, pg 11,
4.2.2 Device server interaction, 1st paragraph
E
In several places the statement << logical unit on the xxx port. >> should
be
changed to << logical unit through the xxx port >>. Logical units are not
on
ports but rather are accessed through ports. If that is not your model then
you have a major architectural problem.

IBM (Penokie)-062
PDF pg 24, pg 12,
4.2.2 Device server interaction, 3rd paragraph
E
The statement << PREVENT ALLOW MEDIUM REMOVAL commands issued to the RMC>>
should be << PREVENT ALLOW MEDIUM REMOVAL commands (see SPC-3) issued to
the
RMC>>

IBM (Penokie)-063
PDF pg 24, pg 12,
4.2.2 Device server interaction, 4th paragraph (Global)
E
(Technical) The term << can >> shall not be used in a standard. It needs to
be
replaced with may, should, or shall or reworded in some fashion to eliminate
it. In this paragraph it looks like << may >> in both cases.

IBM (Penokie)-064
PDF pg 24, pg 12,

4.2.2 Device server interaction, 4th paragraph
E
The statement << operations, e.g. the loading and unloading of media (see 6.2.2.3.1). >> should be << operations (e.g., the loading and unloading of media) (see 6.2.2.3.1). >>

IBM (Penokie)-065
PDF pg 24, pg 12,
4.2.2 Device server interaction, 5th paragraph
E
The statement << A TEST UNIT READY issued to >> should be << A TEST UNIT READY
command (see SPC-3) issued to >>

IBM (Penokie)-066
PDF pg 24, pg 12,
4.2.2 Device server interaction, 5th paragraph
E
The statement << The ADC device server shall issue a NOT READY >> should be <<
In response to a TEST UNIT READY command the ADC device server shall issue a NOT READY >>

IBM (Penokie)-067
PDF pg 24, pg 12,
4.2.2 Device server interaction, 5th paragraph
E
The statement << device, which corresponds >> should be << device, that corresponds >>.

IBM (Penokie)-068
PDF pg 24, pg 12,
4.2.2 Device server interaction, 5th paragraph (Global)
E
All field names should be in small caps which is not the case in the << DAcc >> field name in this paragraph. This needs to be fixed throughout the standard.

IBM (Penokie)-069
PDF pg 24, pg 12,
4.2.2 Device server interaction, 6th paragraph
E
The statement << device, such as pressing an eject button on the DTD, or a power on of the DTD. >> should be << device (e.g., pressing an eject button on
the DTD, or a power on of the DTD). >>

IBM (Penokie)-070
PDF pg 24, pg 12,
4.2.2 Device server interaction, 6th paragraph
E
The statement << server (such as changes to mode parameters that only are supported by one device server). >> should be << << server (e.g., changes to mode parameters that only are supported by one device server). >>

IBM (Penokie)-071
PDF pg 24, pg 12,
4.2.2 Device server interaction, 7th paragraph
E
The statement << A LOAD UNLOAD command issued to >> should be << A LOAD UNLOAD
command (see SSC-2) issued to >>

IBM (Penokie)-072
PDF pg 24, pg 12,
4.2.2 Device server interaction, 7th paragraph
E
The statement << and performed by >> carries no meaningful information and should be deleted.

IBM (Penokie)-073
PDF pg 24, pg 12,
4.2.2 Device server interaction, 7th paragraph
E
The statement << as well.>> carries no meaningful information and should be deleted.

IBM (Penokie)-074
PDF pg 24, pg 12,
4.2.2 Device server interaction, 7th paragraph
E
The statement << and performed by >> carries no meaningful information and should be deleted.

IBM (Penokie)-075
PDF pg 24, pg 12,
4.2.2 Device server interaction, 7th paragraph
E
The statement << medium, which also affects the ADC device server. >> should be << medium and the ADC device server. >>.

IBM (Penokie)-076
PDF pg 24, pg 12,
4.2.2 Device server interaction, 7th paragraph
E
The statement << as well.>> carries no meaningful information and should be deleted.

IBM (Penokie)-077
PDF pg 25, pg 13,
4.2.2 Device server interaction, 8th paragraph
E
The statement << The ADC command NOTIFY DATA TRANSFER DEVICE provides a >> should be << The NOTIFY DATA TRANSFER DEVICE command (see x.x.x) provides a >>.

IBM (Penokie)-078
PDF pg 25, pg 13,
4.2.2 Device server interaction, 8th paragraph
E
The statement << This cooperative interaction between the device servers facilitates better error handling. >> contains no information useful to a standard. A standard should not justify the reason for a requirement.

IBM (Penokie)-079
PDF pg 25, pg 13,
4.2.2.1.1 ADI bridging introduction, 1st paragraph
E
The statement << may optionally >> is redundant and should be just << may >>.

IBM (Penokie)-080
PDF pg 25, pg 13,
4.2.2.1.1 ADI bridging introduction, 1st paragraph
E
In the statement <<When this operation is >> what is the << this >> referring
to? I assume it's ADI bridging and therefore should be << When ADI bridging is >>

IBM (Penokie)-081
PDF pg 25, pg 13,
4.2.2.1.1 ADI bridging introduction, 1st paragraph
E
The statement << server (called the 'local SMC device server'), >> should be << server (i.e., the local SMC device server). >>

IBM (Penokie)-082
PDF pg 25, pg 13,
4.2.2.1.1 ADI bridging introduction, 1st paragraph

E
The statement << server (called the 'remote SMC device server'). >> should
be
<< server (i.e., the remote SMC device server\

IBM (Penokie)-083
PDF pg 25, pg 13,
4.2.2.1.1 ADI bridging introduction, 2nd paragraph
E
The statement << server will receive >> should be << server receives >>.

IBM (Penokie)-084
PDF pg 25, pg 13,
4.2.2.1.1 ADI bridging introduction, 2nd paragraph
E
The statement << transfer device, called the 'bridging manager.' >> should
be
<< transfer device (i.e., the bridging manager\

IBM (Penokie)-085
PDF pg 25, pg 13,
4.2.2.1.1 ADI bridging introduction, 3rd paragraph
E
The statement << This can be used, for example, in low-cost automation
devices
that do not have separate primary interface ports. >> should be << This may
be
used in low-cost automation devices that do not have separate primary
interface ports. >>

IBM (Penokie)-086
PDF pg 25, pg 13,
4.2.2.1.2 Local SMC device server operation, 1st paragraph
E
The statement << initiator port which originated >> should be << initiator
port that originated

IBM (Penokie)-087
PDF pg 25, pg 13,
4.2.2.1.2 Local SMC device server operation, 1st paragraph
E
The statement << it cannot implement the full >> should be << it is not able
to implement the full >>.

IBM (Penokie)-088
PDF pg 25, pg 13,
4.2.2.1.2 Local SMC device server operation, 2nd paragraph
E
The statement << shall be executed by the >> should be << shall be processed
by the >>.

IBM (Penokie)-089
PDF pg 25, pg 13,
4.2.2.1.2 Local SMC device server operation, item list
E
The RESERVE(6), RESERVE(10), RELEASE(6), and RELEASE(10) are no longer
defined
in SPC-3 so listing them required SPC-2 be listed in the references. If they
stay then the (see SPC-2) needs to be after item a and b and the (see spc-3)
needs to be after the other list items.

IBM (Penokie)-090
PDF pg 26, pg 14,
4.2.2.1.2 Local SMC device server operation, 2nd a.b.c list
E
The statement << a reservation condition >> should be << reservation rules
(see SPC-2); >>

IBM (Penokie)-091
PDF pg 26, pg 14,

4.2.2.1.2 Local SMC device server operation, 2nd a.b.c list
E
This list does not have the correct format. There should be a semicolon at
the
end of each item and an '; and' on the 2nd to the last list item.

IBM (Penokie)-092
PDF pg 26, pg 14,
4.2.2.1.2 Local SMC device server operation, 2nd a.b.c. list
E
The use of contingent allegiance requires SAM-2 to be in the references
list.
Also a reference to SAM-2 should be placed after the statement << contingent
allegiance >>.

IBM (Penokie)-093
PDF pg 26, pg 14,
4.2.2.1.3 Bridging manager operation, 1st paragraph
E
The statement << REPORT LUNS command >> should be << REPORT LUNS command
(see
SPC-3) >>.

IBM (Penokie)-094
PDF pg 26, pg 14,
4.2.2.1.3 Bridging manager operation, 2nd paragraph (global)
E
The term << ready status >> is not defined and not used in other SCSI
standards. There either needs to be defined in the definitions section or
changed to state << NOT READY sense key >>. So in the statement here would
read << This shall have no effect on the cached NOT READY sense keys, as
described in 4.2.2.1.4. >>.

IBM (Penokie)-095
PDF pg 26, pg 14,
4.2.2.1.3 Bridging manager operation, 2nd paragraph
E
The statement << cached ready status, as described in 4.2.2.1.4. >> should
be
<< cached ready status (see 4.2.2.1.4). >>

IBM (Penokie)-096
PDF pg 26, pg 14,
4.2.2.1.3 Bridging manager operation, 3rd paragraph
E
The statement << threaded fashion, i.e., not issue more than one request at
a
time to the remote SMC device server. >> should be << threaded fashion
(i.e.,
not issue more than one request at a time to the remote SMC device server).
>>

IBM (Penokie)-097
PDF pg 26, pg 14,
4.2.2.1.3 Bridging manager operation, 3rd paragraph
E
The statement << Moreover, if execution of a single request >> should be <<
Processing of >>.

IBM (Penokie)-098
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 1st paragraph
E
The statement << In some implementations >> should be deleted as it contains
no useful information.

IBM (Penokie)-099
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 1st paragraph
E

The term << quickly >> should be deleted as it cannot be quantified as to how
quick is quick.

IBM (Penokie)-100
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 1st paragraph
E
The statement << server. For instance, it may save the inquiry data from the remote SMC device server and return it to any initiator port that requests it.
>> should be << server (e.g., it may save the inquiry data from the remote SMC
device server and return it to any initiator port that requests it). >>

IBM (Penokie)-101
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 2nd paragraph
E
The << CACHE >> in CACHE field should be in small caps in two places.

IBM (Penokie)-102
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 2nd paragraph
E
(Technical) The following sentence is bad English and doesn't make any sense.
<< When the CACHE field is set to one, caching is enabled and the automation application client shall invoke the NOTIFY DATA TRANSFER DEVICE command (see 5.2) on the ADC device server when events occur that may change data cached by
the local SMC device server. >>. I'm not sure what it is supposed to be saying
but it needs to be fixed.

IBM (Penokie)-103
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 2nd paragraph
E
The statement << When the local SMC device server becomes aware of a possible
change in the cached data, it shall discontinue using the cached data until it
has been refreshed. >> should be << When the local SMC device server detects a
possible change in the cached data, it shall discontinue using the cached data
until the cached data has been updated. >>

IBM (Penokie)-104
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 2nd paragraph
E
The statement << It shall issue the necessary refresh commands to the bridging
manager before issuing any commands that it may have received from a DTD primary port and queued. >> should be << The SMC device server shall issue any
commands required to update the cache to the bridging manager before issuing any commands that it may have received from a DTD primary port and queued.
>>

IBM (Penokie)-105
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 3rd paragraph
E
The statement << application client need not invoke NOTIFY DATA TRANSFER DEVICE for purposes >> should be << application client is not required to invoke NOTIFY DATA TRANSFER DEVICE command for purposes >>

IBM (Penokie)-106
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 4th paragraph
E
The statement <<Ready status indicates>> should be << A cached NOT READY
sense
key indicates >>

IBM (Penokie)-107
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 4th paragraph
E
The statement << When the remote >> should be << If the remote >>.

IBM (Penokie)-108
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 4th paragraph
E
The statement << NOT READY, the remote SMC device >> should be << NOT READY,
then the remote SMC device >>

IBM (Penokie)-109
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 4th paragraph
E
The statement << ready status >> should be << NOT READY sense keys >>

IBM (Penokie)-110
PDF pg 26, pg 14,
4.2.2.1.4 Caching SMC data and status, 4th paragraph
E
The statement << If the ready status indicates not accessible, the local>>
should be << If there are any cached NOT READY sense keys then the SMC
device
server is not accessible and the local >>

IBM (Penokie)-111
PDF pg 27, pg 15,
4.2.2.1.4 Caching SMC data and status, 4th paragraph
E
The statement << accessible, including TEST UNIT READY. >> should be <<
accessed. >>.

IBM (Penokie)-112
PDF pg 27, pg 15,
4.2.2.1.4 Caching SMC data and status, 4th paragraph
E
The statement << It shall set the Sense Key >> should be << The SMC device
server shall set the sense key >>.

IBM (Penokie)-113
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 1st paragraph
E
The statement << Very High Frequency data during load >> should be << very
high frequency data log parameter during load >>.

IBM (Penokie)-114
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 1st paragraph
E
The statement << operations (see clause 6.1.2.1). >> should be << operations
(see 6.1.2.1). >> .

IBM (Penokie)-115
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 1st paragraph
E
The statement << Automation devices rely on this information to coordinate
handling of the media into the DTD, as well as to provide activity status

back
to users of the system. >> should be << This information allows automation
devices to coordinate handling of the media into the DTD and to provide
activity status back to the application client. >>

IBM (Penokie)-116
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states
E
The names of the log parameters should not be capitalized. For example Very
High Frequency should be very high frequency data parameter. This is a
global
change

IBM (Penokie)-117
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 2nd paragraph
E
The statement << at a minimum. >> should be deleted as it adds no useful
information.

IBM (Penokie)-118
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 2nd paragraph
E
The statement << reported to accurately reflect the states actually used by
>>
should be << reported to reflect the states used by >>

IBM (Penokie)-119
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 3nd preadapt
E
The statement << the recovery requested (RRQST) field in the Very High
Frequency data shall be set to one and the in transition (INXTN) field shall
be set to zero. >> should be << the RRQST bit in the very high frequency
data
log parameter shall be set to one and the INXTN bit shall be set to zero. >>

IBM (Penokie)-120
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 3rd paragraph
E
The statement << Very High Frequency data shall be >> should be << very high
frequency data log parameter shall be >>.

IBM (Penokie)-121
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 4th paragraph
E
The statement << When the in transition (INXTN) field is set to zero, the
DTD
requires an external stimulus (such as a command or physical translation of
media) to attempt to reach another state. >> should be << When the INXTN bit
is set to zero, the DTD requires an external stimulus (e.g., a command or
physical translation of media) before transitioning to another state. >>

IBM (Penokie)-122
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 6th paragraph
E
The statement << state, such as a 'push' of the media by the automation. >>
should be << state, (e.g., as a push of the media by the automation). >>.
Also
the term << push >> is not defined. That needs to be fixed.

IBM (Penokie)-123
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 7th paragraph
E

The statement << Load state (c) represents detection and acknowledgement by the DTD of media presence, and that the DTD is now able to assume control of the media and that automation can relinquish control of robotic access. This state may be reflected after a media 'push' by the automation for example. An additional external stimulus is required to leave this state, such as a 'load' command from the automation. >> should be << Load state (c) represents detection and acknowledgement by the DTD of media presence, and that the DTD may now assume control of the media and that automation should relinquish control of robotic access (e.g., this state may be reflected after a media push by the automation). An additional external stimulus is required to leave this state (e.g., a load command from the automation). >>

IBM (Penokie)-124
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 8th paragraph
E
The statement << of the DTD. It is used while seating the media. >> should be << of the DTD (e.g., to seat the media). >>.

IBM (Penokie)-125
PDF pg 27, pg 15,
4.2.3 Load and unload nominal states, 9th paragraph
E
The statement << leave this state, such as a 'thread' command from the automation. >> should be << leave this state (e.g., a thread command from the automation. >>. Also there is not definition of what a << thread >> is. This needs to be fixed.

IBM (Penokie)-126
PDF pg 28, pg 16,
4.2.3 Load and unload nominal states, 11th paragraph
E
The statement << leave this state, such as a command from the automation. >> should be << leave this state (e.g., a command from the automation). >> .

IBM (Penokie)-127
PDF pg 28, pg 16,
4.2.3 Load and unload nominal states, 13th paragraph
E
The statement << operation, e.g., the DTD being in the SCSI READY state. >> should be << operation (e.g., the DTD being in the SCSI READY state). >>

IBM (Penokie)-128
PDF pg 28, pg 16,
4.2.3 Load and unload nominal states, Table 2 line 3
E
The statement << After 'push' by automation >> should be << After push by automation >>.

IBM (Penokie)-129
PDF pg 28, pg 16,
4.2.3 Load and unload nominal states, 1st paragraph above table 3
E
The statement << Very High Frequency data during unload >> should be << very high frequency data log parameter during unload >>.

IBM (Penokie)-130
PDF pg 28, pg 16,
4.2.3 Load and unload nominal states, 1st paragraph above table 3
E
The statement << Automation devices rely on this information to coordinate handling of the media from the DTD, as well as to provide activity status back to users of the system. >> should be << Automation devices use this information to coordinate handling of the media from the DTD and to provide

activity status back to application clients. >>

IBM (Penokie)-131
PDF pg 28, pg 16,
4.2.3 Load and unload nominal states, 1st paragraph after table 3
E
The statement << at a minimum. >> should be deleted as it adds no useful
information.

IBM (Penokie)-132
PDF pg 28, pg 16,
4.2.3 Load and unload nominal states, 1st paragraph after table 3
E
The statement << reported to accurately reflect the states actually used by
>>
should be << reported to reflect the states used by >>

IBM (Penokie)-133
PDF pg 29, pg 17,
4.2.3 Load and unload nominal states, 2nd preadapt under table 3
E
The statement << the recovery requested (RRQST) field in the Very High
Frequency data shall be set to one and the in transition (INXTN) field shall
be set to zero. >> should be << the RRQST bit in the very high frequency
data
log parameter shall be set to one and the INXTN bit shall be set to zero. >>

IBM (Penokie)-134
PDF pg 29, pg 17,
4.2.3 Load and unload nominal states, Almost all paragraphs under table 3
E
The term << reflects >> should be change to << represents >> which is the
term
used in other similar statements in this section.

IBM (Penokie)-135
PDF pg 29, pg 17,
4.2.3 Load and unload nominal states, 6th paragraph after table 3
E
The statement << unseated, as well as the state during the eject operation.
>>
should be << unseated and the DTD state during the eject operation. >>

IBM (Penokie)-136
PDF pg 29, pg 17,
4.2.3 Load and unload nominal states, 7th paragraph under table 3
E
The statement << An external stimulus, such as a request to eject or load,
is
needed to leave this state. >> should be << An additional external stimulus
is
required to leave this state (e.g., a request to eject or load). >>.

IBM (Penokie)-137
PDF pg 29, pg 17,
4.2.3 Load and unload nominal states, 8th paragraph under table 3
E
The statement << An external stimulus, such as a request to eject or load,
is
needed to leave this state. >> should be << An additional external stimulus
is
required to leave this state (e.g., a request to eject or load). >>.

IBM (Penokie)-138
PDF pg 29, pg 17,
4.2.3 Load and unload nominal states, 9th paragraph under table e3
E
The statement << unloaded and ejected and the DTD is still able >> should be
<< unloaded, ejected, and the DTD is still able >> .

IBM (Penokie)-139
PDF pg 29, pg 17,
4.2.3 Load and unload nominal states, Last paragraph
E
The statement << As an example, an 'unload to hold point' sequence could use states (a), (b), (c) and (e), or alternatively (a), (b), (c), (d), and (f). An 'unload to eject' sequence could use states (a), (b), (c), (d), and (h). >> should be << As an example, an unload to hold point sequence should use states (a), (b), (c) and (e), or alternatively states (a), (b), (c), (d), and (f). An unload to eject sequence should use states (a), (b), (c), (d), and (h). >>

IBM (Penokie)-140
PDF pg 29, pg 17,
4.2.4 Error reporting
E
The statement << CHECK CONDITION status. The appropriate sense key and additional sense code should be set. >> should be << CHECK CONDITION status with the appropriate sense key and additional sense code. >>

IBM (Penokie)-141
PDF pg 29, pg 17,
4.2.4 Error reporting
E
The statement << Table 4 illustrates >> should be << Table 4 lists >>

IBM (Penokie)-142
PDF pg 29, pg 17,
4.2.5 Sense data masking, 1st paragraph
E
The statement << If an initiator is testing the status >> should be << If an application client is testing the status >>.

IBM (Penokie)-143
PDF pg 30, pg 18,
4.2.5 Sense data masking, 2nd paragraph
E
The statement << loads - i.e., failures are not reported - the >> should be << loads (i.e., failures are not reported) the >>

IBM (Penokie)-144
PDF pg 30, pg 18,
4.2.5 Sense data masking, 2nd paragraph
E
The statement << automation device will be able to retry the load without causing >> should be << automation device may retry the load without causing >>

IBM (Penokie)-145
PDF pg 30, pg 18,
4.2.5 Sense data masking, 2nd paragraph
E
The statement << This behavior is termed 'sense data masking' and its implementation is optional. >> should be << This behavior is termed sense data masking. >>

IBM (Penokie)-146
PDF pg 30, pg 18,
4.2.5 Sense data masking, 3rd paragraph
E
The statement << While in masking mode, the data >> should be << If sense data masking is enabled, the data >>.

IBM (Penokie)-147

PDF pg 30, pg 18,
4.2.5 Sense data masking, 3rd paragraph
E
(Technical) In the statement << These values are vendor-specific.>> it is not
clear what value are VS. I certainly hope you are not expecting
vendor-specific statuses and sense data. If so you have a major problem that
needs to be fixed.

IBM (Penokie)-148
PDF pg 30, pg 18,
4.2.5 Sense data masking, 4th paragraph
E
The statement << If the data transfer device implements sense data masking,
then when it begins loading a medium it shall enter masking mode. The device
shall exit masking mode when any of the following events occur: >> should be
<< If implemented, the data transfer device shall enable sense data masking
when it begins loading a medium. The data transfer device shall disable sense
data masking after any of the following occur:>>.

IBM (Penokie)-149
PDF pg 30, pg 18,
4.2.5 Sense data masking, 2nd Item
E
(Technical) The is no definition or description of what a <<SM_TOV (SENSE
MASKING TIMEOUT VALUE) >> is or does. This needs to be fixed or removed.

IBM (Penokie)-150
PDF pg 30, pg 18,
4.2.5 Sense data masking, 3rd list item
E
The statement << LDFAIL field set to one >> should be << LDFAIL bit set to
one >>.

IBM (Penokie)-151
PDF pg 30, pg 18,
4.2.5 Sense data masking, Bulleted list
E
There should be no bulleted lists in this standard. That is not a convention
used in SCSI standards. All bulleted lists should be changed to a,b,c lists or
1,2,3 lists in the proper format. (i.e., semicolons after each list item and a
'and' or 'or' on the second to the last item in the list.

IBM (Penokie)-152
PDF pg 30, pg 18,
4.2.5 Sense data masking, 2nd to last paragraph
E
The statement << shall remain in masking mode and the SM_TOV >> should be <<

shall not disable the sense data masking and the SM_TOV >> .

IBM (Penokie)-153
PDF pg 30, pg 18,
4.2.5 Sense data masking, 2nd to last paragraph
E
The statement << then the data transfer device shall exit masking mode. >>
should be << then the data transfer device shall disable the sense data
masking. >>.

IBM (Penokie)-154
PDF pg 30, pg 18,
4.2.5 Sense data masking, Last paragraph
E
The statement <<is vendor-specific, and is not described by this standard.>>
is redundant. It is either vendor-specific or not described by this standard
but it cannot be both. Pick one.

IBM (Penokie)-155
PDF pg 30, pg 18,
4.2.6 Tape Alert application client interface, 2nd paragraph
E
The statement << state flags are not affected by port logins. >> should be
<<
state flags are not affected port events (e.g., port logins). >>

IBM (Penokie)-156
PDF pg 30, pg 18,
4.2.6 Tape Alert application client interface, 3rd paragraph
E
The statement << As such, >> carries no meaningful information and should be
deleted.

IBM (Penokie)-157
PDF pg 30, pg 18,
4.2.6 Tape Alert application client interface, 3rd paragraph
E
The statement <<as desired.>> carries no meaningful information and should
be
deleted.

IBM (Penokie)-158
PDF pg 30, pg 18,
4.2.6 Tape Alert application client interface, 4th paragraph
E
The statement << ADC device server sets the TapeAlert Flags Changed (TAFC)
field in the VHF data. >> should be << ADC device server sets the TAFC bit
to
one in the VHF data. >>

IBM (Penokie)-159
PDF pg 30, pg 18,
4.2.6 Tape Alert application client interface, 5th paragraph
E
The statement << shall not reset the state flags >> should be << shall not
clear the state flags >> to be consistent with other text in this section.

IBM (Penokie)-160
PDF pg 31, pg 19,
4.2.6 Tape Alert application client interface, 6th paragraph
E
The statement << state flags will be reported as new states following the
power cycle as conditions warrant. >> should be << state flags shall be
reported as new states following the power cycle. >>.

IBM (Penokie)-161
PDF pg 31, pg 19,
4.2.6 Tape Alert application client interface, 6th paragraph
E
The statement << events that reset state flags are described in table 5.I >>
should be << events that clear state flags are described in table 5. >>.

IBM (Penokie)-162
PDF pg 31, pg 19,
4.2.6 Tape Alert application client interface, Table 5 (Global)
E
Any table that extends across more that one page needs the << (x of x) >>
notation at the end of the title. This easily done in Frame.

IBM (Penokie)-163
PDF pg 32, pg 20,
4.2.6 Tape Alert application client interface, 2nd to last paragraph
E
The statement << Many of the state flags are reset at the start of next >>
should be << Many of the state flags are cleared at the start of next >>

IBM (Penokie)-164
PDF pg 32, pg 20,

4.2.6 Tape Alert application client interface, 2nd to last paragraph
E
The statement << Starting with no media present, this is defined to be
coincident with entering the next load state upon transition from load state
(a) (see table 1). >> Make no sense and needs to be fixed.

IBM (Penokie)-165
PDF pg 32, pg 20,
4.2.6 Tape Alert application client interface, 2nd to last paragraph
E
The statement <<The next load state entered will vary by DTD. >> should be
<<
The next load state entered varies by DTD. >> .

IBM (Penokie)-166
PDF pg 32, pg 20,
4.2.6 Tape Alert application client interface, 2nd to last paragraph
E
The statement << unload hold point (unload state (e) or (f) in table 3), >>
should be << unload hold point (i.e., unload state (e) or (f) in table 3),
>>

IBM (Penokie)-167
PDF pg 32, pg 20,
4.2.6 Tape Alert application client interface, Last paragraph
E
The statement << Other state flags are reset following resolution through >>
should be << Other state flags are cleared following resolution through >>.

IBM (Penokie)-168
PDF pg 32, pg 20,
4.2.6 Tape Alert application client interface, Last paragraph
E
The statement << Service resolution may involve support from the
manufacturer
or manual intervention by the user, and is beyond the scope of this
specification. >> should be << Service resolution is beyond the scope of
this
specification. >>

IBM (Penokie)-169
PDF pg 32, pg 20,
4.2.7 Medium Auxiliary Memory attributes
E
The statement << If the library needs to modify one >> should be << If the
library is required to modify one >> .

IBM (Penokie)-170
PDF pg 32, pg 20,
Global
E
The term << library >> is not defined. This term needs to be defined,
removed,
or replaced with a term that is defined in all places it is used.

IBM (Penokie)-171
PDF pg 32, pg 20,
4.2.8 Enabling and disabling DTD primary ports, 1st paragraph
E
The statement << enabled via MODE SELECT commands >> should be << enabled
via
MODE SELECT commands (see SPC-3) >>

IBM (Penokie)-172
PDF pg 33, pg 21,
4.2.8 Enabling and disabling DTD primary ports, 2nd paragraph
E
The statement << transport-level actions, such as SCSI Bus Reset or the
Fibre
Channel Loop Initialization or Loop Port Enable primitives. >> should be <<

transport-level actions (e.g., SCSI Bus Reset, the Fibre Channel Loop
Initialization, or Loop Port Enable primitives\

IBM (Penokie)-173
PDF pg 33, pg 21,
4.2.8 Enabling and disabling DTD primary ports, 3rd paragraph
E
The statement << When an enabled port is disabled, >> should be << When a
port
is disabled, >>

IBM (Penokie)-174
PDF pg 33, pg 21,
4.2.9 Device reservations and command behavior, 1st paragraph
E
The statement << implements four classes of commands: >> should be <<
implements the following classes of commands: >>

IBM (Penokie)-175
PDF pg 33, pg 21,
4.2.9 Device reservations and command behavior, Item 1
E
The statement << Commands which are >> should be << Commands that are >>.

IBM (Penokie)-176
PDF pg 33, pg 21,
4.2.9 Device reservations and command behavior, item 1
E
The statement << device types - INQUIRY, TEST UNIT READY, and REQUEST SENSE.
>> should be << device types (see SPC-3); >>.

IBM (Penokie)-177
PDF pg 33, pg 21,
4.2.9 Device reservations and command behavior
E
The 1,2,3 list is not an ordered list and therefore should be an a,b,c list.
And the list should be placed in the correct format (see global comment).

IBM (Penokie)-178
PDF pg 33, pg 21,
4.2.9 Device reservations and command behavior, Item 2
E
The statement << Commands which must always ignore reservations placed by
other initiators - such as LOAD UNLOAD. >> should be << Commands required to
always ignore reservations placed by other initiators (e.g., LOAD UNLOAD);
>>

IBM (Penokie)-179
PDF pg 33, pg 21,
4.2.9 Device reservations and command behavior, item 3
E
The statement << Commands which must ignore reservations for some values of
command parameters, such as MODE SELECT. >> should be << Commands required
to
ignore reservations for some values of command parameters (e.g., MODE
SELECT);
and >>

IBM (Penokie)-180
PDF pg 33, pg 21,
4.2.9 Device reservations and command behavior, Item 4
E
The statement << Vendor unique commands; the device vendor is responsible
for
avoiding reservation conflicts. >> should be << Vendor specific commands. >>
The part about avoiding reservation conflicts is not some that the standard
can specific on vendor specific things.

IBM (Penokie)-181
PDF pg 33, pg 21,

4.2.10 Sequential mode operation, 1st paragraph
E
The statement << Some automation devices support a mode of operation
referred
to as 'sequential mode'. >> should be << Some automation devices support a
sequential mode of operation. >> .

IBM (Penokie)-182
PDF pg 33, pg 21,
4.2.10 Sequential mode operation, 1st paragraph
E
The statement << configured in this mode, >> should be << configured in the
sequential mode, >>.

IBM (Penokie)-183
PDF pg 33, pg 21,
4.2.10 Sequential mode operation, 1st paragraph
E
The statement << In this mode the automation device implicitly >> should be
<<
In the sequential mode the automation device implicitly >>

IBM (Penokie)-184
PDF pg 33, pg 21,
4.2.10 Sequential mode operation, 1st paragraph
E
The statement << A typical sequence of operations would be as follows: >>
should be << A typical sequence of operations follows: >>

IBM (Penokie)-185
PDF pg 33, pg 21,
4.2.10 Sequential mode operation
E
The 1,2,3 list is not in the correct format. See global comment.

IBM (Penokie)-186
PDF pg 33, pg 21,
4.2.10 Sequential mode operation, Item 5
E
The statement << and the backup can proceed. >> should be << and the backup
proceeds. >>

IBM (Penokie)-187
PDF pg 33, pg 21,
4.2.10 Sequential mode operation, Last paragraph
E
The statement << may use the host initiated unload bit in the VHF >> should
be
<< may use the HIU bit in the VHF >>.

IBM (Penokie)-188
PDF pg 33, pg 21,
4.2.10 Sequential mode operation, Last paragraph
E
The statement <<(see clause 6.1.2.1) >> should be << (see 6.1.2.1) >>.

IBM (Penokie)-189
PDF pg 34, pg 22,
5.1 Summary of commands for automation drive interface devices, Table 6
(Global)
E
This is not the correct format for notes in tables see SAS, SAM-3 or SPC-3
for
example on how table notes should be done.

IBM (Penokie)-190
PDF pg 34, pg 22,
5.1 Summary of commands for automation drive interface devices, Table 6
E
The statement << medium, such that the logical unit is able to accept these

identified medium-access commands without returning CHECK CONDITION status.
>>
should be << medium (i.e., the logical unit is able to accept these
identified
medium-access commands without returning CHECK CONDITION status). >>

IBM (Penokie)-191
PDF pg 34, pg 22,
5.1 Summary of commands for automation drive interface devices, Table 6
E
The term << vendor unique >> should be << vendor specific >>.

IBM (Penokie)-192
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 1st paragraph
E
The statement << Implementation of this command is mandatory. >> is not
needed
as the command is already stated as being mandatory in table 6. Delete the
text.

IBM (Penokie)-193
PDF pg 35, pg 23,
Global
E
A one bit field is not called a << field >> but a <<bit >>. To be a field
the
number of bits has to be greater than 1. This needs to be corrected in all
cases in this standard.

IBM (Penokie)-194
PDF pg 35, pg 23,
Global
E
The term << recovery requested >>is a field name and therefore should be in
small caps. This is true for all field and bit names. This needs to be
checked and fixed throughout this standard. However in this specific case
this
is a bit and should use the proper bit name of << RRQST >>. The statement
then
becomes << that the RRQST bit in the VHF DATA DESCRIPTOR is set to one while
>>

IBM (Penokie)-195
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 1st paragraph after table 7
E
The term << VHF data >> appears to be incorrect in that the thing called VHF
data looks like a descriptor not a field. I suggest the name be changed to
<<
VHF DATA DESCRIPTOR >> all small caps.

IBM (Penokie)-196
PDF pg 35, pg 23,
Global
E
All references to subclauses (i.e., that's anything except the first level
of
a section (e.g., 1 or 2 or 3) have to be (see x.x.x). This has to be fixed
in
all cases in this standard.

IBM (Penokie)-197
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 1st paragraph after table 7
E
The statement << the automation device will not attempt any additional
recovery. >> should be << the automation device shall not attempt any
additional recovery. >>

IBM (Penokie)-198
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 2nd paragraph after table 7
E
The statement << The fields in byte 3 are collectively known as the bridging status byte and >> should be << The bits in byte 3 are collectively known as the bridging status and >>

IBM (Penokie)-199
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 3rd paragraph after table 7
E
The statement << A value of one in the mode data changed (MDC) field indicates
<< should be << A mode data changed (MDC) bit set to one indicates >>

IBM (Penokie)-200
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 3rd paragraph after table 7
E
The statement << A value of zero indicates >> should be << A MDC bit set to zero indicates >>.

IBM (Penokie)-201
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 4th paragraph after table 7
E
The statement << A value of one in the inquiry data changed (IDC) field indicates >> should be << An inquiry data changed (IDC) bit set to one indicates >>.

IBM (Penokie)-202
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 4th paragraph after table 7
E
The statement << A value of zero indicates >> should be << An IDC bit set to zero indicates. >>

IBM (Penokie)-203
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 5th paragraph after table 7
E
The statement << A value of one in the not ready status changed (NRSC) field indicates >> should be << A not ready status changed (NRSC) bit set to one indicates >>.

IBM (Penokie)-204
PDF pg 35, pg 23,
5.2 NOTIFY DATA TRANSFER DEVICE command, 5th paragraph after table 7
E
The statement << It can also indicate >> should be << It may also indicate >>.

IBM (Penokie)-205
PDF pg 36, pg 24,
5.2 NOTIFY DATA TRANSFER DEVICE command, 5th paragraph after table 7
E
The statement << When NRSC is one, the>> should be << When the NRSC bit is set
to one, the>>.

IBM (Penokie)-206
PDF pg 36, pg 24,
5.2 NOTIFY DATA TRANSFER DEVICE command, 5th paragraph after table 7
E
The statement << A value of zero indicates >> should be << An NRSC bit set to
zero indicates. >>

IBM (Penokie)-207

PDF pg 36, pg 24,
5.2 NOTIFY DATA TRANSFER DEVICE command, 5th paragraph after table 7
E
It is not clear what term << Not Ready status >> is referring to as there is not such status in SCSI. The is a NOT READY sense key and there is the concept
of a device being not ready but there is no not ready status. Nor is any defined in this standard, So I don't know what it is or means. This needs to be fixed. Also whatever it is should not be capitalized.

IBM (Penokie)-208
PDF pg 36, pg 24,
5.2 NOTIFY DATA TRANSFER DEVICE command, 7th paragraph after table 7
E
The statement << When the broadcast unit attention (BUA) field is set to one,
>> should be << A broadcast unit attention (BUA) bit set to one indicates >>

IBM (Penokie)-209
PDF pg 36, pg 24,
5.2 NOTIFY DATA TRANSFER DEVICE command
E
The BUA and NRSC bits interact with one another and as such should both be defined in a single table that describes there interactions.

IBM (Penokie)-210
PDF pg 36, pg 24,
5.2 NOTIFY DATA TRANSFER DEVICE command, Last paragraph
E
The term << Moreover >> should be deleted as it contains no useful information.

IBM (Penokie)-211
PDF pg 37, pg 25,
6.1.1 Log parameters overview, Last paragraph
E
The statement << servers in the same target shall be independent. >> should be
<< servers in the same target device shall be independent. >>

IBM (Penokie)-212
PDF pg 37, pg 25,
6.1.1 Log parameters overview, Last paragraph
E
The statement << independent. That is, changes to log parameters caused by either LOG SELECT commands or other device operation of an RMC device server shall not be reflected by changes in the corresponding parameters reported by
the ADC device server. Changes in log parameters caused by either LOG SELECT commands or other device operation of an ADC device server shall not be reflected by changes in the corresponding parameters reported by the RMC device server. >> should be << independent (i.e., changes to log parameters caused by either LOG SELECT commands or other device operation of an RMC device server shall not be reflected by changes in the corresponding parameters reported by the ADC device server. Changes in log parameters caused
by either LOG SELECT commands or other device operation of an ADC device server shall not be reflected by changes in the corresponding parameters reported by the RMC device server). >>

IBM (Penokie)-213
PDF pg 37, pg 25,
6.1.2 DTD Status log page, 1st paragraph
E
The statement << The DTD Status log page (see table 9\

IBM (Penokie)-214
PDF pg 37, pg 25,
6.1.2 DTD Status log page
E

The text and tables between 6.1.2 and 6.1.2.1 is hanging. This needs to be fixed.

IBM (Penokie)-215
PDF pg 37, pg 25,
6.1.2 DTD Status log page, 2nd paragraph
E
The statement << Refer to SPC-2 for a description >> should be << See SPC-2 for a description >>

IBM (Penokie)-216
PDF pg 38, pg 26,
6.1.2.1 Very High Frequency Data log parameter, Table 11
E
The field << VHF DATA>> should be << VHF DATA DESCRIPTOR >>

IBM (Penokie)-217
PDF pg 38, pg 26,
6.1.2.1 Very High Frequency Data log parameter, 4th paragraph
E
The statement << Refer to table 12 for a description of the VHF DATA. >> should be << See table 12 for a description of the VHF DATA DESCRIPTOR. >>

IBM (Penokie)-218
PDF pg 38, pg 26,
6.1.2.1 Very High Frequency Data log parameter, 1st paragraph after table 12
E
The statement << The HIU bit shall be to zero when the >> should be << The HIU
bit shall be set to zero when the >>

IBM (Penokie)-219
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, note 2
E
The statement << described in clause 4.2.10 >> should be << described in 4.2.10 >>.

IBM (Penokie)-220
PDF pg 39, pg 27,
Global
E
All bit definitions paragraphs in this section The statement << A value of one in the whatever (XXXX) field indicates >> should be << A whatever (XXXX) bit set to one indicates >>.

IBM (Penokie)-221
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after table 12
E
The statement << Media Auxiliary Memory (MAM) can be accessed. >> should be <<
Media Auxiliary Memory (MAM) is accessible. >>

IBM (Penokie)-222
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after table 12
E
The statement <<A value of zero indicates that the MAM cannot be accessed. >>
should be << A MACC bit set to zero indicates the MAM is not accessible. >>

IBM (Penokie)-223
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after table 12
E
The statement << When set to one, the DTD shall >> should be << If the MACC bit is set to one, the DTD shall >>.

IBM (Penokie)-224

PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after table 12
E
The statement << If supported, this field should only be set to one in conjunction >> should be << If the MACC bit is supported it should only be set
to one in conjunction >>.

IBM (Penokie)-225
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after table 12
E
The statement << be set to one in conjunction with Media Present. >> should be
<< be set to one in if the MPRSNT bit is set to one. >>

IBM (Penokie)-226
PDF pg 39, pg 27,
Global
E
All bit definitions paragraphs in this section Every << a value of zero >> statement should be << A XXXX bit set to zero >>.

IBM (Penokie)-227
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, NOTE 3
E
This note looks like normative text and as such should be in-line text not a note.

IBM (Penokie)-228
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 1st paragraph before note 4
E
The statement << This field is only valid if media present is one, and should
be set to zero when no media is present in the DTD. >> should be << The WRTP bit is only valid if the MPRSNT bit is set to one,. The WRPT bit should be set to zero if the MPRSNT bit is set to zero. >>

IBM (Penokie)-229
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, Note 4
E
The statement << 'Physically write protected' refers to any mechanism >> should be << Physically write protected refers to any mechanism >>

IBM (Penokie)-230
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, Note 4
E
The statement << protect the media, such as sliding windows or tabs, and not logical >> should be << protect the media (e.g., sliding windows or tabsO and
not logical >>.

IBM (Penokie)-231
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after note 4
E
The statement << cleaning operation must be done before a data cartridge can reach the data accessible state, >> should be << cleaning operation shall be completed before a data cartridge reaches the data accessible state, >>

IBM (Penokie)-232
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after note 4
E
The statement << This field shall take priority over clean requested. It shall

not be considered an error for both fields to be set to one. >> should be <<
The CRQRD bit shall take priority over CRQST bit. It shall not be considered
an error for both the CRQRD bit and the CRQST bit to be set to one. >>

IBM (Penokie)-233
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 3rd paragraph after note 4
E
The statement << This field should be monitored for a value of one before
relying on any other fields in the VERY HIGH FREQUENCY DATA log parameter.
>>
should be << The DINIT bit should be set to one before relying on any other
bits in the Very High Frequency Data log parameter. >>

IBM (Penokie)-234
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 4th paragraph after note 4
E
The statement << governs the remaining fields within byte 9 to >> should be
<<
governs the remaining bits within byte 9 to >>

IBM (Penokie)-235
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 4th paragraph after note 4
E
The statement << is in transition, as the DTD is attempting to go to another
state. >> should be << is in transition, as the DTD is transitioning to
another state. >>

IBM (Penokie)-236
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 4th paragraph after note 4
E
The statement << the in transition field shall be set to 0. >> should be <<
the INXTN bit shall be set to 0. >>

IBM (Penokie)-237
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 5th paragraph after note 4
E
The statement << by the robotics if it is reasonably certain that media can
be
successfully inserted into or >> should be << by the robotics if media may
be successfully inserted into or >>.

IBM (Penokie)-238
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 1st paragraph after note 5
E
The statement <<This would typically be a direct reflection of some type of
hardware sensor. >> should be deleted as it contains no useful standard
information.

IBM (Penokie)-239
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after note 5
E
The statement << mechanism. This means that the physical loading process has
completed. >> should be << mechanism (i.e., the physical loading process has
completed). >>

IBM (Penokie)-240
PDF pg 39, pg 27,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after note 5
E
The statement << loading process (exclusive of tape threading). >> should be
<< loading process, exclusive of tape threading. >>

IBM (Penokie)-241

PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, Note 6
E
The statement << This may or may not correspond to the drive responding 'Ready' to a TEST UNIT READY command, as additional processing may be required by the drive after threading to achieve a SCSI 'Ready' state. >> should be << This may or may not correspond to the drive responding to a TEST UNIT READY command with a status of GOOD, as additional processing may be required by the drive after threading to before the logical unit becomes ready. >>

IBM (Penokie)-242
PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, 1st paragraph after note 6
E
The statement << It typically corresponds to the RMC device server being able to respond 'Ready' to a TEST UNIT READY command (when cleaning or microcode image media are loaded the RMC device server may respond 'Not Ready' to a TEST UNIT READY command). >> should be << The DACC bit set to one may correspond to the RMC device server being able to respond to a TEST UNIT READY command with a status for GOOD however when cleaning or microcode image media are loaded the RMC device server may respond to a TEST UNIT READY command with a CHECK CONDITON with the sense key set to NOT READY. >>

IBM (Penokie)-243
PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, 1st paragraph after note 6
E
The statement << It is reset to zero at the beginning of the >> should be <<

The DACC bit is set to zero at the beginning of the >>.

IBM (Penokie)-244
PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, Table 13
E
The term << vendor unique >> should be << vendor specific >>.

IBM (Penokie)-245
PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, 1st paragraph after table 13
E
The statement << This field shall remain set to one as long as a recovery procedure is available. When this field is set to one, the in transition (InXtn) field shall be set to zero. >> should be << The RRQST bit shall remain set to one as long as a recovery procedure is available. When the RPQST bit is set to one, the in INXTN bit shall be set to zero. >>

IBM (Penokie)-246
PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, 1st paragraph after note 7
E
The statement << This field is reset to zero after retrieval of any >> should be << The INTFC bit is set to zero after retrieval of any >>

IBM (Penokie)-247
PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after note 7
E
The statement << resets this field to zero after retrieval of the TapeAlert >> should be << sets the TAFC bit to zero after retrieval of the TapeAlert >>

IBM (Penokie)-248
PDF pg 40, pg 28,
6.1.2.1 Very High Frequency Data log parameter, 2nd paragraph after note 7
E
The statement << It is possible to not find any difference in the >> should
be
<< There may not be any difference in the >>

IBM (Penokie)-249
PDF pg 41, pg 29,
6.1.2.1 Very High Frequency Data log parameter, NOTE 8
E
Note 8 looks like normative text and as such should be main line text.

IBM (Penokie)-250
PDF pg 41, pg 29,
6.1.2.1 Very High Frequency Data log parameter, Note 8
E
The statement << This field should be processed following the DINIT field.
Pending TapeAlert state flags may affect the reliability of the values
returned in other fields. >> should be << The TAFC bit should be processed
following the DINIT bit. Pending TapeAlert state flags may affect the
reliability of the values returned in other bits within the VHF DATA
DESCRIPTOR. >>

IBM (Penokie)-251
PDF pg 41, pg 29,
6.1.2.3 DTD Primary Port Status log parameter(s)
E
The text and tables between 6.1.2.3 and 6.1.2.3.1 is hanging. This needs to
be
fixed.

IBM (Penokie)-252
PDF pg 41, pg 29,
6.1.2.3 DTD Primary Port Status log parameter(s), 2nd paragraph
E
The statement << as assigned by the DTD, which uniquely identifies >> should
be << as assigned by the DTD, that uniquely identifies >>

IBM (Penokie)-253
PDF pg 41, pg 29,
6.1.2.3 DTD Primary Port Status log parameter(s), 2nd paragraph
E
The statement << defined in clause 6.2.2.2.1. >> should be << defined in
6.2.2.2.1. >>

IBM (Penokie)-254
PDF pg 42, pg 30,
Global
E
All bit definitions paragraphs in this section The statement << A value of
one in the whatever (XXXX) field indicates >> should be << A whatever (XXXX)
bit set to one indicates >>.

IBM (Penokie)-255
PDF pg 42, pg 30,
6.1.2.3.1 Fibre Channel Status Data, 2nd paragraph
E
The statement << not complete. An example of a link negotiation process is
the
loop initialization process (LIP). >> should be << not complete (e.g.,. a
loop initialization process (LIP)). >>

IBM (Penokie)-256
PDF pg 42, pg 30,
Global
E
All bit definitions paragraphs in this section Every << a value of zero >>
statement should be << A XXXX bit set to zero >>.

IBM (Penokie)-257
PDF pg 42, pg 30,
6.1.2.3.1 Fibre Channel Status Data
E
Using the references to LIP and AL_PA etc. in this section require a
normative
reference to FC-AL-2 be added to the references section.

IBM (Penokie)-258
PDF pg 42, pg 30,
6.1.2.3.1 Fibre Channel Status Data, 3rd paragraph
E
The statement << not detected. An example of signal detection is detection
of
light for an optical medium. >> should be << not detected (e.g., detection
of
light for an optical medium). >>.

IBM (Penokie)-259
PDF pg 42, pg 30,
6.1.2.3.1 Fibre Channel Status Data, 5th paragraph
E
The statement << The valid values can be found in table 34 in clause
6.2.2.2.2. This field is undefined when the LNPC field is set to zero. >>
should be << The valid values for the CURRENT SPEED field are shown in table
34. If the LNPC bit is set to zero the CURRENT SPEED field shall be ignored.
>>

IBM (Penokie)-260
PDF pg 42, pg 30,
6.1.2.3.1 Fibre Channel Status Data, 6th paragraph
E
The statement << This field is undefined when the LNPC field is set to zero.
>> should be << If the LNPC bit is set to zero the CURRTOP bit shall be
ignored. >>

IBM (Penokie)-261
PDF pg 42, pg 30,
6.1.2.3.1 Fibre Channel Status Data, Last paragraph
E
The statement << 24-bit N_Port_ID (as defined by FC-FS\

IBM (Penokie)-262
PDF pg 42, pg 30,
6.1.2.3.1 Fibre Channel Status Data, Last paragraph
E
The statement << This field is undefined when the LNPC field is set to zero.
>> should be << If the LNPC bit is set to zero the CURRENT N_PORT_ID field
shall be ignored. >>

IBM (Penokie)-263
PDF pg 42, pg 30,
6.1.2.3.2 Parallel SCSI Status Data
E
The title of the << Parallel SCSI Status Data >> section should be << SCSI
Parallel Interface Status Data>>.

IBM (Penokie)-264
PDF pg 42, pg 30,
6.1.2.3.2 Parallel SCSI Status Data, 1st paragraph
E
The statement << Port Status data for a Parallel SCSI port is shown in >>
should be << Port Status data for a SCSI port that support parallel
transfers
(see SPI-5) is shown in >>

IBM (Penokie)-265
PDF pg 42, pg 30,
6.1.2.3.2 Parallel SCSI Status Data, Table 17

E
The title of table 17 << Parallel SCSI Status data >> should be << SCSI
Parallel Interface Status data>>

IBM (Penokie)-266
PDF pg 42, pg 30,
6.1.2.3.2 Parallel SCSI Status Data, 2nd paragraph
E
The statement << port is operating currently. The valid values can be found
in
the SCSI Parallel Interface - 4 (SPI-4) standard. >> should be << port is
operating currently (see SPI-5).

IBM (Penokie)-267
PDF pg 43, pg 31,
6.1.2.3.2 Parallel SCSI Status Data, 3rd paragraph
E
The statement << was negotiated most recently. The valid values can be found
in the SCSI Parallel Interface - 4 (SPI-4) standard. >> should be << was
negotiated most recently (see SPI-5). >>

IBM (Penokie)-268
PDF pg 44, pg 32,
6.1.4 Requested Recovery log page, Table 19
E
The term << Most preferred recovery procedure >> should be << RECOVERY
PROCEDURE (first) >>. The order preference would be in the text per comment
below.

IBM (Penokie)-269
PDF pg 44, pg 32,
6.1.4 Requested Recovery log page, Table 19
E
The term << Least preferred recovery procedure >> should be << RECOVERY
PROCEDURE (last) >>. The order preference would be in the text per comment
below.

IBM (Penokie)-270
PDF pg 44, pg 32,
6.1.4 Requested Recovery log page, 2nd paragraph after table 19
E
The statement << The values reported in the recovery procedure fields are
defined in table 20. >> should be << The RECOVERY PROCEDURE fields specify a
list of recovery procedures (see table 20) listed in order from the most
preferred to the least preferred action. >>

IBM (Penokie)-271
PDF pg 44, pg 32,
6.1.4 Requested Recovery log page, Table 20 (global)
E
No table should cross a page boundary unless it will not fit on one page. If
it will not fit on one page then it needs the << (x of x) >> notation.

IBM (Penokie)-272
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, Table 20
E
The term << vendor unique >> should be << vendor specific >>.

IBM (Penokie)-273
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 1st paragraph after table 20
E
The statement << If the Requested Recovery log page is requested when the
RRQST field in the Very High Frequency Data log parameter is zero, then a
recovery action of 00h (Recovery not requested) shall be reported. >> should
be << If the Requested Recovery log page is requested and the RRQST bit (see
x.x.x.) is set to zero, then a recovery procedure of 00h (i.e., Recovery not
requested) shall be reported. >>

IBM (Penokie)-274
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 2nd paragraph after table 20
E
The statement << If the requested recovery procedure will cause the data transfer >> should be << If the requested recovery procedure causes the data transfer >>.

IBM (Penokie)-275
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 2nd paragraph after table 20
E
The statement << shall ensure that there will not be a conflict with the motion >> should be << shall ensure there is not conflict between the automation device and the motion >>.

IBM (Penokie)-276
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 3rd paragraph after table 20
E
The statement << is 09h (Contact service organization), >> should be << is 09h
(i.e., Contact service organization), >>

IBM (Penokie)-277
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 4th paragraph after table 20
E
The statement << is 0Ah (Issue UNLOAD command, remove, and quarantine medium),
>> should be << is 0Ah (i.e., Issue UNLOAD command, remove, and quarantine medium), >>

IBM (Penokie)-278
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 5th paragraph after table 20
E
The statement << is 0Bh (Do not insert medium), a non-recoverable >> should be
<< is 0Bh (i.e., Do not insert medium), a non-recoverable >> .

IBM (Penokie)-279
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 5th paragraph after table 20
E
The statement <<When this recovery procedure is requested, then the robotic access allowed (RAA) field in the Very High Frequency Data shall be set to zero, and no other recovery procedures shall be reported. >> should be << If the 0Bh recovery procedure is requested, then the robotic access allowed (RAA)
bit (see x.x.x\

IBM (Penokie)-280
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 6th paragraph under table 20
E
The statement << is 0Ch (Issue UNLOAD command, remove medium, and contact service organization), a non-recoverable >> should be << is 0Ch (i.e., issue UNLOAD command, remove medium, and contact service organization), a non-recoverable >>

IBM (Penokie)-281
PDF pg 45, pg 33,
6.1.4 Requested Recovery log page, 6th paragraph under table 20
E
The statement <<When this recovery procedure is requested and the medium is accordingly removed, then the robotic access allowed (RAA) field in the Very High Frequency Data shall be set to zero, and no other recovery procedures shall be reported. >> should be << If the 0Ch recovery procedure is

requested
and the medium is removed, then the robotic access allowed (RAA) bit (see
x.x.x) shall be set to zero, and no other recovery procedures shall be
reported. >>.

IBM (Penokie)-282
PDF pg 45, pg 33,
6.1.5 Device Statistics log page, 1st paragraph
E
(Technical) The statement << Parameters can not be reset or changed via LOG
SELECT. >> should be << Parameters shall not be reset or changed via LOG
SELECT. >>.

IBM (Penokie)-283
PDF pg 45, pg 33,
6.1.5 Device Statistics log page, Table 21
E
The statement << First device statistics parameter >> should be << DEVICE
STATISTICS PARAMETER (first) >>

IBM (Penokie)-284
PDF pg 45, pg 33,
6.1.5 Device Statistics log page, Table 21
E
The statement << Last device statistics parameter >> should be << DEVICE
STATISTICS PARAMETER (last) >>

IBM (Penokie)-285
PDF pg 46, pg 34,
6.1.5 Device Statistics log page, 1st paragraph after table 21
E
The statement << Refer to SPC-2 for a >> should be << See SPC-3 for a >>

IBM (Penokie)-286
PDF pg 46, pg 34,
6.1.5 Device Statistics log page, Table 22
E
The column title << Parameter Code >> should be << Code >>.

IBM (Penokie)-287
PDF pg 46, pg 34,
6.2.1 Mode parameters overview, 2nd paragraph
E
The statement << The mode parameter list, including the mode parameter
header
and mode block descriptor, are in SPC-2. >> should be << See SPC-3 for the
mode parameter list, including the mode parameter header and mode block
descriptor.>>.

IBM (Penokie)-288
PDF pg 46, pg 34,
6.2.1 Mode parameters overview, Note 9
E
This does not look like a note and instead should be main line text and
changed from << The ADC device server may require that the DTD primary
port(s)
be disabled before certain mode parameters can be changed. >> to << The ADC
device server may require that the DTD primary port(s) be disabled before
certain mode parameters are allowed to be changed (see x.x.x.). >>. There
needs to be a reference to the mode parameters or a list of mode parameters
being talked about here.

IBM (Penokie)-289
PDF pg 47, pg 35,
6.2.2 ADC Device Configuration mode page
E
The text and tables between 6.2.2 and 6.2.2.1 is hanging. This needs to be
fixed.

IBM (Penokie)-290

PDF pg 47, pg 35,
6.2.2 ADC Device Configuration mode page
E
Global: The term << sub-page >> should be changed to << subpage >> in all
cases.

IBM (Penokie)-291
PDF pg 47, pg 35,
6.2.2 ADC Device Configuration mode page, Table 26 (Global)
E
The subpage name << Node descriptor sub-page >> should be changed to << Node
subpage >>. The term descriptor noes not belong on the name of a mode page
be
it sub or not.

IBM (Penokie)-292
PDF pg 47, pg 35,
6.2.2 ADC Device Configuration mode page, Table 26 (Global)
E
The subpage name << DTD Primary Port descriptor sub-page >> should be << DTD
Primary Port subpage >>.

IBM (Penokie)-293
PDF pg 47, pg 35,
6.2.2 ADC Device Configuration mode page, Table 26 (Global)
E
The subpage name << Logical Unit descriptor sub-page >> should be << Logical
Unit subpage >>

IBM (Penokie)-294
PDF pg 47, pg 35,
6.2.2 ADC Device Configuration mode page, 1st paragraph after table 26
E
The statement << Each sub-page is comprised of one or more descriptors. >>
should be << Each subpage contains of one or more descriptors. >>

IBM (Penokie)-295
PDF pg 47, pg 35,
6.2.2.1 Node descriptor sub page
E
Title of this section should be << Node subpage >>.

IBM (Penokie)-296
PDF pg 47, pg 35,
6.2.2.1 Node descriptor sub page
E
(Technical) There is no definition of what a << node >> or a << target
device
Node >> is. Whatever it is needs to be clearly defined so there is no
confusion with it and a FC node which in itself is not will defined. One
solution would be to state << ADC device server's node. For a definition of
node see FC-FS. >>

IBM (Penokie)-297
PDF pg 47, pg 35,
6.2.2.1 Node descriptor sub page, 1st paragraph
E
The statement << The page is defined in table 27. >> should be << The
suppage
is defined in table 27. >>

IBM (Penokie)-298
PDF pg 47, pg 35,
6.2.2.1 Node descriptor sub page
E
There needs to be more description in the beginning of this section as to
what
the mode page is being used to control. This is especially true as it is
not
being used in the normal way, in that, normally this type of mode page is

defined at the protocol and used to control ports on that protocol. This
mode
page is being used to configure ports, other than the type that is receiving
the command.

IBM (Penokie)-299
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 27
E
The title of this table should be << Node subpage >>.

IBM (Penokie)-300
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page
E
The << MNN >> field name should be replaced with << MODIFY NODE NAME >>.
There is not reason for this field name to be made into an acronym. This
should be fixed in all places.

IBM (Penokie)-301
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, table 27
E
(Technical) There is not clear definition or format of what the WORLD WIDE
NODE NAME is or should be. This needs to be clearly defined. One solution is
to use FC terminology. To do that change the field name to << NAME IDENTIFIER
>>.

IBM (Penokie)-302
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, 1st paragraph after table 27
E
What is << devices Node_name, >> supposed to be. This term is not defined.
This needs to be fixed. Also, whatever it is should not be capitalized nor
have a << _ >> in it. One solution would be to change this to << ADC
device
server's node name (see FC-FS). >>.

IBM (Penokie)-303
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The column title << MNN >> should be << value >>.

IBM (Penokie)-304
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The title of the << MODE SENSE >> column should be << MODE SENSE command >>
and there should be a reference to a table foot note. That footnote should
state << See SPC-3 >>.

IBM (Penokie)-305
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The title of the << MODE SELECT >> column should be << MODE SELECT command
>>
and there should be a reference to a table foot note. That footnote should
state << See SPC-3 >>.

IBM (Penokie)-306
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The statement << This field shall be set to zero for a MODE SENSE>> should
be
placed in the paragraph above this table and be modified to << The MODIFY
NODE
NAME field shall be set to zero for a MODE SENSE command. >> And then give

the
CC/Key/ASC that would occur it is not set to zero.

IBM (Penokie)-307
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, table 28
E
The statement << Do not modify the nodes world wide name. The WWNN field shall
be ignored. >> should be << Do not modify the ADC device server node name
identifier (see FC-FS). The NAME IDENTIFIER field shall be ignored. >> In FC
the proper term in 'name identifier' not 'wide wide name'. This needs to be
changed in all cases.

IBM (Penokie)-308
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The is no definition for the term << WWNN >> and there is no such field
defined anywhere. This needs to be fixed. See other comments for possible
fix.

IBM (Penokie)-309
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The term << MODE SENSE. >> should be << MODE SENSE command. >>

IBM (Penokie)-310
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The statement << Use the World Wide Node Name for logical unit 0 as the
Node_Name. The value in the WWNN field shall be ignored. >> should be << Use
logical unit 0's logical unit name as the name identifier for the ADC device
server. The NAME IDENTIFIER field shall be ignored. >>

IBM (Penokie)-311
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The statement << Set the node's world wide name to the manufacturer's default
value. The value in the WWNN field shall be ignored. >> should be << Set the
node's name identifier to the manufacturer's default value. The NAME
IDENTIFIER field shall be ignored. >>

IBM (Penokie)-312
PDF pg 48, pg 36,
6.2.2.1 Node descriptor sub page, Table 28
E
The statement << Set the node's world wide name to the value in the WWNN
field. >> should be << Set the node's name identifier to the value in the NAME
IDENTIFIER field. >>

IBM (Penokie)-313
PDF pg 48, pg 36,
6.2.2.2 DTD Primary Port descriptor sub-page
E
The title of this section should be << DTD Primary Port subpage >>

IBM (Penokie)-314
PDF pg 48, pg 36,
6.2.2.2 DTD Primary Port descriptor sub-page, 1st paragraph
E
The statement << The DTD Primary Port descriptor sub-page is variable
length,

>> should be << The DTD Primary Port subpage is variable length, >>

IBM (Penokie)-315
PDF pg 49, pg 37,
6.2.2.2 DTD Primary Port descriptor sub-page, Table 29
E
The title of this table should be << DTD Primary Port subpage >>

IBM (Penokie)-316
PDF pg 49, pg 37,
6.2.2.2 DTD Primary Port descriptor sub-page, Table 29 (Global)
E
Descriptors are not in small caps.

IBM (Penokie)-317
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header
E
The title of this section should be << DTD Primary Port header >>

IBM (Penokie)-318
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, 1st paragraph
E
The statement << Each descriptor contains a common header to facilitate
parsing of the descriptors (see table 30). >> should be << Each descriptor
contains a common header (see table 30). >>. The deleted information
contains
no useful standards information.

IBM (Penokie)-319
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 30 title (Global)
E
The term << Primary Port >> should not be capitalized

IBM (Penokie)-320
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header
E
All references to << target port >> should be changed to << DTD primary port
>> in this section. That includes the names of the field << RELATIVE TARGET
PORT >> table 30.

IBM (Penokie)-321
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 30
E
The ADDITIONAL DESCRIPTOR LENGTH field needs to have a length indication for
example << (n-4) >>.

IBM (Penokie)-322
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 30
E
Rename << DTD PRIMARY PORT DESCRIPTOR PARAMETERS >> to << PORT DESCRIPTOR
>>.

IBM (Penokie)-323
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, 2nd paragraph
E
The term << device >> is used in several places. But it is not defined. It
should be qualified with the type of device being referred to (e.g.,
removable
medium device). This needs to be fixed.

IBM (Penokie)-324
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, 2nd paragraph under table 30

E
The statement <<The PORT TYPE indicates the type of protocol supported by
the
port. Values for this field are a subset of the protocol identifiers defined
in SPC-2. Legal values for this field can be found in table 31. >> should be
<< The PORT TYPE field (see table 31) indicates the type of protocol
supported
by the port. >>

IBM (Penokie)-325
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 31 title
E
The table title should be <<Port types >>.

IBM (Penokie)-326
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 31
E
The column title << Port Type >> should be << value >>.

IBM (Penokie)-327
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 31
E
The use of << H >> is not correct. It should be << h >>.

IBM (Penokie)-328
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 31
E
The statement << Fibre Channel (FCP, FCP-2) >> should be << Fibre Channel
(e.g., FCP-2) >>

IBM (Penokie)-329
PDF pg 49, pg 37,
6.2.2.2.1 DTD Primary Port descriptor header, Table 31
E
The statement << Parallel SCSI (SPI, SPI-2, SPI-3, SPI-4,\2O3) >> should be
<<
Parallel SCSI (e.g., SPI-5) >>

IBM (Penokie)-330
PDF pg 5O, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters
E
The section title << Fibre Channel descriptor parameters >> should be <<
Fibre
Channel port descriptor format >>.

IBM (Penokie)-331
PDF pg 5O, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters
E
There needs to be more description in the beginning of this section as to
what
the mode page descriptor is being used to control. This is especially true
as
 it is not being used in the normal way, in that, normally this type of mode
page descriptor is defined at the protocol and used to control ports on that
protocol. This mode page is being used to configure ports, other than the
type
that is receiving the command.

IBM (Penokie)-332
PDF pg 5O, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 32 title
E
The title for this table should be << Fibre Channel descriptor format >>

IBM (Penokie)-333
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 32
E
Change to << MPN >> to << MODIFY PORT NAME >>. There is no need to make an acronym here. Also replace the MPN acronym everywhere else in the standard.

IBM (Penokie)-334
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, 2nd paragraph
E
The statement << The port enable (PE) bit is set to one to enable the port. >>
should be << The port enable (PE) bit set to one enables the DTD's primary port. >>

IBM (Penokie)-335
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, 2nd paragraph
E
The statement << When it is set to zero, the port shall not enable its drivers
and shall not respond to primitives, e.g., LIP and LPE (see clause 4.2.8). >>
should be << When the PE bit is set to zero, the DTD device shall not enable the DTD primary port's drivers and the DTD primary port shall not respond to primitives (see FC-AL-2). >> The example is deleted because it is not necessary.

IBM (Penokie)-336
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, 3rd paragraph
E
Delete << (MPN) >> and make the name of the field in small caps.

IBM (Penokie)-337
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, 3rd paragraph
E
The statement << the device's port name, >> should be << the DTD primary port's name >>.

IBM (Penokie)-338
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 33
E
The column title << MPN >> should be << value >>.

IBM (Penokie)-339
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 33
E
The title of the << MODE SENSE >> column should be << MODE SENSE command >> and there should be a reference to a table foot note. That footnote should state << See SPC-3 >>.

IBM (Penokie)-340
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 33
E
The title of the << MODE SELECT >> column should be << MODE SELECT command >>
and there should be a reference to a table foot note. That footnote should state << See SPC-3 >>.

IBM (Penokie)-341
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 33
E
The statement << This field shall be set to zero for a MODE SENSE>> should

be
placed in the 3rd paragraph and be modified to << The MODIFY MODIFY PORT
NAME
field shall be set to zero for a MODE SENSE command. >> And then give the
CC/Key/ASC that would occur it is not set to zero.

IBM (Penokie)-342
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, table 33
E
The statement << Do not modify the port's world wide name. >> should be <<
Do
not modify the DTD's primary port's name identifier (see FC-FS). >> In FC
the
proper term in 'name identifier' not 'wide wide name'. This needs to be
changed in all cases.

IBM (Penokie)-343
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 33
E
There is no such field as << PORT_NAME >> there is a << PORT NAME >> however
but I don't know if that's the field you are referring to or not. This needs
to be fixed.

IBM (Penokie)-344
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 33
E
The term << MODE SENSE. >> should be << MODE SENSE command. >>

IBM (Penokie)-345
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, table 33
E
The statement << Do not modify the port's world wide name. >> should be <<
Do
not modify the DTD's primary port's name identifier. >>

IBM (Penokie)-346
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, table 33
E
The statement << Set the port's world wide name >> should be << Set the
port's
 name identifier. >>

IBM (Penokie)-347
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, Table 33
E
The statement << Set the port's world wide name to the value in the
PORT_NAME
field. >> should be << Set the port's name identifier to the value in the
PORT_NAME field. >> .

IBM (Penokie)-348
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters
E
(Technical) There are 2 bit defined (LIV and RHA) but there only appears to
be
two conditions specified. If both are zero then normal loop initialization
occurs. If LIV is one and RHA is zero then normal loop initialization
occurs.
If LIV is zero and RHA is one then there is an error. If both are one then
you
have the special case. It would make more sense to do this with one bit and
eliminate the possible error condition. It would also remove any confusion
over the RHA bit described in FCP-2. Make LIV set to 0 do the normal loop

initialization and LIV set to 1 do the special case. The resulting text would
be << A loop ID valid (LIV) bit is set to one indicates that the DTD primary port attached to an arbitrated loop shall attempt, during loop initialization,
to obtain its hard assigned AL_PA using the value in the FC-AL LOOP ID field.
The DTD primary port shall not attempt to obtain an AL_PA during the LISA phase of loop initialization (see FC-AL-2). If there is a conflict for the hard assigned AL_PA selection during loop initialization or the DTD primary port does not have a valid hard assigned AL_PA available, the DTD primary port
shall enter the nonparticipating state. If the DTD primary port detects loop initialization while in the nonparticipating state, the DTD primary port shall
again attempt to get it's hard assigned AL_PA. If the hard assigned AL_PA has
not changed from the address obtained in a previous successful loop initialization, the DTD primary port shall attempt to obtain the AL_PA in the
LIFA phase if a valid fabric login exists or LIPA phase of loop initialization. If the hard assigned AL_PA has changed, the DTD primary port
shall attempt to obtain the new AL_PA in the LIHA phase. A LIV bit set to zero
indicates the DTD primary port shall follow the normal loop initialization procedure.

IBM (Penokie)-349
PDF pg 50, pg 38,
6.2.2.2.2 Fibre Channel descriptor parameters, 2nd paragraph after table 33
E
The statement << bit of one indicates that a target attached to an arbitrated
loop shall >> should be << bit of one indicates that the DTD primary port attached to an arbitrated loop shall >> . In addition all the wording changes
in the general comment on this bit need to be applied even if that comment is
rejected.

IBM (Penokie)-350
PDF pg 51, pg 39,
6.2.2.2.2 Fibre Channel descriptor parameters, NOTE 10
E
(Technical) This note << Targets attached in point to point mode ignore the RHA and FC-AL LOOP ID fields. >> contains nominate requirements and needs to be moved into main line text. See comment on the P2P bit for a suggested placed of this requirement.

IBM (Penokie)-351
PDF pg 51, pg 39,
6.2.2.2.2 Fibre Channel descriptor parameters, 1st paragraph under note 10
E
(Technical) The statement << The point-to-point (P2P) is set to one to indicate the port is configured to operate in point to point mode. When set to
zero, the port is configured to operate in arbitrated loop mode. >> should be
<< A point-to-point (P2P\

IBM (Penokie)-352
PDF pg 51, pg 39,
6.2.2.2.2 Fibre Channel descriptor parameters, 2nd paragraph after note 10
E
The statement << the port may negotiate the topology >> give no reference as to where I would go to find out how this negotiation would be done or is that
outside the scope of this standard? In any case this needs to be fixed.

IBM (Penokie)-353
PDF pg 51, pg 39,
6.2.2.2.2 Fibre Channel descriptor parameters, 2nd paragraph after note 10
E
The statement << The topology lock (TOPLOCK) bit is set to one to force the port to operate only in the mode selected by the P2P bit. When set to zero, the port may negotiate the topology and select the appropriate one. When this bit is set to zero on a MODE SELECT command, the P2P bit is ignored. >> should be << A topology lock (TOPLOCK) bit set to one forces the DTD primary port to operate only in the mode selected by the P2P bit. A TOPLOCK bit set to zero indicates the DTD primary port may negotiate the topology. When the TOPLOCK bit bit is set to zero on a MODE SELECT command, the P2P bit shall be ignored. >>

IBM (Penokie)-354
PDF pg 51, pg 39,
6.2.2.2.2 Fibre Channel descriptor parameters, 3rd paragraph after note 10
E
The statement << The SPEED field indicates the bit rate that the port is configured to operate in. The valid values can be found in table 34. >> should be <<The SPEED field indicates the bit rate (see table 34) that the DTD primary port is configured to operate at. >>

IBM (Penokie)-355
PDF pg 51, pg 39,
6.2.2.2.2 Fibre Channel descriptor parameters, 1st paragraph under table 34
E
The statement << The speed lock (SPDLOCK\

IBM (Penokie)-356
PDF pg 51, pg 39,
6.2.2.2.2 Fibre Channel descriptor parameters, Last paragraph of section
E
The statement << The FC-AL LOOP ID field contains the Loop ID that shall be converted to a FC_PA value per the table in FC-AL-2. >> should be << The FC-AL LOOP ID field contains the loop identifier that shall be used to represent the hard assigned AL_PA (see FC-AL-2). >>

IBM (Penokie)-357
PDF pg 51, pg 39,
6.2.2.2.3 Parallel SCSI descriptor parameters
E
The section title << Parallel SCSI port descriptor parameters>> should be changed to << Parallel SCSI port descriptor format>>

IBM (Penokie)-358
PDF pg 51, pg 39,
6.2.2.2.3 Parallel SCSI descriptor parameters, 1st paragraph
E
The statement << in the Parallel SCSI descriptor parameters. >> should be << in the PORT DESCRIPTOR for parallel SCSI port types. >>.

IBM (Penokie)-359
PDF pg 51, pg 39,
6.2.2.2.3 Parallel SCSI descriptor parameters
E
There needs to be more description in the beginning of this section as to what the mode page descriptor is being used to control. This is especially true as
it is not being used in the normal way, in that, normally this type of mode page descriptor is defined at the protocol and used to control ports on that protocol. This mode page is being used to

IBM (Penokie)-360
PDF pg 51, pg 39,
6.2.2.2.3 Parallel SCSI descriptor parameters, Table 35 title
E
The title should be << Parallel SCSI descriptor format >>

IBM (Penokie)-361
PDF pg 51, pg 39,
6.2.2.2.3 Parallel SCSI descriptor parameters, Table 35 (Global)
E
Replace << BMQ >> with << BUS MODE QUALIFIER >> in all cases. There is not need to create an acronym here.

IBM (Penokie)-362
PDF pg 51, pg 39,
6.2.2.2.3 Parallel SCSI descriptor parameters, 2nd paragraph
E
The statement << The port enable (PE) bit is set to one to enable the port to respond to selections on the SCSI bus. When set to zero, the port shall not respond to or attempt selections or reselections on the SCSI bus and shall not respond to SCSI Bus Reset (see clause 4.2.8). >> should be << A port enable (PE) bit set to one enables the DTD primary port to respond to selections on the SCSI bus (see SPI-5). A PE bit set to zero prevents the DTD primary port from responding to or attempting selections, reselections or a hard resets on the SCSI bus (see 4.2.8). >>

IBM (Penokie)-363
PDF pg 51, pg 39,
6.2.2.2.3 Parallel SCSI descriptor parameters, 3rd paragraph
E
The statement << The BUS MODE field identifies the transmission mode that the target device shall use for this target port. The SCSI Parallel Interface 4 (SPI-4) standard defines values for this field. >> should be << The BUS MODE field identifies the transmission mode that an ADC device server shall use in the TRANSCEIVER MODE field of the Negotiated Settings mode subpage (see SPI-5) for this DTD primary port. >>

IBM (Penokie)-364
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, 4th paragraph
E
The statement << The bus mode qualifier (BMQ) field qualifies the effect that the BUS MODE field has on the target port as listed in table 36. >> should be << The BUS MODE QUALIFER field qualifies the effect (see table 36) that the BUS MODE field has on the DTD primary port . >>

IBM (Penokie)-365
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, Table 36
E
The statement << The target ignores the value of the bus mode qualifier field.>> should be << The ADC device server shall ignore the value of the BUS MODE QUALIFIER field.>>.

IBM (Penokie)-366
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, Table 36
E
The statement << The target operates the target port in the mode specified by the bus mode qualifier field; the target port does not drive the DIFFSENS line with the associated voltage and current characteristics. >> should be << The

ADC device server operates the DTD primary port as specified by the BUS MODE QUALIFIER field. The DTD primary port shall not drive the DIFFSENS line with the associated voltage and current characteristics (see SPI-5). >>. In addition delete the table footnote as it is not needed.

IBM (Penokie)-367
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, Table 36
E
The statement << The target operates the target port in the mode specified by
the bus mode qualifier field; the target port drives the DIFFSENS line with the associated voltage and current characteristics. >> should be << The ADC device server operates the DTD primary port in the mode specified by the BUS MODE QUALIFIER field. The DTD primary port drives the DIFFSENS line with the
associated voltage and current characteristics (see SPI-5). >> . The table footnote should be deleted as it is not needed.

IBM (Penokie)-368
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, 1st paragraph after table 36
E
The statement << The MINIMUM TRANSFER PERIOD FACTOR field identifies the minimum transfer period factor that the target shall use when negotiating transfer agreements for this target port. The SCSI Parallel Interface 4 (SPI-4) standard defines values for this field. Devices that cannot support the identified minimum transfer period factor may enter negotiation using the
next larger supported transfer period factor. >> should be << The MINIMUM TRANSFER PERIOD FACTOR field identifies the minimum transfer period factor that the ADC device server shall use when negotiating transfer agreements (see
SPI-5) for this DTD primary port. ADC device servers that are not able to support the identified minimum transfer period factor may enter negotiation using the next larger supported transfer period factor. >>

IBM (Penokie)-369
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, 2nd paragraph after table 36
E
The statement << field indicates the address that the port shall respond to on
the SCSI bus. >> should be << field indicates the address that the DTD primary
port shall respond to on the SCSI bus. >>

IBM (Penokie)-370
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, Last paragraph
E
The statement << A device receiving a MODE SELECT command for an enabled target port, where the command attempts to >> should be << An ADC device server receiving a MODE SELECT command for an enabled DTD primary port, where
the command attempts to >>

IBM (Penokie)-371
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, Last paragraph
E
The last paragraph starting with << A device receiving a MODE SELECT command >> in this section should be moved to the 1st paragraph under table 35.

IBM (Penokie)-372
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, Last paragraph
E
The statement << If the port is disabled, it shall not be an error to change

the BUS MODE, >> should be << If the DTD primary port is disabled, it may change the BUS MODE, >>

IBM (Penokie)-373
PDF pg 52, pg 40,
6.2.2.2.3 Parallel SCSI descriptor parameters, Last paragraph
E
The statement << and enable the port with the same MODE SELECT command. >> should be << and enable the DTD primary port with the same MODE SELECT command. >>

IBM (Penokie)-374
PDF pg 52, pg 40,
6.2.2.3 Logical Unit descriptor sub-page
E
This title of this section should be << Logical unit subpage >>.

IBM (Penokie)-375
PDF pg 52, pg 40,
6.2.2.3 Logical Unit descriptor sub-page
E
Global: The term << Logical Unit >> should not be capitalized. This needs to be fixed in all cases.

IBM (Penokie)-376
PDF pg 52, pg 40,
6.2.2.3 Logical Unit descriptor sub-page, 1st paragraph
E
The statement << The Logical Unit descriptor sub-page is variable length, >> should be << The Logical Unit subpage is variable length, >>

IBM (Penokie)-377
PDF pg 52, pg 40,
6.2.2.3 Logical Unit descriptor sub-page, 1st paragraph
E
The statement << all Logical Units supported by the device other than W-LUNs shall have descriptors returned. >> should be << all logical units supported by the removable medium device (i.e., ADC logical units, RMC logical units, and SMC logical units), other than W-LUNs shall have descriptors returned. >>

IBM (Penokie)-378
PDF pg 52, pg 40,
6.2.2.3 Logical Unit descriptor sub-page
E
The text and tables between 6.2.2.3 and 6.2.2.3.1 is hanging. This needs to be
fixed.

IBM (Penokie)-379
PDF pg 53, pg 41,
6.2.2.3 Logical Unit descriptor sub-page, Table 37
E
The PAGE LENGTH field needs to have a length indication for example << (n-4) >>.

IBM (Penokie)-380
PDF pg 53, pg 41,
6.2.2.3 Logical Unit descriptor sub-page
E
Global: The names of descriptors should not be in small caps. this needs to be
fixed in all cases.

IBM (Penokie)-381
PDF pg 53, pg 41,
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
The title of this section should be changed from << RMC Logical Unit descriptor parameters >> to << RMC logical unit descriptor format >>

IBM (Penokie)-382
PDF pg 53, pg 41,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 1st paragraph
E
The statement << The descriptor parameters for an RMC logical unit >> should be << The descriptor format for an RMC logical unit >>

IBM (Penokie)-383
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 38
E
The title of this table should be << RMC Logical Unit descriptor format >>.

IBM (Penokie)-384
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 38
E
The <<ADDITIONAL DESCRIPTOR LENGTH (4-n)>> field name should be changed to <<ADDITIONAL LENGTH(3-n) >> as it appears to included the length of the rest of the descriptor and it's 3-n not 4-n.

IBM (Penokie)-385
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 38 (Global)
E
The name of the << MLUD >> field should be changed to << modify logical unit descriptor >> (all small caps of course).

IBM (Penokie)-386
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 38
E
The term << IDENTIFICATION DESCRIPTOR >> should be << Identification descriptor >>.

IBM (Penokie)-387
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 2nd paragraph
E
The statement << units on the device, independent >> should be << units on the ADC device, independent >>

IBM (Penokie)-388
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 2nd paragraph
E
The term << Logical Unit Index >> should not be capitalized.

IBM (Penokie)-389
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 3rd paragraph
E
The statement << The DEVICE TYPE field indicates the type of command set supported by the logical unit. This field contains the same value that would be returned by the logical unit in the Peripheral Device Type field for an INQUIRY command. >> should be << The DEVICE TYPE field indicates the type of device that contains the logical unit. The DEVICE TYPE field contains the same
value that would be returned by the logical unit in the Peripheral Device Type
field for an INQUIRY command (see SPC-3).>>.

IBM (Penokie)-390
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 4th paragraph
E
This entire paragraph could be deleted or changed from << The ADDITIONAL DESCRIPTOR LENGTH field contains a count of additional bytes used by the descriptor including the LOGICAL UNIT NUMBER field. >> to << The ADDITIONAL

LENGTH field contains a count of number bytes used by the descriptor minus four. >>.

IBM (Penokie)-391
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 5th paragraph
E
The statement << The LOGICAL UNIT NUMBER field is the logical unit number of the device server on the DTD primary port(s). >> should be << The LOGICAL UNIT NUMBER field is the logical unit number of the logical unit that contains the device server and associated DTD primary port(s). >>

IBM (Penokie)-392
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 5th paragraph
E
The statement << This field has no affect if the ENABLE field is set to zero.
>> should be << The LOGICAL UNIT NUMBER field shall be ignored if the ENABLE bit is set to zero. >>

IBM (Penokie)-393
PDF pg 54, pg 42,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 5th paragraph
E
The statement << The ADC device server shall return a CHECK CONDITION to a MODE SELECT command when multiple descriptors with the ENABLE field set to one have >> should be << The selected device server shall return a CHECK CONDITION to a MODE SELECT command when multiple descriptors with the ENABLE bit set to one have >>

IBM (Penokie)-394
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 6th paragraph
E
The statement << If the ENABLE bit is set to one it indicates the RMC Logical Unit is reported and supported on the DTD primary port. When it is set to zero, the logical unit is not reported in response to a REPORT LUNS command and it does not respond to commands on the DTD primary port. This field has no effect on the availability of the RMC device server on the ADT port if one is available on the data transfer device. >> should be << An ENABLE bit set to one indicates the DTD primary port associated with the RMC logical unit shall be responsive to SCSI tasks received on that DTD primary port. An ENABLE bit set to zero indicates the DTD primary port associated with the RMC logical unit shall not respond to SCSI tasks received on that DTD primary port and the associated RMC logical unit number shall not be reported in any REPORT LUNS command. The ENABLE bit has no effect on the access to the RMC device server through the ADT port . >>

IBM (Penokie)-395
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 7th paragraph
E
The statement << require the logical unit to be ready. >> should be << require the RMC logical unit to be ready. >>

IBM (Penokie)-396

PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 8th paragraph
E
The statement << The modify logical unit descriptor (MLUD) field is used to modify and report modifications to the logical unit's device identifiers, as defined in table 39. >> should be << The MODIFY LOGICAL UNIT DESCRIPTOR field
(see table 39) modifies and reports modifications to the RMC logical unit's device identifiers. >>.

IBM (Penokie)-397
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The title of this table should be << MODIFY LOGICAL UNIT DESCRIPTOR field >>

IBM (Penokie)-398
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The title of the << MLUD >> column should be << Value >>

IBM (Penokie)-399
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The title of the << MODE SENSE >> column should be << MODE SENSE command >> and there should be a reference to a table foot note. That footnote should state << See SPC-3 >>.

IBM (Penokie)-400
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The title of the << MODE SELECT >> column should be << MODE SELECT command >>
and there should be a reference to a table foot note. That footnote should state << See SPC-3 >>.

IBM (Penokie)-401
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The statement << This field shall be set to zero for a MODE SENSE>> should be
placed in the 8th paragraph and be modified to << The MODIFY LOGICAL UNIT DESCRIPTOR field shall be set to zero for a MODE SENSE command. >> And then give the CC/Key/ASC that would occur it is not set to zero.

IBM (Penokie)-402
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The statement << Do not modify the logical unit's device identifiers. The identification descriptor list shall be ignored. >> should be << Do not modify
the RMC logical unit's device identifiers. The identification descriptors shall be ignored. >>

IBM (Penokie)-403
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
All the << MODE SENSE.>> statements should be << MODE SENSE command >>.

IBM (Penokie)-404
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The statement << Do not modify the logical unit's device identifiers from

the
current values. The identification descriptor list shall be ignored. >>
should
be << Do not modify the RMC logical unit's device identifiers from the
current
values. The identification descriptors shall be ignored. >>

IBM (Penokie)-405
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The statement << Set the logical unit's device identifiers to the
manufacturer's default values. The values in the identification descriptor
list shall be ignored. >> should be << Set the RMC logical unit's device
identifiers to the manufacturer's default values. The identification
descriptors shall be ignored. >>

IBM (Penokie)-406
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, Table 39
E
The statement << Set the logical unit's device identifiers to the values in
the identification descriptor list. >> should be << Set the RMC logical
unit's
device identifiers to the values in the identification descriptors. >>

IBM (Penokie)-407
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 1st paragraph after table
39
E
The statement << The autoload mode override (AMO) field can be used to
override the Autoload Mode settings for the logical unit controlled with the
Control mode page for the logical unit. When set to one, the load process
shall be controlled by the Autoload Mode field in this page, overriding the
settings in the Control mode page. When set to zero, the settings in the
Control mode page shall be used to control the load process. >> should be <<
An autoload mode override (AMO) bit set to one indicates load process shall
be
controlled by the AUTOLOAD MODE field (see table 40), overriding the
settings
in the Control mode page AUTOLOAD MODE SETTINGS field (see SPC-3). An AMO
bit set to zero indicates the settings in the Control mode page AUTOLOAD
MODE
SETTINGS field shall be used to control the load process. >>

IBM (Penokie)-408
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 2nd paragraph after table
39
E
The statement << The AUTOLOAD MODE field specifies the action to be taken
when
a medium is inserted. This field is ignored on the MODE SELECT if the AMO
bit
is set to zero. The field is defined in table 40. >> should be << The
AUTOLOAD
MODE field (see table 40) specifies the action to be taken when a medium is
inserted. If the AMO bit is set to zero this field shall be ignored.>>.

IBM (Penokie)-409
PDF pg 55, pg 43,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 1st paragraph after table
40
E
The term << Hold >> should be in small caps. There are several of these that
need to be fixed.

IBM (Penokie)-410
PDF pg 55, pg 43,

6.2.2.3.1 RMC Logical Unit descriptor parameters, 1st paragraph after table 40
E
The statement << The SCSI unload hold override (SUHO) bit shall be set to one
to override the Hold bit in the SCSI LOAD UNLOAD command as processed by the RMC device server. When set to one, the Hold bit in a SCSI LOAD UNLOAD command
shall be ignored by the RMC device server and the medium shall not be ejected.
When set to zero, the Hold bit in the SCSI LOAD UNLOAD command shall control if the medium is ejected or not, as processed by the RMC device server. This field shall not effect unload requests as processed by the ADC device server.
>> should be << A SCSI unload hold override (SUHO) bit set to one indicates the HOLD bit in a SCSI LOAD UNLOAD command (see SSC-2) shall be ignored by the
RMC device server and the medium shall not be ejected. A SUHO bit set to zero
indicates the HOLD bit in the SCSI LOAD UNLOAD command shall control if the medium is ejected or not, as processed by the RMC device server. The SUHO bit
shall not effect unload requests as processed by the ADC device server. >>

IBM (Penokie)-411
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 2nd paragraph after table 40
E
The statement << The automatic unload hold (AUH) bit shall be set to one to disable ejecting the medium when it is unloaded due to device specific conditions. These conditions can include cleaning complete, invalid medium type, firmware update complete, unsupported format, or other error conditions
detected by the device. This bit does not affect the unload operation initiated via the physical user interface of the data transfer device. >> should be << An automatic unload hold (AUH) bit set to one disables ejecting the medium when it is unloaded due to device specific conditions (e.g., cleaning complete, invalid medium type, firmware update complete, unsupported
format, or other error conditions detected by the device). An AUH bit set to zero shall have no effect on the ejecting of the medium. The AUH bit shall not
affect the unload operation initiated via the physical user interface of the data transfer device. >>.

IBM (Penokie)-412
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 3rd paragraph after table 40
E
The statement << The write protect (WP\

IBM (Penokie)-413
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters
E
Global: The term << device >> is used in many places in this standard, however
the term by itself is not enough. I have been replacing it in may places with
<< RMC device server >> or << ADC device >> but I lack the knowledge of the detail workings of this and may have picked the wrong one. This should be changed in the comment when not correct but the main point is that you have to be specific as to what being talked about in the standard.

IBM (Penokie)-414
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 4th paragraph after table 40

E
The statement << The density override (DENOVR) and SELECT WRITE DENSITY fields
are use to override the Density Code field in the Mode Descriptor Block used by the device. When the DENOVR field is set to one and the SELECT WRITE DENSITY field contains a supported density code, any write operation will select that density. When the DENOVR field is set to zero, the density shall be selected through other means and the SELECT WRITE DENSITY field shall be ignored. The DENOVR field shall be set to zero by the device each time a medium is unloaded. On a MODE SENSE command, the SELECT WRITE DENSITY field shall contain the density code that will be used by the device should a write
operation be started such that the device is capable of selecting a density. >> is just about the worst I have ever seen. I think it should be << A density
override (DENOVR) bit set to one indicates the RMC device server shall use the
contents of the SELECT WRITE DENSITY field as the density code for the RMC logical unit instead of the DENSITY CODE field in the Mode Descriptor Block (See SSC-2). The density code shall indicate the density to be used for any write operation to the RMC device server. If the RMC device server does not support the density code the ADC device server shall return a CHECK CONDITION
to the MODE SELECT command . The sense key shall be set to ILLEGAL REQUEST and
the additional sense code shall be set to INVALID FIELD IN PARAMETER LIST. A DENOVR bit set to zero indicates the RMC device server shall use the DENSITY CODE field in the Mode Descriptor Block and shall ignore the SELECT WRITE DENSITY field. The DENOVR bit shall be set to zero by the RMC device server each time a medium is unloaded. On a MODE SENSE command, the SELECT WRITE DENSITY field shall contain the density code used by the RMC device server should a write operation be started (i.e., the RMC device server is capable of
selecting a density). >>.

IBM (Penokie)-415
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 5th paragraph after table 40
E
The statement << The disaster recovery mode (DRMODE) bit shall be set to one to place the device into Disaster Recovery Mode. When set to zero, the device
shall operate in normal mode. >> should be << A disaster recovery mode (DRMODE) bit set to one places the DTD device into disaster recovery mode. DRMODE set to zero indicates the DTD device shall not operate in disaster recovery mode. >>.

IBM (Penokie)-416
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 6th paragraph after table 40
E
The statement << With the Clean Protect (CP) bit set to one, the DTD shall not perform a cleaning operation upon loading of cleaning media. With the CP bit set to zero, the ADC device server shall not regulate DTD cleaning operations. >> should be << A Clean Protect (CP) bit set to one indicates the
DTD device shall not request the ADC device server perform a cleaning operation upon loading of cleaning media. A CP bit set to zero indicates the DTD device shall not regulate ADC device server's cleaning operations. >>

IBM (Penokie)-417
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 7th paragraph after table 40
E
The statement << With the microcode update protect (MUP) bit set to one, the DTD shall not perform a microcode update process upon loading of media containing a microcode image. With the MUP bit set to zero, the ADC device

server shall not regulate the DTD microcode update process. >> should be <<
A
microcode update protect (MUP) bit set to one indicates the DTD device shall
request the ADC device serve not perform a microcode update process upon
loading of media containing a microcode image. A MUP bit set to zero
indicates
the ADC device server shall not regulate the microcode update process. >>

IBM (Penokie)-418
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 7th paragraph after table
40
E
The statement << The microcode update enable (MUE) bit shall be set to one
to
allow the device to prepare to accept a medium containing a microcode image.
This preparation is vendor specific. This bit shall be set to zero by the
device once the microcode update process is complete or aborted. >> should
be
<< A microcode update enable (MUE) bit set to one allows the DTD device to
request the ADC device server to prepare to accept a medium containing a
microcode image. The preparation description is outside the scope of this
standard. A MUE bit shall be set to zero by the ADC device server after the
microcode update process completes or is aborted. >>

IBM (Penokie)-419
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 8th paragraph after table
40
E
The statement << the device is currently >> should be << the DTD device is
currently >>.

IBM (Penokie)-420
PDF pg 56, pg 44,
6.2.2.3.1 RMC Logical Unit descriptor parameters, 9th paragraph after table
40
E
The statement << The IDENTIFICATION DESCRIPTOR fields are the same as used
in
the Device Identification VPD page as described in SPC-2. >> should be <<
The
IDENTIFICATION DESCRIPTOR fields are the same as those in the Device
Identification VPD page (see SPC-3). >>

IBM (Penokie)-421
PDF pg 56, pg 44,
6.2.2.3.2 SMC Logical Unit descriptor parameters
E
The title of this section should be changed from << SMC Logical Unit
descriptor parameters >> to << SMC logical unit descriptor format >>

IBM (Penokie)-422
PDF pg 56, pg 44,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 1st paragraph
E
The statement << The descriptor parameters for an SMC logical unit (Device
Type = 08h) >> should be << The descriptor format for an SMC logical unit
(i.e., Device Type = 08h)>>

IBM (Penokie)-423
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, Table 41
E
The title of this table should be << SMC Logical Unit descriptor format >>.

IBM (Penokie)-424
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, Table 41
E

The << ADDITIONAL DESCRIPTOR LENGTH (n-4) >> should be renamed to << ADDITIONAL LENGTH (4) >> as this is a fixed length.

IBM (Penokie)-425
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 2nd paragraph
E
The statement << The LOGICAL UNIT INDEX, DEVICE TYPE, ADDITIONAL DESCRIPTOR LENGTH, and LOGICAL UNIT NUMBER fields are as described in 6.2.2.3.1. >> should be << The LOGICAL UNIT INDEX, DEVICE TYPE, and LOGICAL UNIT NUMBER fields are as described in 6.2.2.3.1. >>. The ADDITIONAL DESCRIPTOR LENGTH does not need to be in the list as it is a fixed value.

IBM (Penokie)-426
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 3rd paragraph
E
The statement << If the ENABLE field is set to one, it indicates that the SMC Logical Unit is reported and supported on the DTD primary port. Commands received for this logical unit shall either be processed by the local SMC device server or passed by the bridging manager to the remote SMC device server. When it is set to zero, the logical unit is not reported in response to a REPORT LUNS command and it does not respond to commands on the DTD primary port. >> should be << An ENABLE bit set to one indicates the DTD primary port associated with the SMC logical unit shall be responsive to SCSI tasks received on that DTD primary port. An ENABLE bit set to zero indicates the DTD primary port associated with the SMC logical unit shall not respond to SCSI tasks received on that DTD primary port and the associated RMC logical unit number shall not be reported in any REPORT LUNS command. The ENABLE bit has no effect on the access to the SMC device server through the ADT port . >>.

IBM (Penokie)-427
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 4th paragraph
E
The statement << If the ENABLE field is changed from >> should be << If the ENABLE bit is changed from >>

IBM (Penokie)-428
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 4th paragraph
E
The statement << remaining device servers in the data transfer device shall report a change in the logical unit inventory, as specified in SPC-2, to any >> should be << remaining device servers in the DTD device shall report a change in the logical unit inventory (see SPC-3) to any >> .

IBM (Penokie)-429
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 5th paragraph
E
The statement << If the device server receives a MODE SELECT command via a DTD primary port, >> should be << If the SMC device server receives a MODE SELECT command through a DTD primary port, >>

IBM (Penokie)-430
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 6th paragraph
E
The statement << If the CACHE field is set to one, the local SMC device server shall implement caching of SMC data and status (see 4.2.2.1.4). Enabling of

caching requires enabling of bridging; if the ADC device server receives a MODE SELECT command for which the parameter data would set the ENABLE field to
zero and the CACHE field to one, >> should be << A CACHE bit set to one and the ENABLE bit set to one indicates the local SMC device server shall enable caching of SMC data and status (see 4.2.2.1.4). If the ADC device server receives a MODE SELECT command for which the parameter data would set the ENABLE bit to zero and the CACHE bit to one, >>.

IBM (Penokie)-431
PDF pg 57, pg 45,
6.2.2.3.2 SMC Logical Unit descriptor parameters, 7th paragraph
E
The statement << If the CACHE field is set to zero, the local SMC device server shall not implement caching of SMC data and status. >> should be << A CACHE bit set to zero indicates the local SMC device server shall not cache of SMC data and status. >>

IBM (Penokie)-432
PDF pg 57, pg 45,
6.2.2.3.3 ADC Logical Unit descriptor parameters
E
The title of this section should be changed from << ADC Logical Unit descriptor parameters >> to << << ADC logical unit descriptor format >>

IBM (Penokie)-433
PDF pg 57, pg 45,
6.2.2.3.3 ADC Logical Unit descriptor parameters, 1st paragraph
E
The statement << The descriptor parameters for an ADC logical unit (Device Type = 12h) >> should be << The descriptor format for an ADC logical unit (i.e., Device Type = 12h) >>

IBM (Penokie)-434
PDF pg 58, pg 46,
6.2.2.3.3 ADC Logical Unit descriptor parameters, Table 42
E
The title of this table should be << ADC Logical Unit descriptor format >>.

IBM (Penokie)-435
PDF pg 58, pg 46,
6.2.2.3.3 ADC Logical Unit descriptor parameters, Table 42
E
The << ADDITIONAL DESCRIPTOR LENGTH (n-4) >> should be renamed to << ADDITIONAL LENGTH (4) >> as this is a fixed length.

IBM (Penokie)-436
PDF pg 58, pg 46,
6.2.2.3.3 ADC Logical Unit descriptor parameters, 2nd paragraph
E
The statement << The LOGICAL UNIT INDEX, DEVICE TYPE, ADDITIONAL DESCRIPTOR LENGTH, and LOGICAL UNIT NUMBER fields are as described in 6.2.2.3.1. >> should be << The LOGICAL UNIT INDEX, DEVICE TYPE, and LOGICAL UNIT NUMBER fields are as described in 6.2.2.3.1. >>. The ADDITIONAL DESCRIPTOR LENGTH does not need to be in the list as it is a fixed value.

IBM (Penokie)-437
PDF pg 58, pg 46,
6.2.2.3.3 ADC Logical Unit descriptor parameters, 3rd paragraph
E
The statement << If the ENABLE bit is set to one it indicates the ADC Logical
Unit is reported and supported on the DTD primary port. Commands received for
this logical unit shall be passed on to the ADC device server. When it is set
to zero, the logical unit is not reported in response to a REPORT LUNS command
and it does not respond to commands on the DTD primary port. This field has no

effect on the availability of the ADC device server on the ADT port if one
is
available on the data transfer device. >> should be << << An ENABLE bit set
to
one indicates the DTD primary port associated with the ADC logical unit
shall
be responsive to SCSI tasks received on that DTD primary port. An ENABLE
bit
set to zero indicates the DTD primary port associated with the ADC logical
unit shall not respond to SCSI tasks received on that DTD primary port and
the
associated ADC logical unit number shall not be reported in any REPORT LUNS
command. The ENABLE bit has no effect on the access to the ADC device server
through the ADT port . >>

IBM (Penokie)-438
PDF pg 58, pg 46,
6.3.1 Vital product data parameters overview
E
The statement << Device Identification page 83h (as defined in SPC-2\

IBM (Penokie)-439
PDF pg 59, pg 47,
A.1 Introduction, 1st paragraph
E
The statement << devices automatically, i.e., without manual configuration
of
the DTD before it is placed in the automation device. >> should be <<
devices
automatically (i.e., without manual configuration of the DTD before it is
placed in the automation device). >>

IBM (Penokie)-440
PDF pg 59, pg 47,
A.1 Introduction, 1st paragraph
E
The statement << Because DTD configuration information is presented and
modified in a standard manner, automation application clients can implement
one discovery and configuration process that will accommodate all compliant
DTDs without need for DTD-specific changes. >> should be << Because DTD
configuration information is presented and modified in a standard manner,
automation application clients may implement one discovery and configuration
process that accommodates all compliant DTDs without need for DTD-specific
changes. >>

IBM (Penokie)-441
PDF pg 59, pg 47,
A.1 Introduction
E
The bulleted list in this section needs to be change to an a.b.c list the
follows the conventions set in this standards.

a) text;
b) text; and
c) text.

Note there is no space between item in list, each list ends with a semi
colon,
and the 2nd to last item in list has an and or an or.

IBM (Penokie)-442
PDF pg 59, pg 47,
A.1 Introduction
E
Global - The term << must >> shall be deleted from this standard in all
cases.
In an informative annex shall are not allowed so the musts need to be
restored
to eliminate them or the requirements moved to a nominate part of the
standard.

IBM (Penokie)-443
PDF pg 59, pg 47,
A.1 Introduction
E
Global - All cases of the term << will >> need to be removed from this standard.

IBM (Penokie)-444
PDF pg 59, pg 47,
A.1 Introduction, 1st paragraph after list
E
The statement << Configuration of all data transfer devices must be performed when the automation device performs a hard reset. Also, when a data transfer device performs a hard reset it must be configured. At that time, the automation application client will typically discover the DTD and if necessary modify its configuration prior to enabling its primary port(s). >> should be << Configuration of all data transfer devices is performed when the automation device performs a hard reset. Also, when a data transfer device performs a hard reset it is configured. At that time, the automation application client typically discovers the DTD and if necessary modifies its configuration prior to enabling its primary port(s). >>

IBM (Penokie)-445
PDF pg 59, pg 47,
A.1 Introduction
E
Global - All cases of the term << can >> need to be removed from this standard.

IBM (Penokie)-446
PDF pg 59, pg 47,
A.1 Introduction, 2nd paragraph after list
E
The statement << While different DTDs may save different sets of parameters across power cycles and resets, the port enable (PE) field in the DTD primary port descriptors is the one that is required for the operation described above. When this bit is set to zero in the saved mode parameters, a power cycle or hard reset will leave the DTD primary ports disabled. The automation application client can then set the entire configuration and enable the DTD primary ports by setting the current mode parameters, which can be done with a single MODE SELECT command. In fact, if the DTD configuration is known to be acceptable, then this single command will be the only one necessary. >> should be << While different DTDs may save different sets of parameters across power cycles and resets, the PE bit (see 6.2.2.2.2 and 6.2.2.2.3) is the bit that is required for the operation described in this subclause. When the PE bit is set to zero in the saved mode parameters, a power cycle or hard reset leaves the DTD primary ports disabled. The automation application client may then set the entire configuration and enable the DTD primary ports by setting the current mode parameters, which may be done with a single MODE SELECT command. If the DTD configuration is known to be acceptable, then only this single MODE SELECT command is necessary. >>

IBM (Penokie)-447
PDF pg 59, pg 47,

A.1 Introduction, 3rd paragraph after list
E
The statement << If the DTD detects that it is not connected to an automation
device (by means beyond the scope of this standard), it may override a PE bit
of zero and enable the port upon power on or hard reset. This will allow the
DTD primary ports to operate when the DTD is in a standalone mode. >> should
be << If the DTD device detects that it is not connected to an automation
device it may override a PE bit that is set to zero and enable the DTD primary
port upon power on or hard reset. This allows the DTD primary ports to
operate when the DTD device is in a standalone mode. The method for detecting
if the DTD device is not connected is outside the scope of this standard.>>

IBM (Penokie)-448
PDF pg 59, pg 47,
A.2 Command Sequence
E
Global - The references to tables are not capitalized unless it is the first
word of a sentence. This needs to be fixed.

IBM (Penokie)-449
PDF pg 59, pg 47,
A.2 Command Sequence, 1st paragraph
E
The term << data transfer device >> should be << DTD device >>.

IBM (Penokie)-450
PDF pg 60, pg 48,
A.2 Command Sequence, 2nd paragraph
E
The statement << only necessary command will be the final MODE SELECT (10).
>>
should be << only necessary command is the final MODE SELECT (10). >>

IBM (Penokie)-451
PDF pg 60, pg 48,
A.2 Command Sequence, 2nd paragraph
E
The statement << they are mandatory and will be available on all DTDs. The
six-byte forms are optional and thus may not be supported. >> should be <<
they are mandatory and are therefore available on all DTDs. The six-byte
forms
are optional and therefore may not be supported. >>.

IBM (Penokie)-452
PDF pg 60, pg 48,
A.3 Configuration process steps, 1st paragraph
E
The statement << device server, it can then begin to determine the
characteristics of the DTD. >> should be << device server, it may then begin
to determine the characteristics of the DTD. >>

IBM (Penokie)-453
PDF pg 60, pg 48,
A.3 Configuration process steps, 1st paragraph
E
The statement << Automation firmware need make no assumptions about the type
of media handled by the drive, the number and types of primary ports,
identifiers reported by it, etc. >> should be << Automation firmware is not
required to make assumptions (e.g., about the type of media handled by the
DTD
device, the number and types of DTD primary ports, or the identifiers). >>

IBM (Penokie)-454
PDF pg 60, pg 48,
A.3 Configuration process steps
E

The text between A.3 and A.3.1 is hanging. This needs to be fixed.

IBM (Penokie)-455
PDF pg 60, pg 48,
A.3 Configuration process steps, 2nd paragraph
E
The statement << command in the table above. >> should be << command in table
A.1. >>

IBM (Penokie)-456
PDF pg 60, pg 48,
A.3.2 Obtaining saveable mode parameters
E
The statement << The data received must then be parsed to determine which parameters are supported. If none of these parameters need to be changed or if
no parameters can be saved, then the automation application client can skip to
clause A.3.4 below. >> should be << The data received is then parsed to determine which parameters are supported. If none of these parameters need to
be changed or if no parameters are saveable, then the automation application client starts obtaining the current mode parameters (see A.3.4).>>

IBM (Penokie)-457
PDF pg 61, pg 49,
A.3.3 Saving mode parameters
E
The statement << If these bits are set to zero and saved, then after subsequent hard resets the DTD primary port(s) will be disabled. this will permit the automation application client to configure the DTD before it can be
accessed through its primary ports. >> should be << If these bits are set to
zero and saved, then after subsequent hard resets the DTD primary port(s) are
disabled. this permits the automation application client to configure the DTD
device before it is accessed through its DTD primary ports. >>

IBM (Penokie)-458
PDF pg 61, pg 49,
A.3.4 Obtaining current mode parameters
E
The statement << The automation application client can now set the DTD parameters to the values desired during normal operation. >> should be << The
automation application client now sets the DTD parameters to the values
desired during normal operation. >>

IBM (Penokie)-459
PDF pg 61, pg 49,
A.3.4 Obtaining current mode parameters
E
The statement << The data received must then be parsed to determine which parameters are supported. >> should be << The data received is then parsed to
determine which parameters are supported. >>

IBM (Penokie)-460
PDF pg 61, pg 49,
A.3.5 Setting operational parameter values, 1st paragraph
E
The statement << The second MODE SELECT (10) command will typically set all of
the operational parameter values and enable the DTD's primary ports. It is
done with the save pages (SP) field set to zero. >> should be << The second MODE SELECT (10) command typically sets all of the operational parameter values and enables the DTD's primary ports. This is done with the save pages

(SP) field set to zero. >>

IBM (Penokie)-461
PDF pg 61, pg 49,
A.3.5 Setting operational parameter values, 2nd paragraph
E
The statement << If the automation application client sets the OFFLINE field of the RMC logical unit descriptor to one in order to leave the device offline after the DTD primary ports are enabled, then an additional MODE SELECT (10) will be necessary to bring the device online. >> should be << If the automation application client sets the OFFLINE bit (see 6.2.2.3.1) to one in order to leave the device offline after the DTD primary ports are enabled, then an additional MODE SELECT (10) is necessary to bring the DTD device online. >>

IBM (Penokie)-462
PDF pg 61, pg 49,
A.4 Sample mode parameters
E
The statement << This clause presents a example of configuring the operational (changeable) parameters of a data transfer device. The DTD contains an SSC (tape) device server and two Fibre Channel ports. The values shown here are those set in clause A.3.5 above. >> should be << This subclause presents a example of configuring the operational (i.e., changeable) parameters of a DTD device. The DTD device contains a tape device that conforms to the SSC-2 standard and two Fibre Channel ports. The values shown here are those set by the procedure described in A.3.5. >>

IBM (Penokie)-463
PDF pg 61, pg 49,
A.4 Sample mode parameters
E
The text between A.4 and A.4.1 is hanging. This needs to be fixed.

IBM (Penokie)-464
PDF pg 61, pg 49,
A.4.1 Mode parameter header and block descriptor
E
The table in this section has no table title. This needs to be fixed and then a reference to the table needs to be added.

IBM (Penokie)-465
PDF pg 61, pg 49,
A.4.2 Node descriptor subpage
E
The statement << Because the automation application client wishes to change the world wide node name, it sets the WORLD WIDE NODE NAME field to the new value (20000123000000000h) and the MNN field to 11b. >> should be << << Because the automation application client requires a different node name identifier, it sets the NAME IDENTIFIER field to the new value (20000123000000000h) and the MNN field to 11b. >>

IBM (Penokie)-466
PDF pg 62, pg 50,
A.4.2 Node descriptor subpage
E
The table in this section has no table title. This needs to be fixed and then a reference to the table needs to be added.

IBM (Penokie)-467
PDF pg 62, pg 50,
A.4.2 Node descriptor subpage

E
The field name << WORLD WIDE NODE NAME >> should be changed to << NAME
IDENTIFER >>

IBM (Penokie)-468
PDF pg 62, pg 50,
A.4.3 DTD primary port descriptor subpage
E
The statement << This example DTD has two Fibre >> should be << In this
example the DTD device has two Fibre >>.

IBM (Penokie)-469
PDF pg 62, pg 50,
A.4.3 DTD primary port descriptor subpage
E
The text and table between A.4.3and A.4.3.1 is hanging. This needs to be
fixed.

IBM (Penokie)-470
PDF pg 62, pg 50,
A.4.3 DTD primary port descriptor subpage
E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-471
PDF pg 62, pg 50,
A.4.3.1 Port A port descriptor, 1st paragraph
E
The statement << application client may wish to change a number of >> should
be << application client may change a number of >>

IBM (Penokie)-472
PDF pg 62, pg 50,
A.4.3.1 Port A port descriptor
E
The bulleted list in this section needs to be change to an a.b.c list the
follows the conventions set in this standards.

a) text;
b) text; and
c) text.

Note there is no space between item in list, each list ends with a semi
colon,
and the 2nd to last item in list has an and or an or.

IBM (Penokie)-473
PDF pg 63, pg 51,
A.4.3.1 Port A port descriptor
E
The field name << ADDITIONAL DESCRIPTOR LENGTH >> should be << ADDITIONAL
LENGTH >>

IBM (Penokie)-474
PDF pg 63, pg 51,
A.4.3.1 Port A port descriptor
E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-475
PDF pg 63, pg 51,
A.4.3.1 Port A port descriptor
E
The needs to be a row number after 35.

IBM (Penokie)-476

PDF pg 63, pg 51,
A.4.3.2 Port B port descriptor
E
The field name << ADDITIONAL DESCRIPTOR LENGTH >> should be << ADDITIONAL
LENGTH >>

IBM (Penokie)-477
PDF pg 63, pg 51,
A.4.3.2 Port B port descriptor
E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-478
PDF pg 63, pg 51,
A.4.3.2 Port B port descriptor
E
There needs to be a row number after 51.

IBM (Penokie)-479
PDF pg 63, pg 51,
A.4.4 Logical unit descriptor subpage
E
The statement << The logical unit descriptor subpage will contain at least
one
logical unit descriptor. >> should be << The logical unit descriptor subpage

contains at least one logical unit descriptor. >>

IBM (Penokie)-480
PDF pg 63, pg 51,
A.4.4 Logical unit descriptor subpage
E
The text and table between A.4.4 and A.4.4.1 is hanging. This needs to be
fixed.

IBM (Penokie)-481
PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor, 1st paragraph
E
The statement << If the automation application client the RMC device
server
to appear on its primary interface ports, it must set the LOGICAL UNIT
NUMBER
field to the desired value and set the ENABLE field to one. Otherwise, it
must
set the ENABLE field to zero. Typically, the LUN will be OOOOh and ENABLE
will
be 1. During normal operation, the OFFLINE bit will be O. >> should be <<
If
the automation application client requires the RMC device server to appear
on
its DTD primary ports, it sets the LOGICAL UNIT NUMBER field to a specific
value and sets the ENABLE bit to one. Otherwise, it the ENABLE bit is set
to
zero. Typically, the LUN is OOOOh and ENABLE bit is set to one. During
normal
operation, the OFFLINE bit is set to zero. >>

IBM (Penokie)-482
PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor, 2nd paragraph
E
The statement << This example is for a Stream (tape) device, so the DEVICE
>>
should be << This example is for a stream device (i.e., tape device), so the
DEVICE >>

IBM (Penokie)-483

PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor
E
The text and table between A.4.4.1 and A.4.4.1.2 is hanging. This needs to
be
fixed.

IBM (Penokie)-484
PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor, 2nd item in list
E
The statement << modify logical unit descriptor (MLUD) field >> should be <<
MODIFY LOGICAL UNIT DESCRIPTOR field >>.

IBM (Penokie)-485
PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor, 3nd item in list
E
The statement << The drive will be online when the DTD primary ports are >>
should be << The drive will be online when the DTD primary ports are >>

IBM (Penokie)-486
PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor
E
The bulleted list in this section needs to be change to an a.b.c list the
follows the conventions set in this standards.

a) text;
b) text; and
c) text.

Note there is no space between item in list, each list ends with a semi
colon,
and the 2nd to last item in list has an and or

IBM (Penokie)-487
PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor
E
The field name << ADDITIONAL DESCRIPTOR LENGTH >> should be << ADDITIONAL
LENGTH >>

IBM (Penokie)-488
PDF pg 64, pg 52,
A.4.4.1 RMC logical unit descriptor
E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-489
PDF pg 64, pg 52,
A.4.4.1.2 T10 vendor identifier descriptor, 1st paragraph
E
The statement << descriptors, a T10 vendor identifier and a NAA identifier.
>>
should be << descriptors, a T10 vendor identifier and a NAA identifier (see
SPC-3). >>

IBM (Penokie)-490
PDF pg 64, pg 52,
A.4.4.1.2 T10 vendor identifier descriptor, 2nd paragraph
E
The statement << bit are both zero. >> should be << bit are both set to zero.
>>

IBM (Penokie)-491
PDF pg 65, pg 53,
A.4.4.1.2 T10 vendor identifier descriptor

E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-492
PDF pg 65, pg 53,
A.4.4.1.3 IEEE extended identifier descriptor, 1st paragraph
E
The statement << value is zero. >> should be << value is set to zero. >>

IBM (Penokie)-493
PDF pg 65, pg 53,
A.4.4.1.3 IEEE extended identifier descriptor
E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-494
PDF pg 65, pg 53,
A.4.4.1.3 IEEE extended identifier descriptor, 3rd paragraph
E
The statement << the ADC device server must parse the data provided by the
MODE SELECT >> should be << the ADC device server parses the data provided
by
the MODE SELECT >>

IBM (Penokie)-495
PDF pg 65, pg 53,
A.4.4.2 SMC logical unit descriptor, 1st paragraph
E
The statement << This DTD supports ADI bridging (see clause 4.2.2.1), so the
mode data includes a Medium Changer logical unit descriptor with a logical
unit index of one. Because the automation application client wishes to
enable
bridging, it sets the LOGICAL UNIT NUMBER field to one and the ENABLE field
to
one. >> should be << This DTD supports ADI bridging (see 4.2.2.1), so the
mode
data includes a Medium Changer logical unit descriptor with the LOGICAL UNIT
INDEX field set to O1h. Because the automation application client is going
to
enable bridging, it sets the LOGICAL UNIT NUMBER field to OOO1h and the
ENABLE
bit to one. >>

IBM (Penokie)-496
PDF pg 65, pg 53,
A.4.4.2 SMC logical unit descriptor, 2nd paragraph
E
The statement << If multiple logical units are enabled for reporting on the
primary ports, then the ADC device server must ensure that their logical
unit
numbers are different. If the LUN field in the RMC descriptor is the same as
that for another logical unit and both of their ENABLE bits are one, then
the
ADC device server will report an invalid field in the parameter data, with
sense data indicating the LUN field in a descriptor other than that for the
RMC logical unit. >> should be << If multiple logical units are enabled for
reporting on the DTD primary ports, then the ADC device server ensures that
their logical unit numbers are different. If the LUN field in the RMC
descriptor is the same as that for another logical unit and both of their
ENABLE bits are set to one, then the ADC device server reports an invalid
field in the parameter data, with sense data indicating the LUN field in a
descriptor other than that for the RMC logical unit. >>

IBM (Penokie)-497
PDF pg 66, pg 54,
A.4.4.2 SMC logical unit descriptor

E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-498
PDF pg 66, pg 54,
A.4.4.2 SMC logical unit descriptor
E
The field name << ADDITIONAL DESCRIPTOR LENGTH >> should be << ADDITIONAL
LENGTH >>

IBM (Penokie)-499
PDF pg 66, pg 54,
A.4.4.3 ADC logical unit descriptor
E
The statement << Because the automation application client does not wish the
ADC device server to appear on the DTD primary ports, it sets the ENABLE
field
to zero. >> should be << Because the automation application client does not
require that the ADC device server appear on the DTD primary ports, it sets
the ENABLE bit to zero. >>

IBM (Penokie)-500
PDF pg 66, pg 54,
A.4.4.3 ADC logical unit descriptor
E
The table in this section has no table title. This needs to be fixed and
then
a reference to the table needs to be added.

IBM (Penokie)-501
PDF pg 66, pg 54,
A.4.4.3 ADC logical unit descriptor
E
The field name << ADDITIONAL DESCRIPTOR LENGTH >> should be << ADDITIONAL
LENGTH >>

IBM (Pierce)-001
PDF pg 34, pg 22,
Table 6
E
The second Mode Select(6) should be Mode Sense(6).

IBM (Nishida)-001
PDF pg 34, pg 22
Table 6
E
2) These commands are subject ... -> 2) This command is subject ...

IBM (Nishida)-002
PDF pg 35, pg 23
5.2 NOTIFY DATA TRANSFER DEVICE command
E
I cannot find the description of byte 15, "CONTROL" field in table 7.

IBM (Nishida)-003
PDF pg 38, pg 26
6.1.2.1 Very High Frequency Data log parameter
E
... unload states e - h (see table 1) due to the ... -> ... unload states e
-
h (see table 3) due to the ...

IBM (Nishida)-004
PDF pg 38, pg 26
Table 12
E
Why does this table start with Byte 8? If it wants to map to table 11. It
must

be 4 through 7.

IBM (Nishida)-005
PDF pg 49, pg 37
Table 29
E
PAGE LENGTH -> PAGE LENGTH (n-3)

IBM (Nishida)-006
PDF pg 49, pg 37
Table 30
E
ADDITIONAL DESCRIPTOR LENGTH -> ADDITIONAL DESCRIPTOR LENGTH (n-3)

IBM (Nishida)-007
PDF pg 53, pg 41
Table 37
E
PAGE LENGTH -> PAGE LENGTH (n-3)

IBM (Nishida)-008
PDF pg 54, pg 42
Table 38
E
Is it correct? ADDITIONAL DESCRIPTOR LENGTH (n-4) -> ADDITIONAL DESCRIPTOR
LENGTH (n-3)

IBM (Nishida)-009
PDF pg 57, pg 45
Table 41
E
ADDITIONAL DESCRIPTOR LENGTH (n-4) -> ADDITIONAL DESCRIPTOR LENGTH (4)

IBM (Nishida)-010
PDF pg 58, pg 46
Table 42
E
ADDITIONAL DESCRIPTOR LENGTH (n-4) -> ADDITIONAL DESCRIPTOR LENGTH (4)

IBM (Nishida)-011
PDF pg 61, pg 49
A.4.1 Mode parameter header and block descriptor
E
MODE DATA LENGTH (0000h) I think it should not be 0000h.

IBM (Roberts)-001
PDF pg 34, pg 22
5.1 Table 6 Command Set for automation drive interface
E
The second occurance of "MODE SELECT(6)" should be "MODE SENSE(6)"

IBM (Roberts)-002
PDF pg 34, pg 22
5.1 Table 6 Command Set for automation drive interface
T
Consider adding a command to allow the library to send a cartridge bar code
label volser to the drive. This would allow the library to send the volser
to
the drive for use in drive error log entries, making it easier for service
personnel to determine which cartridge was involved with a drive-reported
error. This can be accomplished with a Write Buffer command, but having a
standardized method of accomplishing this task would be helpful. Perhaps
defining a standardized write buffer id for this purpose would be
appropriate.

IBM (Roberts)-003
PDF pg 34, pg 22
5.1 Table 6 Command Set for automation drive interface
T
Consider adding a command to allow the library to send a time stamp (number

of
seconds since some date) to the drive. This would allow the library to
update
a real-time clock in the drive. This real-time clock would then allow the
drive to provide meaningful date/time info in error log entries. This can
be
accomplished with a Write Buffer command, but having a standardized method
of
accomplishing this task would be helpful. Perhaps defining a standardized
write buffer id for this purpose would be appropriate.

IBM (Roberts)-004
PDF pg 44, pg 32
6.1.4 Requested Recovery Log Page
T
Need more description of Recovery Action 01h. Does this mean no recovery is
needed? Or no recovery is possible? Also suggest that Recovery Actions 01h,
05h, 08h, and 09h may be good candidates for collecting a drive dump to
assist
support personnel in determining the root cause of the problem.

IBM (Roberts)-005
PDF pg 46, pg 34
6.1.5 Device Statistics Log Page - Table 22
T
Should consider adding more statistics. Things like the following: , Write
Permanent Errors , Write Temporary Errors , Read Permanent Errors , Read
Temporary Errors , Load Permanent Errors , Load Temporary Errors , Unload
Permanent Errors , Unload Temporary Errors , Host Interface Permanent Errors
(uncorrectable parity errors) , Host Interface Recovered Errors (corrected
parity errors) , Also consider adding similar statistics related to the
currently mounted cartridge. , This info could all be in vendor unique, but
why not standardize the commonly requested items.

IBM (Butt)-001
PDF pg 44, pg 32
6.1.4 Requested Recovery log page
T
Add a method to indicate that a retrieval of a drive error log (dump) is
requested prior to performing the requested recoveries.

IBM (Butt)-002
New Function
Drive Error Log
T
Add a method to force and retrieve a drive error log (dump)

****

Comments attached to Yes ballot from Emily Hill of
Microsoft Corp.:

Things needing clarifications:

1. In Section 4.2.1 (fourth bullet) it says: "The automation controller
needs to perform the task of causing the data transfer device to unload
or load media, even if its RMC device server is reserved by an
application client" - what happens if a backup is taking place?
Basically, what are the conditions under which this is allowed to =
happen
(my guess is transient errors).

2. In section 4.2.2: It is unclear to me how reservations work here.
The spec says "ADC device server does not support reservations. The ADC
device server avoids reservation conflicts with other device servers
since reservations held against one device server do not affect other
device servers. This approach allows the automation application client
to interact with the DTD via the ADC device server without a conflict

due to reservations on other device servers." What I don't understand
is that if the RMC device server has a reservation on a DTD port, what
happens when the automation application client tries to reserve the =
same
DTD port via the ADC device server? It almost appears from this
statement that both the reservations will work. Is that acceptable?

3. In Section 4.2.2 the spec says: "The ADC mode pages can override
behavior of the RMC device server for operations, eg. the loading and
unloading of media" - how does this work if a backup is already in
progress, or if one is just been initiated?=20

4. In section 4.2.2.1.2: "The local SMC device server shall not support
element reservations in the RESERVE(6), RELEASE(6), RESERVE(10), and
RELEASE(10) commands. It shall not support the ELEMENT_SCOPE in the
PERSISTENT RESERVE IN and PERSISTENT RESERVE OUT commands." - what's
being reserved then?

5. In section 4.2.5 :Why is sense data masking an optional feature?
Wouldn't not forcing its implementation cause some unnecessary failures
to backups?

6. In section 4.2.8: What is the need to log out all logged-in ports if
an enabled DTD primary port is disabled? How are the ports related to
the primary port?

7. In section 4.2.10: In sequential mode operation, the automation
device moves the next medium from a storage element to the DTD when the
current one is full - isn't this dangerous? What if the media contains
useful data? Is this sequential mode really a necessary feature? It
isn't like the time saved will be noticeable considering that we're
dealing with slow I/O devices.

=20

8. [in General] How does the automation application client communicate
with the automation device? Is there a standard interface or is just
using CDBs?

****

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

Quantum 1 General. It would helpful to implementers if when fields are
defined in paragraph format, the first phrase in the first sentence of the
paragraph contain the name of the field to be defined.
Quantum 2 PDF 5 last sentence of last paragraph. Automation drive
interface physical and transport documents. Replace text with "the
Automation
Drive Interface - Transport Protocol standard".
Quantum 3 PDF 14 2nd paragraph. Extraneous "Physical Interconnects:".
Quantum 4 PDF 14 Under Interconnects. Remove ADP line.
Quantum 5 PDF 14 whole page This list does not match SPC-3 Update list
to
SPC-3 level.
Quantum 6 PDF 16 2.3, list. FCP-2 is released, Move FCP-2 to section 2.2.
Quantum 7 PDF 17 3.1. No definition for ADT, Add definition.
Quantum 8 PDF 17 3.1.2. Missing period.
Quantum 9 PDF 17 3.1.6. Add reference to 4.2.2.
Quantum 10 PDF 17 3.1.11. The term "indication" is not used anywhere in
this standard. Remove this defintion.
Quantum 11 PDF 17 3.1.17. Add reference to 4.2.2.
Quantum 12 PDF 18 3.1.25. The term "primary" is only used in reference to
a
port. We could probably use a defintion for "primary port".
Quantum 13 PDF 18 3.1.27. Add reference to 4.2.2.
Quantum 14 PDF 18 3.1.28. Add reference to 4.2.2.

Quantum 15 PDF 19 SMC-2. SCSI Medium Changer Commands-2 should be SCSI Media Changer Commands-2.
Quantum 16 PDF 21 Paragraph beginning "Decimal numbers". Needs a space before the second sentence.
Quantum 17 PDF 22 4.1, 1st paragraph. I don't understand what this paragraph is trying to say, but I also don't see anything in this paragraph the we couldn't live without. Maybe we should lose it.
Quantum 18 PDF 22 4.1, 2nd paragraph. This paragraph was covered in the forward and does not really need to be repeated. Remove the paragraph.
Quantum 19 PDF 22 4.2.1, 1st paragraph, 2nd sentence. Replace "will" with "should".
Quantum 20 PDF 22 4.2.1, 1st paragraph, 3rd sentence. Replace "are received" with "may be transported".
Quantum 21 PDF 22 4.2.1, 1st paragraph, 3rd sentence. Place e.g. clause in
parenthesis.
Quantum 22 PDF 22 4.2.1, 1st paragraph, 4th sentence. Replace "will typically receive" with "typically receives".
Quantum 23 PDF 22 4.2.1, 2nd paragraph, 1st sentence. Replace "will typically contain" with "typically contains".
Quantum 24 PDF 22 4.2.1, 2nd paragraph, 2nd sentence. Remove the phrase "...and in the process of performing a write or read operation,".
Quantum 25 PDF 22 4.2.1, 2nd paragraph, 2nd sentence. Replace "needs to" with "may".
Quantum 26 PDF 22 4.2.1, 1st bullet. Replace "such as SCSI Port" with "(e.g. SCSI Port)".
Quantum 27 PDF 22 4.2.1, 2nd bullet. Place e.g. clause in parenthesis.
Quantum 28 PDF 22 4.2.1, bullet list. Change bullet list to use letter list.
Quantum 29 PDF 22 4.2.1, 1st paragraph after list, 2nd sentence. Remove quotes from "automation application client".
Quantum 30 PDF 22 4.2.1, 1st paragraph after list, 3rd sentence. Change "the SMC device server" to "device servers within the automation device". Remove the phrase "performed by means".
Quantum 31 PDF 23 Paragraph after figure 2. This paragrpah introduces the figure yet follows it. Move in front of the figure.
Quantum 32 PDF 23 Paragraph after figure 2. Wording is unclear. Suggested wording "Figure 2 shows an example of a hardware view of the relationship between the automation device and the data transfer devices using ADT transport protocol interfacces."
Quantum 33 PDF 23 Section 4.2.2. Section 4.2.2 talks about various aspects
of device server interactions. It would be helpful to break it into subclauses. "Paragraphs 2 - 7 could be something like "command iteration". Paragraph 8 could be "sense data masking". Paragraph 9 could be "Tape Alert".
Quantum 34 PDF 23 Section 4.2.2. We jumped directly into talking about the
interaction of the device servers within the DTD without first giving an overview of all of the devices servers and application clients that may be found there. Add some text to describe all of the objects within the DTD that will be discussed in this standard.
Quantum 35 PDF 23 4.2.2, 1st paragraph, 1st sentence. Add "(ADT)" following
the phrase "data transfer device".
Quantum 36 PDF 23 4.2.2, 1st paragraph, last sentence. No mention is made of the fact that the RMC device server is only accessible on the DTD primary port(s) if enabled in the ADC Logical Unit descriptor. Add some clarification.
Quantum 37 PDF 24 1st paragraph after figure 3. This statement says that reservations are not supported, but 4.2.9 implies that they are, they are just
ignored at times. Add clarification.
Quantum 38 PDF 24 3rd paragraph after figure 3. Change "can" to "may".
Quantum 39 PDF 24 4th paragraph after figure 3. Change " issue a NOT READY
TO READY TRANSITION Unit Attention" to "establish a unit attention condition with an addition sense code value of NOT READY TO READY TRANSITION".
Quantum 40 PDF 24 5th paragraph after figure 3, 2nd sentence. Change "Unit

Attentions shall be issued..." to "Unit attention conditions shall be established..."
Quantum 41 PDF 24 5th paragraph after figure 3, 3rd sentence. Change "Unit Attentions shall" to "Unit Attention conditions shall". Replace "such as" with "e.g."
Quantum 42 PDF 24 6th paragraph after figure 3, 1st sentence. Change "A LOAD UNLOAD command issued to and performed by the ADC device server affects the readiness state of the RMC device server." to "A LOAD UNLOAD command processed by the ADC device server may affect the readiness state of the RMC device server."
Quantum 43 PDF 24 6th paragraph after figure 3, 2nd sentence. Change "This shall cause the RMC device server to issue appropriate Unit Attentions as well" to "If it does, the RMC device server shall establish appropriate unit attention conditions".
Quantum 44 PDF 24 6th paragraph after figure 3, 3rd sentence. Change "A LOAD UNLOAD command issued to and performed by the RMC device server affects the readiness of the removable medium, which also affects the ADC device server."
to "A LOAD UNLOAD command processed by the RMC device server may affect the readiness state of the ADC device server."
Quantum 45 PDF 24 6th paragraph after figure 3, 4th sentence. Change "This shall cause the ADC device server to issue appropriate Unit Attentions as well" to "If it does, the ADC device server shall establish appropriate unit attention conditions".
Quantum 46 PDF 25 4.2.2.1. This heading should be up one level at 4.2.3.
Quantum 47 PDF 25 4.2.2.1.1, 1st paragraph, 2nd sentence. Change "operation" to "feature". Remove "optional" from "...including the optional bridging manager...".
Quantum 48 PDF 25 4.2.2.1.1, 2nd paragraph, 1st sentence. Change "will receive" to "receives".
Quantum 49 PDF 25 4.2.2.1.1, 2nd paragraph, 1st sentence. Replace "operations or to provide information" with "tasks".
Quantum 50 PDF 26 last sentence before 4.2.2.1.3. It is unclear why this requirement is included. Elaborate on why the remote SMC device server can not report protocol specific mode pages.
Quantum 51 PDF 26 4.2.2.1.3, 2nd paragraph, 1st sentence. Replace "any device service reponses" with "a reponse from the Remote SMC device server"
Quantum 52 PDF 26 4.2.2.1.3, 2nd paragraph, 1st sentence. It is unclear why this requirement is included. Elaborate on why these UAs are discarded.
Quantum 53 PDF 26 4.2.2.1.3, 3rd paragraph, 1st sentence. It is unclear why this requirement is included. Elaborate on why the bridging manager is must be single threaded
Quantum 54 PDF 26 4.2.2.1.3, 3rd paragraph, 1st sentence. Replace "For this reason, queued requests..." with "Requests..."
Quantum 55 PDF 26 4.2.2.1.4, 1st paragraph, 1st sentence. Replace "In some implementations the..." with "The..."
Quantum 56 PDF 27 Section 4.2.3. This clause should be be broken into at least 2 subclauses (load and unload) and maybe more.
Quantum 57 PDF 27 1st paragraph after Table 1. Remove "at a minimum"
Quantum 58 PDF 27 3rd paragraph after Table 1. This paragraph does not really place any requirements on the device server. The paragraph would be stronger if reworded, for instance "The DTD shall set the in transition (INXTN) field to zero when an external stimulus (e.g. a command or physical translation of media) is required to attempt to reach another state."
Quantum 59 PDF 27 load state (c). Replace "such as a "load" command from the automation" with "(e.g. a LOAD UNLOAD command from the automation application client.)"
Quantum 60 PDF 27 Load state (e). Replace "such as a "thread" command

from
the automation" with "(e.g. a LOAD UNLOAD command from the automation
aplication client.)"
Quantum 61 PDF 28 Load state (g). Replace "such as a command from the
automation" with "(e.g. and LOAD UNLOAD command from the automation
application client)"
Quantum 62 PDF 28 Load state (i) sentence. Place e.g. clause in
parenthesis.
Quantum 63 PDF 28 Load state (i) sentence. I thought we wanted to include
FMR and cleaning tapes in this state. If so, then we need more text here to
make that clear.
Quantum 64 PDF 28 2nd paragraph after Table 2. The numbers in parantheses
at the end of the sentences are confusing. This might be more readable as a
numbered list
Quantum 65 PDF 28 1st sentence after Table 3. Remove phrase "at a
minimum"
Quantum 66 PDF 29 section 4.2.4. What is the value of this section? It is
no different than normal behavior.
Quantum 67 PDF 29 4.2.5, 1st paragraph, last sentence. Replace this
sentence with "If an application client is testing the status of the RMC
device, it
may see an initial failure even though the loading eventually succeeds and
the
MOVE MEDIUM command to the SMC device returns GOOD status."
Quantum 68 PDF 30 1st paragraph. Replace the phrase "the automation
device
will be able to retry the load without causing an unnecessary failure of the
backup"" with ""the automation device may be able to retry the load
operation
while the DTD reports the load operation is still in progress to application
clients that poll it".
Quantum 69 PDF 30 2nd paragraph. Replace "statuses" with "status"
Quantum 70 PDF 30 2nd paragraph. Replace "These values are
vendor-specific"
with "The status and sense data used are vendor-specific".
Quantum 71 PDF 30 3rd paragraph. Replace "If the data transfer device
implements sense data masking," with "If sense data masking is enabled in
the
data transfer device,".
Quantum 72 PDF 30 bullet list. Use lettered list instead.
Quantum 73 PDF 30 4.2.6, 1st paragraph, last sentence. Replace "whenever
a
state flag changes value" with "whenever a TapeAlert flags changes value"
Quantum 74 PDF 30 4.2.6, 2nd paragraph, 2nd sentence. Replace
"application
client" with "initiator port".
Quantum 75 PDF 31 1st sentence on the page. Replace "will" with "shall".
Remove the extra character after the last sentence in the paragraph.
Quantum 76 PDF 32 Table 5. This table needs a header on each page
Quantum 77 PDF 32 4.2.8, 1st paragraph. Change "allows" to "may allow" or
"shall allow".
Quantum 78 PDF 33 2nd paragraph, 2nd sentence. Change "received" to
"already received"
Quantum 79 PDF 33 3rd sentence. Remove "and re-enable of"
Quantum 80 PDF 33 4.2.9, letter list. There is no priority to the item
sin
this list, so it should be letter instead of numbered
Quantum 81 PDF 35 5.2, 1st paragraph. Replace "...is sent by the
automation
device to notify the data transfer device (DTD) of..." with "...is used to
notify the device server of..."
Quantum 82 PDF 35 2nd paragraph after Table 7. Add reference
"(see 4.2.2.1.4)".
Quantum 83 PDF 35 2nd paragraph after Table 7, 2nd sentence. Modify
"...the
use of any cached mode data shall be discontinued untila"" to ""...the use
of
any cached mode data by the local SMC device server (see 4.2.2.1.2) shall be
discontinued until...".
Quantum 84 PDF 36 1st and 2nd paragraph on the page. Replace "sense data"

and "additional sense code" with "addition sense data" (2 palces each).
Quantum 85 PDF 36 3rd paragraph on the page, second sentence. Replace "ASC
and ASCQ" with "ASC or ASCQ".
Quantum 86 PDF 36 2nd to last paragraph. Replace "initiator" with "initiator port".
Quantum 87 PDF 37 Table 8. Page code 13h is listed as mandatory in this table and optional in clause 6.1.4.
Quantum 88 PDF 37 6.1.2, 1st paragraph. Replace "The DTD Status log page (see table 9) defines the most critical data that is needed most frequently during normal operation"" with ""The DTD Status log page (see table 9) contains log information pertaining the removalble medium device and ports in
the DTD".
Quantum 89 PDF 38 section 6.1.2.1. In this section the descriptions are in
MSB to LSB order. All other sections list them LSB to MSB. Change the order of the bit description to be consistent.
Quantum 90 PDF 38 Following Table 11. Add "Refer to SPC-2 fo the definitions of the DU, DS, TSD, ETC, TMC, LBIN, and LP fields".
Quantum 91 PDF 38 Note 1. We don't understand this note, please clarify.
Quantum 92 PDF 38 Table 12. Byte numbers are supposed to be 4 - 7.
Quantum 93 PDF 38 last paragraph, 2nd sentence. Change "...be to..." to "...be set to...".
Quantum 94 PDF 38 last paragraph, 3rd sentence. Change "upon" to "following" or "after".
Quantum 95 PDF 39 paragraph after note 2, last sentence. Change "DTD" to "ADC device server.
Quantum 96 PDF 39 note 5 and the paragraph immediately preceding it. Change
"library" to "automation" (3 places).
Quantum 97 PDF 40 paragraph after note 6. Change "...respond "Ready" to a..." with "...respond with GOOD status to a...".
Quantum 98 PDF 40 paragraph after note 6, second sentence. The parathetical
phrase can't be left in parathesis. I'm not sure it is even required since the normative part of the sentence uses the term "typically".
Quantum 99 PDF 40 Table 13. Add value for "Erasing".
Quantum 100 PDF 40 Paragraph after note 7, 1st sentence. Change "interface status" to "one or more fields in the DTD Primary Port Status log parameters".
Quantum 101 PDF 40 Paragraph after note 7. Change "...status has not changed. This field is reset to zero after retrieval..." to "...status has not
changed since the last retrieval...".
Quantum 102 PDF 40 2nd paragraph after not 7, 2nd sentence. Change "resets"
to "sets".
Quantum 103 PDF 41 1st paragraph after table 15, 1st sentence. Replace this
sentence with "The PARAMETER CODE field contains a value from 101h to 01FFh which uniquely identifies the primary port relative to other primary ports in
the device, as assigned by the DTD independent of the port type".
Quantum 104 PDF 42 4th sentence after Table 16. Add a cuurent speed value of
"Unknown" and remove the requirement that LNPC be true for the CURRENT SPPED field to be valid.
Quantum 105 PDF 43 6.1.3, 1st paragraph. Remove the phrase "(see SSC-2 for a
description of TapeAlert and a definition of the flags)". If we need the cross
reference, it should be in section 4.2.6.
Quantum 106 PDF 43 6.1.4, 1st paragraph, last sentence. Replace "The automation device can obtain..." with "The application client should obtain...".
Quantum 107 PDF 45 Table 20. This table needs a header on each page.
Quantum 108 PDF 46 6.2.1, 5th paragraph. What about the other fields in the
Block Descriptor? Maybe we should just state that a Block Descriptor is not

supproted by an ADC device.
Quantum 109 PDF 48 Sentence before Table 28. Replace "The modify node name (MNN) field is used..." with "The modify node name (MNN) and WORLD WIDE NODE NAME fields are used.".
Quantum 110 PDF 48 Table 28. WWN should be spelled out to match the field name in Table 27 (4 places).
Quantum 111 PDF 49 6.2.2.2.1 1st paragraph. DTD Primary Port Descriptors should not be small caps.
Quantum 112 PDF 50 Paragraph before Table 33. Replace "The modify port name (MPN) field is used..." with "The modify port name (MPN) and PORT NAME fields are used...".
Quantum 113 PDF 50 Table 33. "PORT_NAME" should be "PORT NAME" with not underscore (4 palces).
Quantum 114 PDF 50 After table 33. We need to add a paragraph describing the form of the PORT NAME field. "Suggestion: 'When the MPN value is 11b, the PORT NAME field contains an NAA type world wide unique name (See SPC-3).
Quantum 115 PDF 50 First paragraph after Table 33. This paragraph implies that the port shall only try to get the hard address when RHA is set, and doesnAt say what to do if it is not and LIV is set." "Suggested rewording of this paragraph: ""If the loop ID valid (LIV) bit is set to one, the port shall use the value in the FC-AL LOOP ID field to set the Hard AL_PA during a LIHA process. If the LIV bit is set to zero, the FC-AL LOOP ID field is ignored and the port shall not select an address during the LIHA phase of loop initialization.
Quantum 116 PDF 51 1st and 2nd paragraphs after note 10. The description of P2P should come after TOPLOCK to keep the order consistent.
Quantum 117 PDF 52 Table 36. Throughout this table the test refers to the bus mode qualifier field. I think it should be referenceing the BUS MODE field.
Quantum 118 PDF 52 3rd paragraph after Table 36. "Invalid Field in Parameter List" should be all caps.
Quantum 119 PDF 52 3rd paragraph after Table 36. "I think we need a paragraph similar to this in the Fibre Channel sub-page description (6.2.2.2), or make it generic and put it in 6.2.2.1.
Quantum 120 PDF 52 6.2.2.3 1st paragraph. Add either a cross reference to SPC or a definition within this standard for the term W-LUN.
Quantum 121 PDF 55 1st paragraph, 1st sentence. "port" should be "port(s)".
Quantum 122 PDF 55 2nd paragraph. "Logical Unit Not Ready, Operation In Progress" should be all caps.
Quantum 123 PDF 55 1st paragraph after Table 39, 2nd sentence. "Autoload Mode" when refering to the field name in the Control mode page should be small caps.
Quantum 124 PDF 55 1st and 2nd paragraphs after Table 39. AUTOLOAD MODE should be described before AMO.
Quantum 125 PDF 56 4th paragraph, 1st sentence. Replace "...Mode Descriptor Block used by the device" with "Mode Descriptor Blcok used by the RMC device server".
Quantum 126 PDF 56 last paragraph before 6.2.2.3.2, 2nd sentence. Replace "reported" with "used".
Quantum 127 PDF 57 2nd and 3rd paragraphs after Table 41. Replace "DTD primary port" with "DTD primary port(s)" (3 places).
Quantum 128 PDF 57 5th paragraph after Table 41, 2nd sentence. Replace "...MODE SELECT command for which the parameter data would set the ENABLE field to zero and the CACHE field to one" with "...MODE SELECT command with the ENABLE field set to zero and the CACHE field set to one.".
Quantum 129 PDF 58 2nd paragraph after Table 42. Replace "DTD primary port" with "DTD primary port(s)" (2 places).
Quantum 130 PDF 59 bullet list. Should be a letter list.

Quantum 131 PDF 59 2nd paragraph after the bullet list. This paragraph states that the PE bit must be a saveable parameter in the port descriptors. If that is true, then it needs to be stated somewhere in 6.2. If it is not required
to be saveable, the default value should be 0 and that should be documented in
6.2.
Quantum 132 PDF 61 1st paragraph. "Capitalize "this".
Quantum 133 PDF 62 A.4.3.1. Change bullet list to lettered.
Quantum 134 PDF 62 A.4.3.1. This example is odd since it specifies a value for P2P but sets TOPLOCK to 0 which by defintion means that the P2P bit is ignored. The same comment applies to the speed values.
Quantum 135 PDF 64 A.4.4.1. Change bullet list to lettered.

ADIC 1 global. Five occurrences of "library" throughout. Should be changed to "automation device".
ADIC 2 hcv para 2. Change "which is" to "that is".
ADIC 3 hcxi para above ed. Note e. Change "At the time of it approved" to "At the time it approved".
ADIC 4 hcxi last para. Change "which developed" to "that developed".
ADIC 5 hc5 3.1.11. Change "executes" to "processes".
ADIC 6 hc6 3.1.27. Change "which receives" to "that receives".
ADIC 7 hc7 3.1.36. Change "executes" to "processes".
ADIC 8 hc10 4.1 para 2. Change "a automation" to "an automation".
ADIC 9 hc10 4.2.1 para 1. Change "which processes" to "that processes".
ADIC 10 hc10 4.2.1 para 2. Change "which controls" to "that controls".
ADIC 11 hc10 4.2.1 para 1. Change "will contain" to "contains".
ADIC 12 hc10 4.2.1 para 1. Change "will typically receive" to "typically receives".
ADIC 13 hc10 4.2.1 para 2. Change "will typically contain" to "typically contains".
ADIC 14 hc10 4.1 para 1. Change "specification" (2x) to "standard".
ADIC 15 hc12 para 4. Change "which corresponds" to "that corresponds"
ADIC 16 hc12 para 6. Change "which also" to "that also".
ADIC 17 hc12 para 3. Change "can affect" and "can override" to "may affect" and "may override".
ADIC 18 hc13 4.2.2.1.1 para. Change "which resides" to "that resides".
ADIC 19 hc13 4.2.2.1.2 para 1. Change "which originated" to "that originated".
ADIC 20 hc13 4.2.2.1.2 para 2. Change "executed" to "processed".
ADIC 21 hc13 4.2.2.1.1 para 2. Change "will receive" to "receives".
ADIC 22 hc13 4.2.2.1.1 last para. Change "can be used" to "may be used".
ADIC 23 hc14 4.2.2.1.4 para 1. Change "data or status from" to "data or status received from".
ADIC 24 hc14 4.2.2.1.4 para 4. "When the would" awkward <no suggestion>.
ADIC 25 hc15 4.2.3 next to last. MAM not spelled out, first use, needs expansion.
ADIC 26 hc15 4.2.3 para 7. Change "can relinquish" to "shall relinquish"
ADIC 27 hc16 para 6. Change "which is" to "that is"
ADIC 28 hc17 para 1. Reference to RRqst, InXtn needed, add clause link.
ADIC 29 hc17 para 10. Change "could use" (2x) to "may use"
ADIC 30 hc18 4.2.6 para 3. Change "which requires" to "that requires".
ADIC 31 hc18 4.2.6 para 1. Change "reset" (2x) to "set".
ADIC 32 hc18 last para. Change "shall not reset the" (all three occurrances) to "shall not set the state flags to zero.".
ADIC 33 hc18 para 1. Change "will be able" to "should be able".
ADIC 34 hc19 before table 5. Change "reset" to "set state flags to zero".
ADIC 35 hc19 table 5. "title "reset", field "reset".
ADIC 36 hc19 para 1. Change "will be" to "shall be".
ADIC 37 hc20 4.2.8 para 1. Change "which modify" to "that modify"
ADIC 38 hc20 below table. Change "reset" to "set to zero".
ADIC 39 hc20 para 2. Change "reset" to "set to zero".
ADIC 40 hc20 para 1. Change "will vary" to "varies".
ADIC 41 hc20 para 2. Change "specification" to "standard".
ADIC 42 hc21 para 2. Change "When an..., if..." to "If the transport...,

and an enabled port is".
ADIC 43 hc21 4.2.9. Change "which" (3x) to "that". Strike "must" also.
ADIC 44 hc21 4.2.10 step 5. Change "can proceed" to "proceeds"
ADIC 45 hc23 5.2 para 2. Change "device will not" to "device shall not".
ADIC 46 hc23 last para. Change "It can also" to "It may also".
ADIC 47 hc25 6.1.2. Define way to retrieve drive status display character(s). Provide log page or parameter to retrieve LED or equivalent display code (to mimic drive panel and get error info). Need proposal
ADIC 48 hc26 note 1. Change "drive" to "DTD".
ADIC 49 hc26 below table 12. Change "drive" (2x) to "DTD".
ADIC 50 hc27 para after note 3. When Cmpr is enabled, how to find compressoin ratio? Need proposal to find compression ratio.
ADIC 51 hc27 para 5. Can we define the difference between requested and required?
ADIC 52 hc27 para 5. Change "must" to "shall".
ADIC 53 hc27 para 8. Change "library" to "automation".
ADIC 54 hc27 note 4. Change "drive" to "DTD".
ADIC 55 hc27 note 5. Change "drive" to "DTD".
ADIC 56 hc27 para 1. Change "can" and "cannot" to "is able to" and "is not able to".
ADIC 57 hc27 para 5. Change "can" to "is able to".
ADIC 58 hc27 para 8. Change "media can be" to "media is able to be".
ADIC 59 hc28 RRqst field. How does a power cycle affect this? Clears due to hard reset, power cycle, etc.
ADIC 60 hc28 table 13. What constitutes tape in motion? Tape is in motion for 05h-08h, so what is 04h?
ADIC 61 hc28 note 6. Change "drive" (2x) to "DTD".
ADIC 62 hc28 para 2. Change "reset" to "set".
ADIC 63 hc28 para below note 7. Change "reset" to "set".
ADIC 64 hc28 last para. Change "resets" to "sets".
ADIC 65 hc29 below table 15. Change "which uniquely" to "that uniquely".
ADIC 66 hc30 para 4. Change "can be" to "are".
ADIC 67 hc30 last para. Change "can be" to "are".
ADIC 68 hc31 6.1.4. Change "which contains" to "that contains".
ADIC 69 hc31 6.1.3 para 1. Change "reset" to "set".
ADIC 70 hc31 first para. Change "can be" to "are".
ADIC 71 hc31 last para. Change "can obtain" to "may obtain".
ADIC 72 hc32 Table 20. Recovery actions 09h-0Ch persist across power cycle or not? Need to clarify persistance of recovery procedures (state that reconditioned upon initialization?).
ADIC 73 hc32 table 20. Can recovery 03h be used as substitute for 02h if the automation cannot push?
ADIC 74 hc33 6.1.5. "Change can not be reset" to "are not able to be set to zero".
ADIC 75 hc33 para 2. Change "will cause" and "will not" to "would cause" and "shall not".
ADIC 76 hc34 note 9. Change "can be" to "may be".
ADIC 77 hc37 last para. Change "can be" to "are".
ADIC 78 hc39 para 5. Change "can be found" to "are found".
ADIC 79 hc43 para 4. Change "can be used" to "may be used"
ADIC 80 hc44 para 4. Change "will select" and "will be" to "shall select" and "shall be".
ADIC 81 hc44 para 2. Change "can include" to "may include".
ADIC 82 hc47 para 3. How does the automation device perform a hard reset?
ADIC 83 hc48 A.3 para 1. Change "drive" to "DTD".
ADIC 84 hc52 A.4.4.1 bullet 3. Change "drive" to "DTD".

****

Comments attached to No ballot from Gerald Houlder of Seagate Technology:

Company
Number
Page

Reference
El/T
Comment
Suggestion

Seagate
1
22
4.1 para. 1
E
Tautology: "The SCSI automation drive interface class specifies the behavior
of a logical unit that is primarily an automation drive interface device."
Change to "The SCSI automation drive interface class specifies the behavior of
a logical unit that is implemented in a removable medium device (such as a
tape drive) to permit control over the device by an automation device."

Seagate
2
24
4.2.2 Fig. 3
E
Dashed and solid lines are difficult to distinguish lines
Change dash style? Or, split this into two figures, one for bridging, one
without.

Seagate
3
24
4.2.2 3rd para. After Fig. 3, second sentence
E
Awkward wording: "...server for operations, e.g. ..."
"...server, e.g. ..."

Seagate
4
24
4.2.2 4th para. after Fig. 3, 3rd sentence
E
Unit Attentions are "reported", not "issued"
"...server shall report a ..."

Seagate
5
24
4.2.2 4th para. after Fig. 3, 3rd sentence
E
DAcc reference not clear
".. readiness of the removable medium in the data transfer device. This
corresponds to a value of 1 in the DAcc bit in the VHF data (see 6.1.2.1)."

Seagate
6
25
4.2.2 first Para. on page, 2nd sentence.
E
Unclear wording
"...was configured to mask sense data changes..." s/b "was masking sense
data
changes..."

Seagate
7
*
*
E
Are one-bit fields "fields" or "bits"?
Standard usage, if any.

Seagate
8
25
4.2.2.1.2 1st Para, 2nd sentence
E
Unclear explanation about remote SMC device server not having initiator port information.
"Because the transport protocol connecting the bridging manager and the remote
SMC device server may not carry information about which initiator port originated a request, the remote SMC device server cannot implement the full set of commands. Thus, the local SMC device server shall service commands and
task management functions that require knowledge of the originating initiator
port."

Seagate
9
25
4.2.2.1.2 1st Para,last sentence
E
"Is the correct terminology "bridge" or "gateway"? This came up in FC-FS at 8/2003 T11."
Determine preferred terminology.

Seagate
10
26
4.2.2.1.4, 3rd Para.
T
If caching disabled, need to specify that ADC can ignore CACHE bit.
Change first sentence to: "If caching is disabled, then the ADC device server
shall ignore the bridging status byte in the NOTIFY DATA TRANSFER DEVICE command. Thus, the automation application client need not invoke the command
for purposes of indicating changes in cached data."

Seagate
11
27
4.2.3
E
Incorrect usage of "media", since there's only one in the DTD.
Change to "medium"

Seagate
12
29
4.2.3
E
"to hold point" needs an article. Two occurences, in descriptions of states e
and f.
Change to "to the hold point"

Seagate
13
29
4.2.5 1st para. 2nd sentence
E
DTD implements masking, but RMC device server reports status.
Change "...testing the status of the device, ..." to "...testing the status of
the RMC device server, ..."

Seagate
14
30

4.2.5 1st Para. on page
E
DTD implements masking, but RMC device server reports status.
Change "If the data transfer device's status is masked..." to "If the RMC device server's status is masked..."

Seagate
15
30
4.2.5 2nd Para. on page
E
DTD implements masking, but RMC device server reports status.
Change "the data transfer device shall report" to "the RMC device server shall report"

Seagate
16
30
4.2.5 Bullet item 3
E
DTD implements masking, but ADC device server executes NOTIFY DTD.
Change "The data transfer device receives ..." to "The ADC device server receives ..."

Seagate
17
30
4.2.5
E
Need to clarify action after exiting masking mode
Add new para. before the last one in 4.2.2: "After exiting masking mode, the RMC device server shall report SCSI statuses and sense data consistent with successful or unsuccessful completion of loading, as appropriate."

Seagate
18
30
4.2.6 last Para. on page
E
Typo
Change "independent" to "independently"

Seagate
19
32
4.2.6 1st Para. after Table 5
E
Noun needs article
Change "...the start of next media load." to "...the start of the next media load."

Seagate
20
32
4.2.8
E
Mode page name is not correct
Change "device specific mode page" to "device configuration mode page" and add cross reference to clause with ADC device configuration mode page,"

Seagate
21
33
4.2.9
T
Should we mention REPORT LUNS?
TBD

Seagate
22
33
4.2.10
E
Which device server is unclear
List items 1 and 5: Change "DTD" to "RMC device server"

Seagate
23
34
5.1 Table 6
E
READ BUFFER command lists SSC as reference
Should be SPC-2

Seagate
24
34
5.1 Table 6
E
Notes run into right border
Fix

25
36
5.x
T
A mechanism is needed for automation to update its microcode from a
microcode
tape.
Define a new ADC device server buffer which can be accessed when a microcode
medium is loaded. Reading the buffer provides the contents of the tape.
Writing the buffer changes the contents of the tape, unless write-protected.
Define ASC/Q to be reported if the medium loaded is not a microcode medium.
(This could be put in the commands clause by adding subclauses for
READ/WRITE
BUFFER, and having each refer to the command definitions in SPC-2, and also
define the new buffer. Alternatively, could this go as a new subclause in
6,
Parameters for ADI devices?)

Seagate
26
39
6.1.2.1, 1st Para on page
E
Per SPC-3, MAM is "Medium..." not "Media..."
Change all occurrences of "media auxiliary memory" to "medium auxiliary
memory" Also change separate occurences of "media" to "medium" as
appropriate.

Seagate
27
39
6.1.2.1, 5th Para on page
E
1st sentence of CRqrd description is not clear.
Change to "A value of one in the clean required (CRQRD) field indicates that
a
head cleaning operation must be done before a data cartridge can reach the
data accessible state, and that normal operation may not be possible if the
cleaning is not performed."

Seagate
28
39
6.1.2.1, 7th Para on page
E

1st sentence of InXtn description is unclear
Change "whether activity relative to state transitions is taking place." to
"whether a state transition may take place."

Seagate
29
39
6.1.2.1, last two Paras. on page
E
Media vs. medium
Change all occurrences of "media" to "medium", including field name. Say "a
medium" where appropriate.

Seagate
30
40
6.1.2.1, 1st Para. on page
E
Media vs. medium
Change all occurrences of "media" to "medium", including field name. Say "a
medium" where appropriate.

Seagate
31
40
6.1.2.1, 2nd Para. on page
E
Media vs. medium
Change "when cleaning or microcode image media are" to "when a cleaning or
microcode image medium is"

Seagate
32
40
6.1.2.1, 1st Para. after Table 13
E
Cross reference needed
"At end of 1st sentence, insert cross reference to 6.1.4.

Seagate
33
40
6.1.2.1, Note 7
E
Reword note
Change "The recommended or requested recovery procedure in the log page may
indicate that a recovery procedure is not requested or not defined." to "The
log page may indicate that a recovery procedure is not defined."

Seagate
34
40
6.1.2.1 last Para. on page
E
Split infinitive
Change "to not find any difference" to "to find no difference"

Seagate
35
41
6.1.2.2
T
Should the device server enforce the polling delay, and if so how?
"Either change "shall" to "should" in last paragraph or mandate Check
Condition / Illegal Request / new ASC if LOG SENSE for the page is issued
too
soon. Or is this too ugly?

Seagate
36

42
6.1.2.3.1 Table 16
T
Eight speeds for FC may not be enough
Shift Current Speed field to bits 5:3, leaving 6 Reserved. This will give one
bit for expansion.

Seagate
37
45
6.1.4 last Para. in clause
E
Tense unclear
Change "medium is accordingly removed," to "medium has been accordingly removed,"

Seagate
38
46
6.2.1 2nd Para.
E
Missing verb
Change "are in SPC-2" to "are described in SPC-2"

Seagate
39
46
6.2.1 Note 9
T
Rejecting mode parameter change because port is enabled: Is a specific ASC needed so that it will be clear why Illegal Request is being reported? Promote note to normative text and get an ASC/Q from CAP. Don't need to specify which parameters are subject to this restriction; that can be left as
vendor specific.

Seagate
40
47
6.2.2 1st Para. after Table 26
E
Word choice
Change "comprised" to "composed". I think.

Seagate
41
49
6.2.2.2.1 Table 31
T
Need iSCSI and SAS port types
Change SPC-2 reference to SPC-3, because SAS is not in SPC-2. Add 5h for iSCSI and 6h for SAS. See Table 239 in SPC-3 for full text.

Seagate
42
50
6.2.2.2.2 Table 32
T
Eight speeds for FC may not be enough
Shift Speed field to bits 3:1 and SpdLock field to bit 0. This will give a Reserved field to the left of Speed for future expansion.

Seagate
43
51
6.2.2.2.2 Table 34
T
A speed of 8 Gb/s is being proposed by FCIA to succeed 4 Gb/s.
Add 8 Gb/s at 011b and move 10 Gb/s to 100b.

Seagate
44
57
6.2.2.3.2 Table 41
E
Specify device type in table
In byte 1 row, change "device type" to "device type (08h)"

Seagate
45
57
6.2.2.3.3 Table 42
E
Specify device type in table
In byte 1 row, change "device type" to "device type (12h)"

Seagate
46
61
Annex A
E
Some switches will not accept certain NAA values for node names.
Investigate with T11 and change text and table if example node name violates
a
standard.

****

Comments attached to Yes ballot from Erich Oetting of
Storage Technology Corp.:

STK 1 - PDF 12, INTRODUCTION - Remove the word "type" from sentences starting
"Clause 4, 5
and 6.

STK 2 - PDF 12, INTRODUCTION, last sentence. - "annexes" should be "annex",
or remove the
entire sentence if the annex is removed.

STK 3 - PDF 13, Clause 1, first paragraph - Replace first sentence with
"This standard defines
the model, command set and parameters for SCSI automation drive interface
devices."

STK 4 - PDF 13, Clause 1, second paragraph - Replace sentence with "The
objectives of the
Automantion/Drive Interface Commands standard are:"

STK 5 - PDF 14, clause 1, second sentence on page. Remove "Pysical
Interconnects:"

STK 6 - PDF 19, clause 3.2 - Symbols for "not equal", "less than or equal"
and "greater than or
equal" are incorrect.

STK 7 - PDF 19, clause 3.2 - Delete symbols that are not used in document.
(i.e., "<").

STK 8 - PDF 19, clause 3.2 - Remove abbreviations that are not used in
document. (CA, CRC,
DUT, ILI, ISI, SAM-2)

STK 9 - PDF 19, clause 3.2 - Definition for SMC-2 should be "SCSI Media
Changer Commands -
2".

STK 10 - PDF 19, clause 3.2 - SSC and SSC-2 are "Stream Commands", not

"Streaming
Commands".

STK 11 - PDF 27, Table 1 - Move information following this table, such as
"load state (a)
represents ..." inside the table.

STK 12 - PDF 28, Table 3 - Move information following this table, such as
"unload state (a)
reflects ..." inside the table.

STK 13 - PDF 30, clause 4.2.5, first sentence on page " - i.e., ... -" should
be "(i.e., ...)".

STK 14 - PDF 30, 4.2.5, second paragraph on page, first sentence. Change
"statuses" to
"status".

STK 15 - PDF 34, Table 6 - Operation codes for each command should be
included in this table.

STK 16 - PDF 34, Table 6 - Change SPC-2 references to SPC-3 unless the
command is obsolete
in SPC-3.

STK 17 - PDF 34, Table 6 - Remove notes field. These details are defined in
the referenced
standards.

STK 18 - PDF 34, Table 6 - Read attribute should be optional, not mandatory.

STK 19 - PDF 37, clause 6.1.1 - Replace first sentence with "This clause
defines the log pages
and parameters for ADC devices."

STK 20 - PDF 51, table 34 - Replace speed values with correct FC baud rates.
(i.e., 1.06 Gb/sec
iinstead of 1 Gb/sec.)

STK 21 - PDF 58, clause 6.3.1 - Subclause header should be removed.

STK 22 - PDF 59, Annex A - Remove annex.

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Comments attached to Abs ballot from Roger Cummings of
Veritas Software:

Not within our organization's area of concern.

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Comments attached to Abs ballot from Kenneth Hirata of
Vixel Corp.:

This specification does not directly or materially affect Vixel Corporation's

products.

********** End of Ballot Report **********