SSC-3 Revision 04a Letter Ballot Comment Database (08-095r2)

Company number	tech/edit	Page	Sec/table/fig locator	Comment	Proposed Solution	Resolution	Status
IBM 76	T	86	4.2.23.3 p2	Comment= may ensure s/b ensures		Verifying the key wrapper's signature allows a device server that supports public key cryptography for key wrapping to ensure the authenticity of the wrapped key.	
SYM-001	T	xviii	Foreword	In the second paragraph, the name of the field and the structure containing it are incorrect, and the reference should be to the published SAM-3.	This standard specifies the external behavior of a device server that defines itself as a sequential-access device in the PERIPHERAL DEVICE TYPE field of the standard INQUIRY data. This device type is known as a stream device. This standard conforms to ANSI INCITS 402-2005, SCSI Architecture Model - 3.	A	
SYM-002	T	xviii	Foreword	The foreword contains a conformance statement that does not occur anywhere else in the text.	Add a sentence to the first paragraph of 1 Scope that reads "The definitions in this standard conform to the requirements of SAM-3."	A Also change references to SAM-4 and SPC-4.	
SYM-003	T	1	Scope	The reference to the Inquiry field in item a) of the list is incorrect.	a) permit an application client to communicate over a SCSI service delivery subsystem, with a logical unit that declares itself to be a sequential-access device in the PERIPHERAL DEVICE TYPE field of the standard INQUIRY data (see SPC-3);	A	
SYM-005	T	3	2 Normative References	Add ADC-2, PKCS #1, ANSI X9.63, ISO/IEC 18033-2 to the list of references (ADC is referenced in 4.2.3 & Table 2, PKCS in 8.5.2.10.2, ECC & ANSI X9.63 in 8.5.2.10.3, ISO/IEC 18033-2 in 8.5.3.2.4.3)	Add references	A	
SYM-006	T	5	3.1.3 Auxiliary memory	Delete the definition of auxiliary memory. Wherever the term is used in the document its preceded by "medium" and there's already a definition for that.	Delete the definition.	R No change, current text allows for the addition of other types of auxiliary memory in the future.	
SYM-007	T	7	3.1.44 medium auxiliary memory (MAM)	This definition should reference the definition in SPC-4.	An auxiliary memory residing on a medium that is accessible to the device server (e.g., a tape cartridge). See SPC-4.	A	
SYM-008	T	7	3.1.51 page	The page definition should be the same as, and should reference, SPC-3.	page: A regular parameter structure (or format) used by several commands. These pages are identified with a value known as a page code. (see SPC-4)	R	

SYM-019	T	54	4.2.21.5 Keyless copy	This section should identify: a) How an application client determines that a Logical Unit has the capability to act as a KCSLU or a KCDLU; b) How an application client enables or disables this capability;		Kevin and Roger to research and provide input (see minutes for action items).	
SYM-023	T	61	4.2.22 External data encryption control	The interaction between this feature and the encryption mode locking defined in 4.2.21.11 needs to be defined. Specifically, can a lock be placed when the data encryption paremeters are under external control?		A Add lock bit to 4.2.21.8 first unordered list Table 133 remove the "not" in 011b and 100b	
QTM-pas-002	T	18	Foreword, 2nd para.	Refers to SAM-3. Is this correct?	SAM-4 ?	A	
QTM-rbw-36	T	53	Figure 13	So there's no way to return to A0 from F0, E0, or E1?		Dave to review.	
QTM-rbw-43	T	61	Table 10	Not all six severities are used in Table 10		AinP Change table heading to "Default severity"	
QTM-rbw-46	T	64	Table 10	Should we add TA flags for data encryption/decryption errors?		AinP Deferred to SSC-4.	
QTM-rbw-59	T	67	4.2.17.4 p3	In addition to the deactivation conditions for all TapeAlert flags (see 4.2.17.3), the device server shall activate	s/b ...shall deactivate...	A The device server shall deactivate TapeAlert flags 3Bh and 3Ch: a) upon processing of a LOAD UNLOAD command with a load bit set to one (see 7.2) that results in a not ready to ready transition; b) upon processing of a LOAD UNLOAD command with a load bit set to one (see 7.2), if both the medium and device server support MAM, that results in access to medium auxiliary memory only; c) upon processing of an autoload operation (see SPC-4) that results in a not ready to ready transition; d) when both the medium and device server support MAM, that results in access to medium auxiliary memory only; or e) upon the occurrence of a deactivation	
QTM-rbw-73	T	72	4.2.21.3, 4th para, 4th sentence:	If the device server is capable of determining that the encryption	s/b determining that the decryption	AinP Add a term and defintion for logical block key and review the use of key, encryption key, and decryption key throughout the standard.	

QTM-rbw-78	T	73	4.2.21.3 last p	A device server that is capable of both determining if the encryption	s/b For each encrypted block, a device server...	AinP Dave to reword appropriately: For each encrypted logical block, a device server that is capable of determining if the logical block key is correct for the encrypted logical block and validating the integrity of the logical block after decrypting it shall: 1) determine if the logical block key is correct for the encrypted logical block; and 2) validate the integrity of the logical block.	
QTM-rbw-79	T	73	4.2.21.4 p1	encryption algorithm being broken	What does "being broken" mean?	A Change to: The use of such a mechanism may protect against an encryption algorithm being compromised.	
QTM-rbw-80	T	73	4.2.21.4 last p, last s	This condition shall persist until the volume is demounted or a hard reset condition occurs.	Comment: Someone that has enough control to be setting encryption parameters and sending keys to try certainly has the ability to demount/remount a volume or instigate a hard reset. As such, is this mechanism really providing much value?	R Yes it is useful because it slows down the process of exhaustive search and provides an indication something is awry.	
QTM-rbw-85	T	75	4.2.21.6 p3, s2	The method by which keys and their associated vendor-specific key references are made available to the device server is outside the scope of this standard.	(Isn't this the SPOUT command and Tape Data Encryption protocol?)	R Sentence is technically correct.	
QTM-rbw-89	T	76	4.2.21.6 last p	After a vendor-specific event, doesn't the physical device still need to release resources?		R Releasing resources is implicit in either changing or clearing data encryption paramters.	

QTM-rbw-97	T	79	4.2.21.13 p1, s1	What is plaintext?		AinP Some encryption algorithms allow or require the use of additional data which is associated with the key and the logical block, but which is not encrypted. It may be authenticated by being included in the message authentication code (MAC) calculations for the encrypted logical block if such a MAC exists, or unauthenticated by not being included in these calculations.	
QTM-rbw-103	T	81	Note 13	NOTE 13 The SECURITY PROTOCOL IN command specifying the Tape Data Encryption security protocol and the Data Encryption Status page may be used to determine whether external data encryption control has been used to provide a set of data encryption parameters.	Limited to just provide, or includes establish, change, or control? (as in previous wording)	AinP (see SYM-022 also) Curtis to research and provide input.	
QTM-rbw-111	T	85	4.2.22.4 p1, s2	then the device server shall respond to a SECURITY PROTOCOL IN command specifying the Tape Data Encryption security protocol and the Data Encryption Status page with the PARAMETERS CONTROL field set to011b or 100b.	Respond with what?	A Change to: If control of data encryption parameters by this device server has been prevented by external data encryption control and the device server returns a Data Encryption Status page, then the PARAMETERS CONTROL field shall be set to 011b or 100b.	
QTM-rbw-119	T	124	7.4 p1	The PREVENT ALLOW MEDIUM REMOVAL command (see table 44) requests that the logical unit enable or disable the removal of the medium.	Wouldn't it be more accurate to say 'removal of the volume' since that is the physical carrier of the medium? Could add a sentence to say removal includes volume.	A Also change initiator port to I_T_L nexus. Possibly change to "… medium (i.e., volume)." Dave to review.	
QTM-rbw-121	T	124	7.4 p1 after table 45	The prevention of medium removal shall begin when any application client issues a PREVENT ALLOW MEDIUM REMOVAL command with a PREVENT field of 01b (i.e., medium removal prevented).	Suggest stating that it begins after device server successfully processingcommand	A	
QTM-rbw-122	T	124	7.4 unordered list item a) A)	receipt of a PREVENT ALLOW MEDIUM REMOVAL command with a PREVENT field of 00b;	Suggest rewording as device server successfully processing command. Also need an 'or' after this A) item (indented list)	A	

QTM-rbw-139	T	147	8.2.2 table 64	What is the parameter format for the log page specified in 8.2.2? Seems to be missing (e.g., what size are the parameters?)		R The size is implementation dependent and the log parameter has a length field.	
QTM-rbw-143	T	156	8.2.5 ordered lsit	1) the BARCODE field...	This should be a lettered list.	R The list is an ordered list.	
QTM-rbw-148	T	159	8.2.6.3 p2 after table 79	The DEVICE SEVERITY CODE field is specified in table 9.	Table 9 specifies the TapeAlert flag severities; suggest dropping 'DEVICE' from this field name (as well as similar in table 82) to make common.	AinP Table 70: The DEVICE SEVERITY CODE field contains a severity code (see table 9). Fix typo in table 70 byte 2 and table 82 byte 2. Table 82: The VOLUME SEVERITY CODE field contains a severity code (see table 9). VOLUME INFORMATION LENGTH (n) s/b VOLUME INFORMATION LENGTH (n-1)	
QTM-rbw-152	T	161	8.2.6.4 p1	The VOLUME SEVERITY CODE field is specified	(see previous comment on table 79)	A See QTM-rbw-148.	
QTM-rbw-155	T	161	8.2.6.4 p1 after table 84	The VOLUME IDENTIFICATION LENGTH field specifies the length of the volume identification descriptors.	The length of one descriptor or all of them?	A Table 82: remove VOLUME IDENTIFICATION LENGTH (n-5) and associated text.	
QTM-rbw-157	T	161	8.2.6.4 last p	1) a MAM attribute...	This should be a lettered list.	R It is an ordered list by design. But fix typo in item 1) and place if in front of each item.	
QTM-rbw-159	T	164	8.2.7.2 p5,s2 after table 88	If the INTXN bit in the VHF data descriptor of the DT Device Status log page (see ADC-2) is set to one, the parameter shall report only code 00h (i.e., Recovery not requested).	This appears to be a problem, as this bit is controlled by another device server (i.e., ADC not SSC). How can one device server qualify the behavior of another? Need to move into physical device?	AinP Editor to specify that there shall be one instantiation of the DT Device Status log page for each SSC and ADC device server. Similar issue with TapeAlert response log page. Also fix typo in the "The PARAMETER CODE field shall be …" sentence.	
QTM-rbw-161	T	164	Table 89	Table 89 — Recovery procedures	How do these recovery procedure requests interact with the ADC recovery requests? May not want the ADC and SSC requests to conflict or collide. Model clause needed?	R This is an implementation issue. Capitalize first letter in table 89 codepoint 01h.	
QTM-rbw-164	T	165	8.2.7.2 p1,s1 after table 89	and the RRQST bit in the VHF data descriptor of the DT Device Status log page (see ADC-2) is set to zero,	Same as previous comment on inter-device server interaction. Two more places following also.	R See QTM-rbw-159 and QTM-rbw-161.	

QTM-rbw-179	T	191	8.4.5 p2,s2 after table 117	via the Automation Device Serial Number subpage, see ADC-3),	This is no longer a valid reference.	A Remove (e.g., …)	
BRO-001	T	56	4.2.21.6	Resolve editors note. This editors note applies to the whole standard.	see note	Editor to provide input.	
BRO-002	T	60	4.2.21.11	Resolve editors note. This editors note applies to the whole standard.	see note	Editor to provide input.	
BRO-003	T	67	4.2.23.3	Resolve editors note. This editors note applies to the whole standard.	see note	Editor to provide input.	
BRO-004	T	195	8.5.3.2.1	Resolve editors note.	see note	Editor to provide input.	
BRO-005-L	T		global	Use of the term "physical device".	Provide better term reflect the functionality/behavior.	Editor to provide input.	
BRO-006-L	T			Why is table 94 note b tied to Protocol Specific LUN?		Editor to provide input.	
BRO-007-L	T		global	Use volume is mounted or medium is mounted.		Editor to provide input.	
BRO-008-L	T			In CAP working group, the format of the permission's bit table that came in with the CbCS proposal (Table 20 — Association between commands and CbCS permissions on physical page 68) was changed (see 08-145r1). That formatting change needs to be carried into SSC-3. The change is to change the 'v' to a '1' and add footnotes describing what a blank is.		A	
EMC-001	T	192	8.5.3.2.1	From the spec it looks like if the SDK_C bit is set then the device supports supplemental decryption keys but the only way to determine how many is by setting the SDK's until you get a MAXIMUM NUMBER OF SUPPLEMENTAL DECRYPTION KEYS EXCEEDED error (Set Data Encryption Page for SECURITY PROTOCOL OUT - 8.5.3.2.1, p.192). It would be nice if SECURITY PROTOCOL IN could provide that info before the error occurs, perhaps in the Data Encryption Algorithm descriptor.		General agreement with the comment. Erich O. to research and provide input (see minutes for action item).	
HPQ-361	T	83	Table 16	Default setting requirement needs to be removed.	Remove the sentence: "This is the default setting for the data encryption parameters for decryption request policy."	A	
HPQ-360	T	82	Table 15	Default setting requirement needs to be removed.	Remove the sentence: "This is the default setting for the data encryption parameters for encryption request policy."	A	
QTM-rbw-17	T	34	4.2.2 p6	Ready is the state of the logical unit when medium access and non-medium access commands may be processed.	Aren't TUR, INQUIRY, REPORT LUNS, etc non-medium access commands? Is the logical unit Ready with no media mounted and able to process these commands?	Editor to review usage of ready state and provide input.	
QTM-rbw-28	T	48	4.2.13.2 unordered list after table 6	c) the medium is an archive tape	Definition or reference for 'archive tape'?	A Change to ""… archive tape (see 4.2.20) …"	
QTM-rbw-104	T	81	4.2.22.3.1	Numbered list should be lettered list.		A	

QTM-pas-039	T	84	4.2.22.3.4 After last lettered list on page	A statement is needed about how the timeout value is set.	Add paragraph: "The means by which the data encryption parameters timeout value is set is beyond the scope of this standard."	A Change to: The data encryption parameters period settings (see 4.2.3) shall contain a data encryption parameters period time, a data encryption period timer, and a data encryption parameters period expired indicator.	
QTM-rbw-188	T	202	Table 133	Table 133: 011b Data encryption parameters are not exclusively controlled by the automation/drive interface device server. 100b Data encryption parameters are not exclusively controlled by a management interface.	These should both be "are exclusively controlled"	A See XXX.	
SYM-004	edit	1	Figure 1	Correct the label "Shared Command Set (for all device types)" to match the text used in other standards.	Primary Command Set (for all device types)		
SYM-009	edit	7	3.2 Acronyms	Add the following acronyms	ADC Automation Device Control, PEWZ , SDK, RSA, ECC		
SYM-010	edit	15	Figure 3	Ther terms BOM & EOM (and BOP & EOP) are used throughout this section, but are never fully defined.	Spell out acronym on first usage.		
SYM-011	edit	17	4.2.3 Physical Device	The reference SSC & ADC in item a) is very cryptic and needs to be expanded.	(e.g. where a physical device is associated with a auotmation device that can perform media movement, both a device server that implement the commands set defined in this standard and a device server that impements another command set such as ADC-2 may control the device);		
SYM-012	edit	18	Figure 8	The names in three of the boxes have been cropped.	Correct		
SYM-013	edit	20	4.2.5	Define PEWZ on first usage.			
SYM-014	edit	21	4.2.6 Partitions within a volume	Use (n) for the partition number to avoid confusion with Box & EOx.	Each partition (n) within a volume has a defined beginning-of-partition (BOP n), an early-warning position (EW n), and an end-of-partition (EOP n).		
SYM-015	edit	22	4.2.7.1 Logical objects within a partition	Use (n) for the partition number to avoid confusion with Box & EOx.	The area between BOP n and EOP n….		
SYM-016	edit	52	4.2.21.1 Data Encryption	Change the red text in this section to black.			

SYM-017	edit	52	4.2.21.1 Data Encryption	The first sentence of this section is prone to giving the erroneous impression that a device can decypt the contents of a logical block on the media and replace the block on the media with unencrypted information, and thus needs clarification.	A device compliant with this standard may contain hardware or software that is capable of encrypting the data within logical blocks as those blocks are stored on the media, and decrypting the data within logical blocks as those blocks are read from the media, to provide security against unauthorized access to that data.		
SYM-018	edit	53	4.2.21.3 Reading encrypted blocks	"shall be vendor specific" is oxymoronic	"is vendor specific"		
SYM-020	edit	57	4.2.21.7 Saved Information	This section needs to be moved to the end of section 4.21 so that it occurs after concepts such as lock & key instance counter have been defined.	Move section		
SYM-021	edit	58	4.2.21.8 Data encryption parameters	This section needs to be moved to the end of section 4.21 so that it occurs after concepts such as KAD & Nonce have been defined.	Move section		
SYM-022	edit	61	4.2.22 External data encryption control	This section should identify how an application client determines that a physical device has the capability for external data encryption control BEFORE it happens.			
SYM-024	edit	66	4.2.22.5 External data encryption control error conditions	Change reference to ADC-2 for consistency with the rest of the document.	(see ADC-2)		
SYM-025	edit	175	8.5.2.4 Data Encryption capabilities page	I don't believe that this page "requests that information…." Us the same format as for the other pages.	Table 121 specifies the format of the Data Encryption Capabilities page. The page reports information on the set of data encryption algorithms supported by this device server. If external data encryption control is supported, then the set of data encryption algorithms reported by the device server may not include all of the algorithms in the set of data encryption algorithms supported by the physical device.		
SYM-026	edit	176	Table 124	There is a vertical divider missing between UKADF & AKADF	Insert		
SYM-027	edit	178	Table 127	Typo "ecryption"	Correct		
SYM-028	edit	178	Table 128	Show the code in this table using binary notation as per the other two tables on this page.	Correct		
SYM-029	edit	191	Table 142	Show the code in this table using binary notation as per the other two tables on this page.	Correct		
SYM-030	edit	201	8.5.4.1	typo "Pages in used"	Delete "in"		
QTM-rbw-27	E	48	a) the format on the current medium is read-only by the device server;		s/b ...medium is maintained as read-only...		
QTM-rbw-29	E	49	4.2.13.3 - Software write protection for the device server controls write protection for the device server.	(this statement seems circular; better wording?)			

QTM-rbw-30	E	49	4.2.13.3 - The state of each control bit shall be set to its default state after a logical unit reset.	Where is the default state specified?			
QTM-rbw-31	E	50	Table 7 — Commands providing progress indication without changing ready state	Needs (Continued) for split table			
QTM-rbw-33	E	51	When operating in implicit address mode, spacing operations and commands to read and write on		s/b ...read from and write on...		
QTM-rbw-34	E	51	When operating in explicit address mode, commands to read and write on the		s/b ...read from and write on...		
QTM-rbw-35	E	52	A common command containing a BAM bit	Should this be "a generic command"? (two places)			
QTM-rbw-38	E	60	Transition All:F0: This transition shall occur when a power-on, logical unit reset, ot I_T nexus loss		s/b of I_T nexus		
QTM-rbw-39	E	61	TapeAlert flags fall into three categories of default severity (see table 9).	There are six categories shown in table 9.			
QTM-rbw-40	E	61	The event that generated this device information may be retried.		s/b The event that generated this information...		
QTM-rbw-41	E	61	The systme may not		s/b The system...		
QTM-rbw-42	E	61	The condition should be logged and/or the operator informed	(missing period at end)			
QTM-rbw-44	E	62	Table 10 specifies the 64 TapeAlert flags for a sequential-access device. See Annex A for additional information about each TapeAlert flag.I	(trailing I after period)			
QTM-rbw-45	E	62	Severity	The single letters for severity are not defined in the table footer and need to be.			
QTM-rbw-47	E	64	establish an Informational		s/b establish and informational		
QTM-rbw-48	E	64	more TapeAlert flags; and		s/b flags; or		
QTM-rbw-49	E	65	(e.g. polled at a regular interval of 60 seconds).		s/b (e.g.,		
QTM-rbw-50	E	65	a) priot to		s/b prior		
QTM-rbw-51	E	65	that an informational exception has occurred.		s/b ...informational exception condition...		
QTM-rbw-52	E	65	flags appears in the Information sense data descriptor		s/b information sense		
QTM-rbw-53	E	66	not wish to receive a unit attention condition (see 8.2.3)		s/b (see 8.2.3); and		
QTM-rbw-54	E	66	d) establishing a threshold value and a threshold met criteria (tmc) value for each TapeAlert log page parameter with the etc bit set to one		s/b TMC (small caps); ETC (small caps)		
QTM-rbw-55	E	66	de-activation.	de-activation or deactivation? (consistency)			
QTM-rbw-56	E	66	in the Information sense		s/b information sense		
QTM-rbw-57	E	66	the PCR field set to one	(is PCR a field or bit?)			
QTM-rbw-58	E	67	NOTE 7 The device server deactivating TapeAlert flags on any basis other than per I_T nexus, if the TAPLSD bit is set to zero, violates backwards compatibility with previous versions of this standard.		suggest: If the TAPLSD bit is set to zero, then if the device server deactivates TapeAlert flags on any basis other than per I_T nexus violates backwards compatibility with previous versions of this standard.		

QTM-rbw-60	E	67	execution of an autoload operation		s/b b) execution (i.e., format as item b of list)		
QTM-rbw-61	E	67	are not affected by port events		s/b SCSI port events		
QTM-rbw-62	E	67	requiring the application client to maintain at least one previously retrieved TapeAlert Response log page in order to detect differences.		Suggest converting this to an "e.g.," since this is not the only way of accomplishing this (and doesn't place a requirement on the client).		
QTM-rbw-63	E	68	A value of 0h specifies that		s/b 0h indicates that		
QTM-rbw-65	E	68	(Flag 1 = MSB, Byte 1; Flag 64 = LSB, Byte 8).		s/b (i.e., Flag 1 = MSB, byte 1; Flag 64 = LSB, byte 8).		
QTM-rbw-66	E	68	The bits specify all the TapeAlert flags that were set during the previous load, (i.e., the bits are “sticky” for the load).		s/b ...that were set to one during... (and) (i.e., the bits remain set to one for the duration of the load).		
QTM-rbw-67	E	69	A value of 0h specifies		s/b 0h indicates		
QTM-rbw-68	E	69	when a registrants only or all registrants persistent		s/b ...or an all...		
QTM-rbw-69	E	69		Need table footer on first page too.			
QTM-rbw-70	E	70	commands by the devices server.		s/b device server		
QTM-rbw-71	E	71	While in WORM mode, WRITE, WRITE FILEMARKS, ERASE, FORMAT MEDIUM, SET CAPACITY, and MODE SELECT commands		need to expand to WRITE(6), WRITE(16), WRITE FILEMARKS(6)/(16), ERASE(6)/(16).		
QTM-rbw-72	E	71	determine if medium		s/b determine if a medium		
QTM-rbw-74	E	72	or MIXED, but all of the keys		s/b MIXED, and all		
QTM-rbw-75	E	72	encrypted block, shall cause		s/b encrypted block shall cause		
QTM-rbw-76	E	72	DECRYPT or MIXED but the data fails		s/b MIXED and the		
QTM-rbw-77	E	73	A device server that is capable of distinguishing encrypted blocks from unencrypted blocks and has been configured to decrypt the data should perform at least one of the following for each encrypted block that is decrypted:		suggest: For each encrypted block that is decrypted, a device server that is capable of distinguishing encrypted blocks from unencrypted blocks and has been configured to decrypt the data should:		
QTM-rbw-81	E	74	DECRYPTION MODE field is set to RAW		s/b field set to RAW		
QTM-rbw-82	E	74	is set to 10b:		s/b is set to 10b, then:		
QTM-rbw-83	E	75	The physical device also may have limited resources for storage of keys.	(strike this sentence, as it doesn't specify anything).			
QTM-rbw-84	E	75	A device server that supports encryption		s/b ...that supports data encryption...		
QTM-rbw-86	E	75	and the device server experiences a reservation loss	what does it mean for a device server to "experience" a reservation loss?			
QTM-rbw-88	E	76	key), at the physical device		s/b and the physical device		
QTM-rbw-90	E	77	If an I_T nexus data encryption scope is set to PUBLIC it indicates the physical device does not have a saved set of data encryption parameters that were established by that I_T nexus. Device servers that support encryption		s/b An I_T nexus data encryption scope set to PUBLIC indicates that the physical device does not have a saved set of data encryption parameters that were established by that I_T nexus. Device servers that support data encryption		

QTM-rbw-91	E	78	A physical device may have limited resources for storage of sets of data encryption parameters (i.e., it may not have enough resources to store a unique set of data encryption parameters for every I_T nexus that it is capable of managing).	This sentence should be removed since it doesn't specify anything. However, if not removed, then the 'may' should be changed since it is not granting permission to have limited resources.			
QTM-rbw-92	E	78	some values which may be changed		s/b values that may be		
QTM-rbw-93	E	78	d) other vendor-specific data encryption capabilities.	(need to increase font size)			
QTM-rbw-94	E	79	an application client which cause the physical		s/b client that cause		
QTM-rbw-95	E	79	The device server reports its capability with respect to nonce values		s/b The device server reports its nonce value capability in...		
QTM-rbw-96	E	79	additional data which is associated		s/b data that is		
QTM-rbw-98	E	79	but which is not encrypted.		s/b but that is not		
QTM-rbw-99	E	79	It may be authenticated		s/b to what is 'it' referring?		
QTM-rbw-100	E	80	key-associated data to be protected		s/b data to be authenticated		
QTM-rbw-101	E	80	Some encryption algorithms allow or require the use of additional data which is associated		s/b Some data encryption... ...data that is...		
QTM-rbw-102	E	80	If a supported encryption algorithm has been disabled then:		s/b ...has been disabled, then:		
QTM-rbw-105	E	82	if running in unbuffered,		s/b in unbuffered mode,		
QTM-rbw-106	E	82	when the operation will not be	('will' is not an allowed standards term)			
QTM-rbw-107	E	83	encryptionparameters		s/b encryption parameters		
QTM-rbw-108	E	83	4.2.22.3.3 1st sentence	from a entity using	s/b from an entity		
QTM-rbw-109	E	84	shall be set to defaults on: a) a hard reset condition; b) a volume is demounted; c) a data encryption parameters request period timeout (see 4.2.22.3.4); or d) successfully processing		s/b shall be set to defaults: a) on a... b) when a... c) after a... d) after a...		
QTM-rbw-110	E	84	The data encryption parameters period settings shall contain a data encryption parameters period time, a data encryption period timer, and a data encryption parameters period expired indicator.	(make into a lettered list)			
QTM-rbw-112	E	86	such as key wrapping and/or securing the channel used to transmit the key.		s/b (e.g., key wrapping...).		
QTM-rbw-113	E	86	While these public keys are not secret, the device server shall maintain the authorization white list in a way that will prevent an attacker from modifying a public key or even injecting his own (such operations will grant the attacker the ability to send wrapped keys to the device server).		s/b While these public keys are not secret, the device server shall maintain the authorization white list in a way that prevents an attacker from modifying or adding a public key (e.g., such operations may grant the attacker the ability to send wrapped keys to the device server).		
QTM-rbw-114	E	86	A volume contains no encrypted		s/b A volume contains either no encrypted...		

QTM-rbw-116	E	87	CbCS is a credential-based system that manages access to a logical unit or a volume. See SPC-4.		s/b CbCS (see SPC-4) is a credential-based system that manages access to a logical unit or a volume.		
QTM-rbw-117	E	87	shalll		s/b shall		
QTM-rbw-118	E	89	The following command codes	Should command codes be opcodes? (as in table 21). (same comment for 6.1)			
QTM-rbw-120	E	124	Medium removal shall be prohibited.		s/b shall be prevented.		
QTM-rbw-123	E	124	B) an I_T nexus loss; or		s/b B) an I_T nexus loss;		
QTM-rbw-124	E	124	If possible, the device server shall perform an synchronize cache operation before terminating the prevention of medium removal.	remove sentence			
QTM-rbw-125	E	124	with the PREVENT field set to zero		s/b set to 00b		
QTM-rbw-126	E	124	for each the I_T nexuses		s/b for each I_T nexus		
QTM-rbw-127	E	124	function for an initiator port		s/b for a SCSI initiator port		
QTM-rbw-128	E	124	allow removal of the medium by an operator.		s/b removal of the volume by an operator.		
QTM-rbw-129	E	129	if the PEWS field (see 8.3.8) is set to zero.	Global comment: The use of 'zero' and 'one' should be limited to bit values. Field values should have notation such as 00h or 0000h (field size dependent).			
QTM-rbw-130	E	129	the PARTITION NUMBER field shall be set to zero.		s/b 00h		
QTM-rbw-131	E	137	A WRTOK bit	spell out			
QTM-rbw-132	E	137	A DUP bit	spell out			
QTM-rbw-133	E	137	A DEFLT bit	spell out			
QTM-rbw-134	E	137	If the Descriptor Length Valid (DLV)		s/b If the descriptor length valid (DLV)		
QTM-rbw-135	E	139	(MSB)	Remove all MSB and LSB from the primary density codes field, as it has subfields.			
QTM-rbw-137	E	139	shall contain zero.		s/b 00h		
QTM-rbw-138	E	140	any document that specifies a characteristics		s/b that specifies characteristics		
QTM-rbw-140	E	156	The PRODUCT REVISION LEVEL field shall contains the		s/b shall contain the		
QTM-rbw-141	E	156	The OPERATION CODE field and SERVICE ACTION field if applicable contain		s/b The OPERATION CODE field and SERVICE ACTION field, if applicable, contain		
QTM-rbw-142	E	156	If medium was present at the time		s/b If a medium...		
QTM-rbw-144	E	157	Flag Number		s/b flag number		
QTM-rbw-145	E	157	a Log Select command.		s/b a LOG SELECT command.		
QTM-rbw-146	E	157	the REPORT TIMESTAMP parameter		s/b the REPORT TIMESTAMP command parameter		
QTM-rbw-147	E	159	DEVICE SERVERITY		s/b DEVICE SEVERITY		
QTM-rbw-149	E	160	The DEVICE ELEMENT CODE TEXT (DECT) field		s/b The device element code text (DECT) field		
QTM-rbw-150	E	160	in prioritized order..	(remove extra period)			
QTM-rbw-151	E	160	VOLUME SERVERITY		s/b VOLUME SEVERITY		
QTM-rbw-153	E	161	The VOLUME INFORMATION CODE (VIC) field is specified in table 80.		s/b table 83.		
QTM-rbw-154	E	161	specified in table 84..	(remove extra period)			
QTM-rbw-156	E	161	If the volume information descriptor is returned		s/b If a volume...		
QTM-rbw-158	E	163	server may set the rrqst bit to one	(rrqst needs small caps)			

QTM-rbw-160	E	164	recovery requested,		s/b Recovery requested		
QTM-rbw-162	E	165	Table 89 — Recovery procedures	need (Continued) on split table			
QTM-rbw-165	E	165	then the application client shall not issue a load or unload command	Should reword so as to not place requirement on client, but on device server.			
QTM-rbw-166	E	165	Issue UNLOAD command; Instruct		s/b command. Instruct		
QTM-rbw-167	E	168	Table 93 — Sequential-access density codes	need (Continued) on split table			
QTM-rbw-168	E	169	Table 94 — Mode page codes and subpage codes	need (Continued) on split table			
QTM-rbw-169	E	175	A REW bit of one specifies	(combine with previous paragraph)			
QTM-rbw-170	E	184	Table 71 defines the		s/b Table 107		
QTM-rbw-171	E	187	A TapeAlert Prevent LOG SENSE Deactivation (TAPLSD) bit		s/b A TapeAlert prevent LOG SENSE deactivation...		
QTM-rbw-172	E	187	A TapeAlert Respect Page Control (TARPC)		s/b A TapeAlert respect page control...		
QTM-rbw-173	E	188	A TapeAlert Select Exception Reporting (TASER) bit		s/b A TapeAlert select exception reporting...		
QTM-rbw-174	E	188	A TapeAlert Respect Parameter Fields (TARPF)		s/b A Tapealert respect parameter fields...		
QTM-rbw-175	E	188	The Programmable Early Warning Size (PEWS)		s/b The programmable early warning size...		
QTM-rbw-177	E	188	VCELBRE bit is set to zero then		s/b is set to zero, then		
QTM-rbw-178	E	189	If the Write Once Read Many (WORM) bit		s/b the write once read many		
QTM-rbw-180	E	195	UKADF AKADF	needs separator bar			
QTM-rbw-181	E	196	Name	capitalize the name first letter (i.e., No, Software, Hardware, Capable)			
QTM-rbw-183	E	197	Name	same comment as table 125			
QTM-rbw-184	E	197	Table 126	device has no has data encryption	s/b has no data		
QTM-rbw-185	E	197	ecryption		s/b encryption (two places)		
QTM-rbw-186	E	198	Fixed		s/b fixed (two places)		
QTM-rbw-187	E	199	SECURITY ALGORITHM CODE field contains an security algorithm		s/b contains a security algorithm		
QTM-rbw-189	E	208	The SECURITY PROTOCOL	(fix the font on 'The')			
QTM-rbw-190	E	213	deevice		s/b device		
QTM-rbw-191	E	215	RAW; or,		s/b RAW; or		
QTM-rbw-192	E	219	w/o	Is this correct?			

ELX-001	E	2		The list of Physical Interconnects is significantly out-of-date concerning Fibre Channel	The list of Physical Interconnects should includethe following: Fibre Channel Arbitrated Loop 2nd Generation FC-AL-2 [ANSI INCITS 332-1999 R2004] Fibre Channel Arbitrated Loop 2nd Generation Amendment 1 FC-AL-2 AM [ISO/IEC 14165-122:2005]1[ANSI INCITS 332:1999 AM1-2003] Fibre Channel Arbitrated Loop 2nd Generation Amendment 2 FC-AL-2 AM2 [ISO/IEC 14165-122:2005 AM1] [ANSI INCITS 332:1999 AM2-2006] Fibre Channel Framing and Signaling Interface FC-FS [ISO/IEC 14165-251:2008] [ANSI INCITS 373 - 2003] Fibre Channel Framing and Signaling Interface 2nd Generation FC-FS-2 [ANSI INCITS 424 - 2007] Fibre Channel Framing and		
ELX-002	E	2		The list of Transport Protocols does not have current publication numbers for FCP-2 and FCP-3	The list of Transport Protocols should be amended to show these: SCSI-3 Fibre Channel Protocol - 2 FCP-2 [ISO/IEC 14776-222] [ANSI INCITS 350 - 2003 R2008] SCSI-3 Fibre Channel Protocol - 3 FCP-3 [ISO/IEC 14776-223] [ANSI INCITS 416 2006]		
QTM-pas-001	E	2	T10 vice-chair	Lists George	Change to Mark		
QTM-rbw-1	E	3	Revision history	Remove revision history			
QTM-pas-004	E	21	Physical interconnect examples	Lists SPI-2 through -4	Delete and list only SPI-5 ?		
QTM-pas-005	E	21	Physical interconnect, etc. examples	Lists T10 project numbers for approved standards	Change to ANSI standard numbers, or delete as appropriate		
QTM-rbw-2	E	21	List of standards	Add ADT to Transport Protocols			
QTM-rbw-3	E	21	List of standards	Add ADC to command sets			
QTM-pas-006	E	22	2.1	Title "Normative references" is the same as for 2, immediately above	Change to "Normative references overview"		
QTM-pas-007	E	23	2.2 Approved references	Need ref. for ISO/IEC 18033-2 (used in 8.5.3.2.4.3)	ISO/IEC 18033-2		
QTM-pas-008	E	23	2.2 Approved references	Need reference for ANSI X9.63 (used in 8.5.2.10.3)	ANSI X9.63:2001, *Public Key Cryptography for the Financial Services Industry - Key Agreement and Key Transport Using Elliptic Curve Cryptography*		

QTM-pas-009	E	23	2.2 Approved references	Need ref. for PKCS #1 V2.1 (used in 8.5.2.10.2)	IETF RFC 2437, *Public-Key Cryptography Standards (PKCS) #1: RSA Cryptography Specifications Version 2.1* , February 2003		
QTM-pas-010	E	23	2.4 NIST references	Need ref. for FIPS 140-2 (used in 8.5.3.2.4.3)	FIPS 140-2 *Security Requirements for Cryptographic Modules* , July 10, 2001		
QTM-pas-011	E	23	2.4 NIST references	Need ref. for FIPS 186-2 (used in 8.5.3.2.4.3)	FIPS 186-2 *Digital Signature Standard (DSS*), January 27, 2000		
QTM-rbw-4	E	23	List of standards	Add ADC-2 to approved references			
QTM-rbw-5	E	23	List of standards	Add ADC-3 to references under development			
QTM-rbw-6	E	24	3.1.13 data encryption parameters: A set of parameters accessible through the Set Data Encryption page (see8.5.3.2) that controls the data encryption and decryption process		s/b ...processes		
QTM-rbw-7	E	25	3.1.18 end-of-data (EOD): A recorded indication that no valid logical objects are recorded between this position and end-of-partition.		s/b ...end-of-partition (see 3.1.20).		
QTM-rbw-8	E	25	3.1.22 explicit address command set: The command set in which read		s/b ...which reads		
QTM-rbw-9	E	25	3.1.30 implicit address command set: The command set in which read		s/b ...which reads		
QTM-pas-012	E	27	3.1.61	Typo: synonmous	synonymous		
QTM-rbw-10	E	27	3.1.59 SCSI initiator device: A SCSI device containing application clients and SCSI initiator ports that originates device service and task management requests to be process		s/b ...to be processed		
QTM-rbw-11	E	28	3.1.76 thread	device may beginning positioning	s/b begin		
QTM-pas-013	E	28	3.1.75	Typo: A device server cpapbility	A device server capability		
QTM-rbw-12	E	28	3.1.75 TapeAlert: A device server cpapbility		s/b capability		
QTM-pas-014	E	28	3.1.x	Per Editors Note 3, need a definition of authorization white list.	authorization white list: A set of identifiers (typically public keys) for entities which are authorized to perform some operation.		
QTM-rbw-13	E	28	is being engaged for positioning on a suitable transport mechanism (e.g., spooled on to a take up reel, wrappedaround the surface of a helical scan drum). After threading is complete the tape device may beginning positioning the medium to an initial position.		s/b ...take-up reel; wrapped... , s/b ...may begin...		
QTM-rbw-14	E	28	3.1.82 unthread: A part of the unloading process in which the recording medium is being disengaged from the suitable transport mechanism (e.g., de-spooled from a take up reel,		s/b ...take-up reel;		

QTM-rbw-16	E	30	3.4 - uppercase letter may be used		s/b ...letters...		
QTM-pas-015	E	37	Fig. 8	Two boxes are titled "Device Serve"	"Device Server"		
QTM-pas-016	E	37	Fig. 8	Box is titled "Physical Devic"	"Physical Device"		
QTM-rbw-18	E	37	Device Serve		s/b Device Server (three of these)		
QTM-pas-017	E	38	Table 2	Ref. for TapeAlert Flags is "table 10"	Capitalize: "Table 10"		
QTM-rbw-19	E	38	figure 8..		s/b figure 8.		
QTM-pas-018	E	39	4.2.5, 2nd para	While "PEWZ" is expanded in the definitions, it would be nice to have it here as well.	Change "PEWZ" to "programmable-early-warning zone (PEWZ)"		
QTM-pas-019	E	39	4.2.5, 3rd para	Check condition looks like it's part of the ASC: "the device server does not report PROGRAMMABLE EARLY WARNING DETECTED CHECK CONDITION." Also, "does not" is not proper standardese.	"the device server shall not report CHECK CONDITION status with the additional sense code set to PROGRAMMABLE EARLY WARNING DETECTED."		
QTM-pas-020	E	40	1st para, last sentence	"additional sense" is not used without "code"	"additional sense was not reported" s/b "additional sense code was not reported"		
QTM-rbw-20	E	40	4.2.6 - Partitions consist of one or more non-overlapped logical volumes, \each with its own beginning and ending points, contained within single physical volume.		s/b ...within a single...		
QTM-rbw-21	E	42	4.2.7.2 - The READ POSITION command	Global comment - one convention is to provide a reference for the first use of a command within a sub-clause (e.g., READ POSITION command (see 7.6), or WRITE BUFFER command (see SPC-4)). Throughout this standard it appears to be inconsistent when this convention is used, so suggest adding first usage references throughout.			
QTM-rbw-22	E	45	Table 3 defines the streams commands		s/b ...the stream commands...		
QTM-rbw-23	E	47	1st para after Table 5	Suggest making this citation of the FIXED bit a footnote within table 5 instead of a new paragraph.			
QTM-rbw-24	E	47	if buffered mode 1h is selected, the error shall	Global comment: Suggest using the convention of "if <something>, then <something>" throughout instead of "if <something>, <something> as it appears here. The "then" helps set apart the action to take and make text consistent. (There are several instances throughout the standard missing the "then", so this comment will be the only mention of it).			
QTM-rbw-25	E	47	4.2.13.1 - Write protection of the medium prevents the alteration of logical objects on the medium and any change		s/b ...medium, and any change...		

QTM-rbw-26	E	48	If more than one condition exists, the device server shall either report the applicable condition in order of HARDWARE WRITE PROTECTED, PERMANENT WRITE PROTECT, PERSISTENT WRITE PROTECT,ASSOCIATED WRITE PROTECT, and LOGICAL UNIT SOFTWARE WRITE PROTECTED, or report the generic additional sense code of WRITE PROTECTED.	Make this a numbered list.			
QTM-rbw-32	E	51	f) an application client shall specify a Command Reference Number (see SAM-3) for each command in a tagged write sequence.	Would suggest rewording in terms of the device server to avoid placing requirement on application client (e.g., device shall expect and check a CRN...)			
QTM-rbw-37	E	55	f) an explicit command is enabled and the medium position is not at BOx. In this case the device server shall	This doesn't seem like normal lettered list formatting, as it doesn't read like a single, semi-colon delimited sentence. The "In this case" statements break the pattern. (several)			
QTM-pas-021	E	60	Transition All:F0	Typo: reset, ot I_T nexus	reset, or I_T nexus		
QTM-pas-022	E	61	Table 9, value 0Bh definition	Typo: systme	system		
QTM-pas-023	E	65	4.2.17.2.2 second lettered list, a)	Typo: priot	prior		
QTM-pas-024	E	68	1st paragraph, 2nd sentence	Typo: TapeAert	TapeAlert		
QTM-rbw-64	E	68	The use of specific vendor identification other than the one associated with the device is allowed.		s/b A vendor identification other than the one associated with the device may be used.		
QTM-pas-025	E	75	Last lettered list on page, a)	Typo: data encryption parameter;	data encryption parameters;		
QTM-pas-026	E	75	Editors Note 1	I disagree that data encryption parameter is ambiguous. It's in the definitions (3.1.13), where it refers to 4.2.21.8, where all the elements are listed.	Delete editors note 1		
QTM-rbw-87	E	76		The first three pairs of lettered lists on this page should be numbered lists (i.e., release the resources before establishing)			
QTM-pas-027	E	80	4.2.22: Entire clause	The word "external" in "external data encryption control" is similar to the Encryption Mode setting "EXTERNAL." Should a different word than "external" be used?	"alternate" ?		
QTM-pas-028	E	80	4.2.22.2.1. 2nd para	Pluralize: "for all I_T nexus that have"	"for all I_T nexuses that have"		
QTM-pas-029	E	80	4.2.22.2.2, second lettered list a) B)	A) and B) should use the same words for the disabled algorithm	"B) report the encryption algorithm in" s/b "B) report the disabled data encryption algorithm in"		
QTM-pas-030	E	81	4.2.22.3.2, 2nd para, 1st sentence	"data encryption parameters for encryption parameters request policy" is the wrong name for the policy	s/b "data encryption parameters for encryption request policy"		
QTM-pas-031	E	82	1st sentence on page	Just call these policies, not policy settings: "...data encryption parameters for encryption request policies setting are specified in…"	"...data encryption parameters for encryption request policies are specified in..."		
QTM-pas-032	E	82	Table 15 footnotes	Note designator should not be in format "a)"	s/b superscript a		

QTM-pas-033	E	83	1st sentence on page	Just call these policies, not policy settings: "...data encryption parameters for decryption request policies setting are specified in…"	"...data encryption parameters for decryption request policies are specified in..."		
QTM-pas-034	E	83	Table 16, last row, description	Typo: encryptionparameters	encryption parameters		
QTM-pas-035	E	83	Table 17, following	Do we need a statement "The physical device shall not change the logical position while the data encryption parameters for encryption request indicator is set to TRUE." ?	Add statement		
QTM-pas-036	E	84	4.2.22.3.4, 1st lettered list	Tense disagreement: b) track how long the physical device has waited for a set of data encryption parameters after a data encryption parameters request indicator is set to TRUE;	b) track how long the physical device has waited for a set of data encryption parameters after a data encryption parameters request indicator has been set to TRUE;		
QTM-pas-037	E	84	4.2.22.3.4, para after 1st lettered list	"data encryption parameters period time" is more clear as a timeout value	"data encryption parameters timeout value"		
QTM-pas-038	E	84	4.2.22.3.4, 2nd para after 1st lettered list	"data encryption parameters period time" is more clear as a timeout value	"data encryption parameters timeout value"		
QTM-pas-040	E	85	Lettered list after Table 19	"indicator" missing from "a) data encryption period timer expired shall"	s/b "a)data encryption period timer expired indicator shall"		
QTM-pas-041	E	85	Lettered list after Table 19	Redundant "with" in: "...CHECK CONDITION status, with the sense key..."	"...CHECK CONDITION status, the sense key..."		
QTM-pas-042	E	86	4.2.23.1, 1st para, 2nd sentence	"Key disclosure may be mitigated by…" sounds like disclosure is assumed.	"The possibility of key disclosure may be mitigated by…"		
QTM-pas-043	E	86	4.2.23.2, 1st para, 1st sentence	Need acronym" "Security associations (see SPC-4)…"	"Security associations (SAs, see SPC-4)…"		
QTM-pas-044	E	86	4.2.23.3, 1st para, last sentence	"...that owns the private portion of this public key..." is not correct.	"...that knows the private key corresponding to this public key…"		
QTM-pas-045	E	86	4.2.23.3, 3rd para, last sentence	Incorrect tense in: "...(such operations will grant the attacker…"	"...(such operations would grant the attacker…"		
QTM-pas-046	E	86	4.2.24, last para on page	VCED_C is not in the referenced page	s/b VCELB_C		
QTM-pas-047	E	86	4.2.24, last para on page	VCEDRE is not in the referenced page	s/b VCELBRE		
QTM-pas-048	E	87	a) in lettered list	VCEDRE is not in the referenced page	s/b VCELBRE		
QTM-pas-049	E	87	b) in lettered list	vced bit is not in the referenced page	s/b VCELB		
QTM-rbw-115	E	87	The logical position following the completion of a self-test is not specified by this standard. See SPC-4.		s/b The logical position following the completion of a self-test (see SPC-4) is not specified by this standard.		
QTM-pas-050	E	92	Table 22, value 01b definition	Typo: procesiing	processing		
QTM-pas-051	E	99	3rd para after Table 26	Typo: tansfers	transfers		
QTM-rbw-136	E	139		Add MSB and LSB to the last three fields in table 57, since they do not have subfields.			
QTM-pas-052	E	148	4th para after Table 65	Typo: TapeALert	TapeAlert		
QTM-pas-053	E	150	Table 67, last row, description	Type: specifc	specific		
QTM-pas-054	E	158	Last para on page	Typo: specfic	specific		
QTM-pas-055	E	160	Last para on page	Typo: exsits	exists		
QTM-pas-056	E	162	Table 85, last row	Typo: Reqested	Requested		
QTM-pas-057	E	164	3rd para after Table 87	Typo: reovery procedures	recovery procedures		
QTM-pas-058	E	165	Table 88, value 09h description	Typo: No reovery	No recovery		
QTM-rbw-163	E	165	a volume. contact		s/b volume. Contact		

QTM-pas-059	E	176	Last para on page	Typo: comprimised	compromised		
QTM-pas-060	E	177	Table 100, code 01b description	Typo: comprimised	compromised		
QTM-pas-061	E	177	Note 63	Typo: comprimised	compromised		
QTM-pas-062	E	188	Para before Table 112	Spell out zero and one for bit fields	"... the LONG bit set to 0" s/b "... the LONG bit set to zero"		
QTM-pas-063	E	188	Last para on page	Repeated: bit is set set to one	bit is set to one		
QTM-rbw-176	E	188	(VCELBRE) bit is set set to		s/b is set to		
QTM-rbw-182	E	196	has no has data decryption		s/b has no data		
QTM-pas-064	E	197	Table 127, code 01b description	Typo: The ecryption	The encryption		
QTM-pas-065	E	197	Table 127, code 10b description	Typo: The ecryption	The encryption		
QTM-pas-066	E	213	Next-to-last para on page	Typo: the deevice server	the device server		
QTM-pas-067	E	223	8.5.4.11 only paragraph	Typo: identifer	identifier		
HPQ-1		1	Title Page	At 2.32 in. down and 0.77 in. from left Set PDF page numbers to match printed page numbers			
HPQ-2		1	Title Page	At 9.87 in. down and 6.32 in. from left Global ANSI INCITS.***:200x s/b ANSI INCITS xxx-200x (space and dash instead of periods)			
HPQ-3		2	Points of Contact page	At 1.92 in. down and 3.95 in. from left George O. Penokie s/b Mark S. Evans with appropriate contact info			
HPQ-4		3	Changes	At 1.14 in. down and 0.95 in. from left Global Header and footer should use same font as rest of text.			
HPQ-5		3	Changes	At 1.61 in. down and 0.42 in. from left Global: use 0.9" margin on left and right			
HPQ-6		6	Abstract	At 6.12 in. down and 7.26 in. from left StrikeOut: stream			
HPQ-7		6	Abstract	At 6.29 in. down and 4.77 in. from left StrikeOut: stream			
HPQ-8		13	LIst of Tables	At 1.72 in. down and 0.61 in. from left Add PDF bookmarks for Tables and Figures			

HPQ-9		13	LIst of Tables	At 9.42 in. down and 0.50 in. from left many field names should be small caps in the table of tables, including: 40, 43, 92, 100, 101, 107, 109, 110, 112, 129, 133,			
HPQ-10		18	Foreword	At 2.50 in. down and 0.69 in. from left DEVICE TYPE field of the INQUIRY command response data. s/b PERIPHERAL DEVICE TYPE field of the Standard INQUIRY data (see SPC-4).			
HPQ-11		18	Foreword	At 2.51 in. down and 4.34 in. from left StrikeOut: This device type is known as a stream device.			
HPQ-12		18	Foreword	At 2.67 in. down and 2.02 in. from left SCSI Architecture Model - 3 (T10/1561-D) s/b SAM-4			
HPQ-13		18	Foreword	At 8.67 in. down and 1.23 in. from left Technical Committee T10 on Lower Level Interfaces s/b Technical Committee T10 - SCSI Storage Interfaces			
HPQ-14		19	Introduction	At 2.73 in. down and 3.35 in. from left definitions, symbols, and abbreviations s/b definitions, acronyms, keywords, and conventions			
HPQ-15		20	1 Scope	At 3.43 in. down and 0.44 in. from left StrikeOut: member of the SCSI stream device class			
HPQ-16		20	1 Scope	At 3.59 in. down and 1.56 in. from left the SCSI Primary Commands - 3 standard s/b SPC-4			
HPQ-17		20	1 Scope	At 3.76 in. down and 2.33 in. from left StrikeOut: member of the SCSI stream device class			

HPQ-18		20	1 Scope	At 4.59 in. down and 4.59 in. from left device type s/b smallcaps			
HPQ-19		20	1 Scope	At 4.75 in. down and 0.95 in. from left the INQUIRY command response data s/b the standard INQUIRY data (see SPC-3)			
HPQ-20		21	1 Scope	At 1.65 in. down and 0.95 in. from left StrikeOut: Delete this list: At the time this standard was generated, examples of the SCSI general structure included: ...			
HPQ-21		23	2.2	At 2.04 in. down and 0.95 in. from left StrikeOut: ISO/IEC 14776-411, SCSI-3 Architecture Model standard			
HPQ-22		23	2.2	At 2.20 in. down and 0.95 in. from left StrikeOut: ISO/IEC 14776-313, SCSI Primary Commands - 3 standard			
HPQ-23		23	2.2	At 2.26 in. down and 0.43 in. from left Add SPC-2 since the ONLY IF RESERVED (OIR) bit definition refers to it			
HPQ-24		23	2.2	At 2.61 in. down and 0.50 in. from left Add: ISO/IEC 18033-2 used in pg 219			
HPQ-25		23	2.3	At 4.14 in. down and 0.95 in. from left ISO/IEC 14776-xxx the xxx numbers are known: SAM-4 is 414 SPC-4 is 454			
HPQ-26		23	2.3	At 4.14 in. down and 3.36 in. from left Model - 4 s/b Model - 4 (SAM-4)			
HPQ-27		23	2.3	At 4.31 in. down and 3.10 in. from left Commands - 4 s/b Commands - 4 (SPC-4)			

HPQ-28		23	2.4	At 6.02 in. down and 0.71 in. from left Add: NIST SP800-56A□ which is used in: Table 152 - ECIES-HC requirements and parameters for ECIES-KEM			
HPQ-29		23	2.4	At 6.35 in. down and 0.70 in. from left Add: FIPS 140-2 FIPS 856-2 which are referred to in 8.5.3.2.4.3 Key wrapping with ECC 521			
HPQ-30		24	3.1.4	At 3.77 in. down and 0.44 in. from left StrikeOut: 3.1.4 BOx: Either beginning-of-medium (see 3.1.5) or beginning-of-partition (see 3.1.6).			
HPQ-31		24	3.1.5	At 4.25 in. down and 5.45 in. from left beginning-of-partition s/b BOP (see 3.1.6)			
HPQ-32		24	3.1.6	At 4.75 in. down and 3.32 in. from left beginning-of-medium s/b BOM (see 3.1.5)			
HPQ-33		24	3.1	At 5.07 in. down and 0.18 in. from left Global: use the BOM, BOP, EOM, EOP, and EW acronyms almost everywhere. Only spell them out the first time they are used in the text.			
HPQ-34		25	3.1.18	At 1.81 in. down and 1.22 in. from left end-of-partition s/b EOP (see 3.1.20)			
HPQ-35		25	3.1.19	At 2.31 in. down and 5.39 in. from left a s/b an			
HPQ-36		27	3.1.72	It would be helpful if references such as the (see 4.2.10) in this definition could be linked to the referenced section so you can follow them in the PDF with a click.			
HPQ-37		28	3.1.85	At 8.38 in. down and 4.85 in. from left In 3.1.85 volume, add "See 4.2.2."			

HPQ-38		28	3.1.85	At 8.39 in. down and 0.26 in. from left SPC-4 refers to SSC for its definition of "volume".□One reference is: "The VOLUME NUMBER field specifies a volume (see SSC-2) within the medium auxiliary memory. The number of volumes of the medium auxiliary memory shall equal that of the attached medium. If the medium only has a single volume, then its volume number shall be zero." This doesn't seem to match the SSC definition. Either SPC-4 or SSC-3 should change.			
HPQ-39		28	3.2	It would be helpful if locations in the document that use these acronyms could be linked to their definition in this table so that the reader can select the acryonym in the text to get to the definition quickly.			
HPQ-40		29	3.2	At 2.41 in. down and 4.82 in. from left After each acronym that is a term defined in 3.1.xx, add (see 3.1.xx) BOM BOP EOD EOM EOP EW			
HPQ-41		29	3.2	At 5.81 in. down and 0.35 in. from left Add PEWZ programmable early warning zone			
HPQ-42		29	3.2	At 6.41 in. down and 0.34 in. from left Global: change SAM-3 to SAM-4			
HPQ-43		29	3.2	At 6.48 in. down and 0.95 in. from left StrikeOut: SBCSCSI-3 Block Commands			
HPQ-44		29	3.2	At 6.98 in. down and 0.95 in. from left StrikeOut: SCSI-3Small Computer System Interface - 3			
HPQ-45			3.4 Table 1	I think the American example for "1 323 462.95" should be "1,323,462.95"			

HPQ-46		33	4.1	At 2.95 in. down and 0.95 in. from left StrikeOut: The SCSI stream device class specifies the behavior of a logical unit that is primarily a streaming data device. Two device types are members of this class: sequential-access and printer devices. This standard addresses the sequential-access device type only.			
HPQ-47		33	4.1	At 3.45 in. down and 0.95 in. from left StrikeOut: (see SBC-2 for a description of a random-access device).			
HPQ-48		33	4.2	At 7.35 in. down and 0.69 in. from left Add a section 4.2.x Removable media Include these points: - the RMB bit is set to one in Standard INQUIRY data (see SPC-4) - a unit attention condition is established whenever the media changes (e.g. with an additional sense code set to NOT READY TO READY CHANGE, MEDIUM MAY HAVE CHANGED) - the LOAD UNLOAD command (see 7.2) is used to add or remove the medium			
HPQ-49		34	4.2.2	At 1.81 in. down and 0.45 in. from left Beginning-of-medium s/b BOM			
HPQ-50		34	4.2.2	At 1.81 in. down and 5.70 in. from left End-of-medium s/b EOM			
HPQ-51		34	4.2.2	At 2.98 in. down and 0.45 in. from left Mounted is the state of a volume when s/b A volume is defined as mounted when			
HPQ-52		34	4.2.2	At 3.14 in. down and 2.47 in. from left is demounted s/b is defined as demounted			

HPQ-53		34	4.2.2	At 3.64 in. down and 0.45 in. from left Ready is the state of the logical unit s/b A logical unit is defined as ready			
HPQ-54		34	4.2.2	At 3.81 in. down and 0.45 in. from left The logical unit is not ready s/b A logical unit is defined as not ready			
HPQ-55		34	4.2.2	At 4.14 in. down and 3.56 in. from left not mounted s/b demounted			
HPQ-56		34	4.2.2	At 4.14 in. down and 4.58 in. from left not mounted s/b demounted			
HPQ-57		34	4.2.2	At 4.81 in. down and 4.93 in. from left beginning-of-medium s/b BOM			
HPQ-58		34	4.2.2	At 4.98 in. down and 0.45 in. from left end-of-medium position s/b EOM			
HPQ-59		35	4.2.2	At 4.57 in. down and 0.95 in. from left beginning-of-medium s/b BOM			
HPQ-60		35	4.2.2	At 4.57 in. down and 2.82 in. from left end-of-medium s/b EOM			
HPQ-61		35	4.2.2	First paragraph last sentence is difficult to understand. There is a phrase "course of tracks" which is not used anywhere else.	Recommend: "The number of tracks written at one time is called a track group (TrkGrp). --The tape motion while writting a TrkGrp is called the course of tracks.--- Track groups may be used by any recording format. For recorded volumes, reading in the forward direction follows the same course of tracks -- that was used--when writing.		
HPQ-62		35	4.2.2	At 5.24 in. down and 6.66 in. from left end-of-medium s/b EOM			
HPQ-63		35	4.2.2	At 5.40 in. down and 0.95 in. from left beginning-of-medium s/b BOM			

HPQ-64		36	4.2.3	Pysical device introductory paragraph: "A physical device performs operations upon the medium" -- this wording implies that the physical device only performs operations but the physical device also contains modifiable settings that are shared between multiple device servers.	Recommend: "TA sequential-access device contains one or more physical devices. A physical device provides storage for values that are shared between multiple device servers and performs operations upon the medium"		
HPQ-65		37	4.2.3 figure 8	Both top boxes Device Serve s/b Device Server			
HPQ-66		37	4.2.3 figure 8	Under the top right box for the ADC device server The ADC device server is optional for SSC devices so the relationship should be 1 to 0..1 instead of 1 to 1.			
HPQ-67		37	4.2.3	At 4.52 in. down and 2.95 in. from left Physical Devic s/b Physical Device			
HPQ-68		38	4.2.3 figure 8	At 1.64 in. down and 4.43 in. from left in figure 8.. delete extra .			
HPQ-69		38	4.2.3 Table 2	At 7.60 in. down and 6.23 in. from left After "table 10" add "in 4.2.17.1 "			
HPQ-70		39	4.2.5	First paragraph in the section - ". . . enough space in the partition for the application client to write any buffered logical object in the application client buffer to the medium." - What is the application client buffer? Is that different from the object buffer? If so then a definition is needed.			
HPQ-71		40	4.2.6	At 4.48 in. down and 5.63 in. from left beginning-of-medium s/b BOM			
HPQ-72		40	4.2.6	At 4.64 in. down and 0.45 in. from left end-of-partition zero (EOP 0) s/b EOP 0			
HPQ-73		40	4.2.6	At 4.64 in. down and 3.92 in. from left end-of-medium s/b EOM			
HPQ-74		40	4.2.6	At 4.81 in. down and 4.67 in. from left beginning-of-partition s/b BOP			

HPQ-75		40	4.2.6	At 5.31 in. down and 5.28 in. from left beginning-of-partition s/b BOP			
HPQ-76		41	4.2.6	At 4.32 in. down and 0.95 in. from left beginning and ending points for a partition aligned with physical bounds of the medium s/b BOP and EOP aligned with BOM and EOM.			
HPQ-77		41	4.2.6	At 4.32 in. down and 2.20 in. from left a mandatory requirement s/b required			
HPQ-78		44	4.2.11	At 5.98 in. down and 3.80 in. from left end-of-partition s/b EOP			
HPQ-79		45	4.2.12.2	At 1.98 in. down and 2.15 in. from left streams s/b stream (to match the term used in SPC-4)			
HPQ-80		45	4.2.12.3	At 6.93 in. down and 3.20 in. from left generated s/b established			
HPQ-81		46	4.2.12.3 Table 4	At 4.73 in. down and 0.23 in. from left The information sense data descriptor needs to end with byte 11 not byte 10.			
HPQ-82		46	4.2.12.4	At 6.59 in. down and 1.20 in. from left following conditions s/b conditions listed in table 5			
HPQ-83		46	4.2.12.4	At 6.92 in. down and 0.45 in. from left the device server shall return CHECK CONDITION status. The appropriate sense key and additional sense code should be set. s/b the command shall be terminated with CHECK CONDITION status with the sense key set to the specified value and the additional sense code set to the appropriate value for the condition.			

HPQ-84		46	4.2.12.4	At 6.92 in. down and 3.53 in. from left illustrates s/b lists			
HPQ-85		46	4.2.12.4	At 7.09 in. down and 2.26 in. from left exhaustive enumeration s/b complete list			
HPQ-86		46	4.2.12.4 Table 5	At 7.99 in. down and 0.53 in. from left Keep table 5 on one page			
HPQ-87		48	4.2.13.1	At 5.15 in. down and 4.72 in. from left StrikeOut: MODE SELECT command with the			
HPQ-88		48	4.2.13.2	List of other conditions that may cause a DATA PROTECT sense key should add encryption errors	May add a new item d) for "the set of data encryption parameters in the physical device is not correct for the operation requested."		
HPQ-89		49	4.2.13.6	Third sentence - "The state of permanent write protection shall be recorded with the volume and the persistent write protection shall only affect the application client accessible medium."	The word "persistent" 2/3 through the sentence should be "permanent"		
HPQ-90		50	4.2.14 Note 1	At 7.54 in. down and 0.29 in. from left (Global) Add a - after the NOTE numbers			
HPQ-91		51	4.2.15.2 item e)	At 4.93 in. down and 1.45 in. from left an s/b the			
HPQ-92		51	4.2.15.2	At 4.94 in. down and 7.95 in. from left StrikeOut:			
HPQ-93		51	4.2.15.2 item f)	At 5.27 in. down and 1.45 in. from left an s/b the			
HPQ-94		52	4.2.16.2	When a reference is given such as the (see 4.2.10) in the middle paragraph in this section, it would be good to actually have a definition of the term in the referenced section rather than requiring following another reference to section 3.1.72 from 4.2.10 to find the definition.			

HPQ-95		61	4.2.17.1 Table 9	At 7.90 in. down and 0.83 in. from left (Global) In tables with more than 3 columns with rows labeled Reserved or Obsolete, join the rightmost columns together. This avoids leaving a blank cell or putting a "-" in the cell. Table 19h's last row would be: All others | Reserved			
HPQ-96		62	4.2.17.1 Table 10	At 2.79 in. down and 4.07 in. from left Table 10 needs a footnote describing the abbreviations for the severity column.			
HPQ-97		62	4.2.17.1 Table 10	At 9.97 in. down and 6.46 in. from left Straddle cells in the footing			
HPQ-98		66	4.2.17.2.4 item d)	At 2.48 in. down and 2.14 in. from left etc s/b smallcaps			
HPQ-99		66	4.2.17.2.4	At 3.43 in. down and 5.30 in. from left unit attention s/b unit attention condition			
HPQ-100		66	4.2.17.2.4	At 4.43 in. down and 4.92 in. from left generates s/b establishes			
HPQ-101		67	4.2.17.4	At 8.33 in. down and 0.38 in. from left The last paragraph of 4.2.17.4 should be b)			
HPQ-102		69	4.2.19 Note 10	At 5.07 in. down and 3.09 in. from left streaming device types s/b the sequential-access device type			
HPQ-103		70	4.2.20.1	At 9.36 in. down and 5.05 in. from left StrikeOut: s at end of sentence (devices server)			
HPQ-104		70	4.2.20.2	At 10.02 in. down and 0.45 in. from left What exactly is an archive tape? Should there be a definition in 3.1?			
HPQ-105		71	4.2.20.3	At 3.81 in. down and 5.14 in. from left Third paragraph first sentence if THE medium ?			
HPQ-106		numerous	4.2.21.n, 8.5.n	4.2.2.2 sentence 2 defines encryption control as being on an I_T_L nexus basis, but most references after this use I_T nexus	Change references to I_T_L Nexus for Encryption control as already marked in red in 4a draft.		

HPQ-107		71	4.2.21.1	Most encryption processing has been moved from the device server to the physical device but not all references to capabilities in the device server were updated. Several comments to follow will point out areas where device server should be changed to physical device. Those comments will all start with "Device Server -> Physical Device" to help identify them as all part of the same change. First paragraph second to last sentence - "encryption and decryption processes within the device server" - those processes were moved to the physical device	Change "device server" to "physical device"		
HPQ-108		72	4.2.21.3	Device Server -> Physical Device Second paragraph - "A device server that supports encryption should be capable of distinguishing encrypted . . ." Detection of blocks will occur in the physical device not the device server.	Change "device server" to "physical device"		
HPQ-109		72	4.2.21.3	Device Server -> Physical Device Second paragraph second sentence - "The device server reports it's capability of distinguishing encrypted blocks"	Should be "The device server reports that capability of the physical device for distinguishing encrypted blocks"		
HPQ-110		72	4.2.21.3	Device Server -> Physical Device Second paragraph third sentence "If the device server is capable of distinguishing"	Should be "If the physical device is capable of distinguishing"		
HPQ-111		72	4.2.21.3	Device Server -> Physical Device Second paragraph last sentence "The device server shall establish the logical position"	Should be "The physical device shall establish . . ."		
HPQ-112		72	4.2.21.3	At 6.78 in. down and 1.20 in. from left Note 11 not sure this is correct; it may attempt to decrypt data but it will not actually manage it. Better to say something like ".. to run the decryption process on data that was not encrypted"			
HPQ-113		72	4.2.21.3	Device Server -> Physical Device Note 11 "It is possible for a device server that is not capable of distinguishing"	Should be "It is possible for a physical device that is not . . ."		
HPQ-114		72	4.2.21.3	Device Server -> Physical Device Third paragraph first sentence "A device server that supports encryption"	Should be "A physical device that supports encryption"		
HPQ-115		72	4.2.21.3	Device Server -> Physical Device Third paragraph fourth sentence "If the device server is capable of determining that the encryption key is correct"	Should be "If the physical device is capable . . . "		
HPQ-116		72	4.2.21.3	Device Server -> Physical Device Third paragraph last sentence "The device server shall establish the logical position"	Should be "The physical device shall establish . . ."		

HPQ-117		72	4.2.21.3	Device Server -> Physical Device Fourth paragraph first sentence "A device server that supports encryption"	Should be "A physical device that supports encryption"		
HPQ-118		72	4.2.21.3	Device Server -> Physical Device Fourth paragraph second sentence "If the device server is capable of validating the integrity of the data"	Should be "If the physical device is capable . . . "		
HPQ-119		72	4.2.21.3	Device Server -> Physical Device Fourth paragraph last sentence "The device server shall establish the logical position"	Should be "The physical device shall establish . . ."		
HPQ-120		72	4.2.21.3	Device Server -> Physical Device Fifth paragraph first sentence "A device server that is capable of distinguishing encrypted blocks"	Should be "A physical device that is capable . . ."		
HPQ-121		72	4.2.21.3	Device Server -> Physical Device Sixth paragraph first sentence "A device server that is capable of both determining if the encryption key or"	Should be "A physical device that is capable . . ."		
HPQ-122		73	4.2.21.4	At 5.64 in. down and 1.77 in. from left SPECIFC s/b SPECIFIC			
HPQ-123		73	4.2.21.4	At 5.64 in. down and 5.20 in. from left DECRYPT field or ENCRYPT field s/b DECRYPTION MODE field or ENCRYPTION MODE field using smallcaps			
HPQ-124		73	4.2.21.4	At 5.98 in. down and 4.35 in. from left DECRYPTION If this is reported because the ENCRYPT field (should be ENCRYPTION MODE field) is set incorrectly, this name does not make sense. Add an additional sense code with ENCRYPTION in the name or delete the ENCRYPT field from the discussion.			
HPQ-125		74	4.2.21.5	At 1.65 in. down and 6.34 in. from left StrikeOut: is			
HPQ-126		74	4.2.21.5	At 2.48 in. down and 2.13 in. from left ENCRYPTION MODE s/b small caps			
HPQ-127		74	4.2.21.5	At 4.14 in. down and 2.84 in. from left ALGORITHM INDEX s/b smallcaps			

HPQ-128		74	4.2.21.5	Device Server -> Physical Device Fourth paragraph on the page "If the encryption algorithm provides this capability, the device server may support a feature to check during read and verify operations"	Should be "If the encryption algorithm provides this capability, the physical device may . . . "		
HPQ-129		74	4.2.21.5	Device Server -> Physical Device First lettered list on page - 1) "the device server shall verify that each encrypted block that is processed for read and verify. . . "	Should be "the physical device shall verify . . ."		
HPQ-130		74	4.2.21.5	Device Server -> Physical Device Second lettered list on page - 1) "the device server shall verify that each encrypted block that is processed"	Should be "the physical device shall verify . . ."		
HPQ-131		74	4.2.21.5	Device Server -> Physical Device Third lettered list on page - 1) "the device server shall check the format specific indication that disables . . . "	Should be "the physical device shall check . . ."		
HPQ-132		75	Editors Note 1	I don't see the ambiguity in "data encryption parameter"	Data encryption Parameters are already specified in 4.2.21.8.		
HPQ-133		76	4.2.21.6	At 2.98 in. down and 0.95 in. from left It would be clearer if the phrase "registered for encryption unit attentions state" (and where else it's referenced) was clearly marked out as a variable. Not sure of the right format - caps, bold, etc - but it would make it easier to read.			
HPQ-134		76	4.2.21.6	Paragraph following first a/b list last sentence at the physical device shall	Should be: "and the physical device shall"		
HPQ-135		77	4.2.21.7 item c)	At 1.81 in. down and 1.98 in. from left after NEXUS add a period			
HPQ-136		77	4.2.21.7	At 5.81 in. down and 1.19 in. from left registered for encryption unit attentions state Consider creating an acronym for this wordy name (REUA state?). Since it is in lowercase, it is hard to read.			
HPQ-137		77	4.2.21.7	At 5.98 in. down and 1.28 in. from left generate s/b establish			
HPQ-138		79	Editors Note 2	"data" replaced with "logical block"in numerous places	Substitution seems reasonable. Leave as substituted in 4a draft.		
HPQ-139		80	4.2.22.2.1	Second paragraph first sentence "data encryption capabilities"	It would be good to reference this to (see 4.2.21.9)		

HPQ-140		80	4.2.22.2.1	At 6.31 in. down and 3.71 in. from left nexus s/b nexuses			
HPQ-141		80	4.2.22.2.2	Next to last a/b list item b/B - "report the encryption algorithm in the Data Encryption Capabilities page with the DISABLED bit set to one.." - The DISABLED bit has been removed	Should be "report the encryption algorithm in the Data Encryption Capabilities page with the DECRYPT_C field set to No Capability and the ENCRYPT_C field set to No Capability."		
HPQ-142		80	4.2.22.2.2	In the last paragraph on the page the statement "If external data encryption control has been used to configure the physical device to prevent device server control of data encryption parameters" does not clearly state what conditions would cause this state.	Add an example at the end of the sentence (e.g., the device contains a device server that reports itself as an ADC device and the data encryption parameters control policy is set to a policy type where control of encryption algorithms by this device server is prevented, see ADC-3)		
HPQ-143		81	4.2.22.3.2	Last paragraph on the page "If external data encryption control is not being used, then the data encryption control policies shall be set to defaults." - Should use consistent naming.	Should be ". . . then the data encryption parameters request policies . . ."		
HPQ-144		83	4.2.22.3.2 Table 16	At 3.28 in. down and 6.73 in. from left encryptionparam s/b encryption param			
HPQ-145		83	4.2.22.3 Table 16	At 3.52 in. down and 0.55 in. from left Should RECOVER BUFFERED DATA also be in the list in table 16?			
HPQ-146		86	4.2.23.3	At 4.63 in. down and 4.99 in. from left StrikeOut: '			
HPQ-147		86	4.2.23.3	At 4.96 in. down and 2.84 in. from left sent to it s/b that it receives			
HPQ-148		89	5.1 Table 21	At 4.27 in. down and 0.37 in. from left SPC-4 lists A5h MOVE MEDIUM as being optional for this device type			
HPQ-149		89	5.1 Table 21	At 6.70 in. down and 0.54 in. from left LOCATE(16) is listed as optional in SPC-4			

HPQ-150		90	5.1 Table 21	At 3.55 in. down and 0.21 in. from left SPC-4 lists commands like READ(16) and WRITE (16) as mandatory for the SSC device type. However, they're really only mandatory for explicit addressing; they're not even supported for implicit addressing. Similarly, VERIFY (16) is optional for explicit addressing, but not allowed for implicit addressing. Perhaps a new letter should be used in the SPC-4 table defined as "Y see the command standard"			
HPQ-151		90	5.1 Table 21	At 5.64 in. down and 1.15 in. from left ALIAS s/b ALIASES			
HPQ-152		90	5.1 Table 21	At 6.15 in. down and 1.15 in. from left DEVICE IDENTIFIER s/b IDENTIFYING INFORMATION			
HPQ-153		90	5.1 Table 21	At 6.49 in. down and 0.21 in. from left REPORT LUNS is supposed to be M not X. The old rules along the lines of "mandatory for LUN 0, optional for the rest" were eliminated by 02-260r1 per minutes 02-273r0.			
HPQ-154		90	5.1 Table 21	At 6.88 in. down and 0.20 in. from left Add: A3h/0Dh REPORT SUPPORTED TASK MANAGEMENT FUNCTIONS A3h/0Eh REPORT PRIORITY A3h/0Fh REPORT TIMESTAMP A3h/10h MANAGEMENT PROTOCOL IN			
HPQ-155		90	5.1 Table 21	At 7.27 in. down and 0.26 in. from left Add: A4h/0Eh SET PRIORITY A4h/0Fh SET TIMESTAMP A4h/10h MANAGEMENT PROTOCOL OUT			

HPQ-156		93	5.2 Table 23	At 4.08 in. down and 0.43 in. from left Global for all table headers: Table headers are inconsistent. XYZ field values (sometimes) or XYZ field definition (sometimes) or XYZ field (sometimes) I recommend just: XYZ field			
HPQ-157		93	5.2 Table 23	At 4.28 in. down and 1.40 in. from left Value s/b Code			
HPQ-158		94	5.3	At 9.88 in. down and 3.27 in. from left end-of-partition s/b EOP			
HPQ-159		98	5.4	At 1.98 in. down and 2.62 in. from left (beginning-of-partition s/b BOP			
HPQ-160		98	5.4	At 2.31 in. down and 2.61 in. from left beginning-of-partition s/b BOP			
HPQ-161		104	6.1 Table 29	At 4.24 in. down and 0.24 in. from left Need to list obsolete command opcodes for this device type per SPC-4 16h RESERVE (6) 17h RELEASE (6) 39h COMPARE 3Ah COPY AND VERIFY 40h CHANGE DEFINITION 56h RESERVE(10) 57h RELEASE(10)			
HPQ-162		104	6.1 Table 29	At 4.87 in. down and 0.30 in. from left 7Eh extended CDB is listed as optional for this device type in SPC-4			
HPQ-163		104	6.1 Table 29	At 5.29 in. down and 0.28 in. from left SPC-4 lists these opcodes A5h MOVE MEDIUM B8h READ ELEMENT STATUS as being optional for this device type. They should probably be listed as obsolete			

HPQ-164		104	6.1 Table 29	At 5.65 in. down and 0.25 in. from left Mention that these opcodes A7h MOVE MEDIUM ATTACHED B4h READ ELEMENT STATUS ATTACHED are obsolete for this device type			
HPQ-165		104	6.1 Table 29	At 7.22 in. down and 0.50 in. from left LOCATE (10) is listed as optional in SPC-4			
HPQ-166		104	6.1 Table 29	At 7.50 in. down and 0.32 in. from left LOCATE (16) is listed as optional in SPC-4			
HPQ-167		104	6.1 Table 29	At 9.12 in. down and 0.37 in. from left PR IN/OUT are listed as optional in SPC-4			
HPQ-168		105	6.1 Table 29	At 2.87 in. down and 0.83 in. from left The PREVENT ALLOW MEDIUM REMOVAL command needs to be defined in this standard; it was evicted from SPC-4 since MMC-5 was not following the general definition.			
HPQ-169		105	6.1 Table 29	At 5.41 in. down and 1.97 in. from left ALIAS s/b ALIASES			
HPQ-170		105	6.1 Table 29	At 5.68 in. down and 1.97 in. from left DEVICE IDENTIFIER s/b IDENTIFYING INFORMATION			
HPQ-171		105	6.1 Table 29	At 6.00 in. down and 0.71 in. from left REPORT LUNS is supposed to be M not X. The old rules along the lines of "mandatory for LUN 0, optional for the rest" were eliminated by 02-260r1 per minutes 02-273r0.			
HPQ-172		105	6.1 Table 29	At 6.39 in. down and 0.63 in. from left Add: A3h/0Dh REPORT SUPPORTED TASK MANAGEMENT FUNCTIONS A3h/0Eh REPORT PRIORITY A3h/0Fh REPORT TIMESTAMP A3h/10h MANAGEMENT PROTOCOL IN			

HPQ-173		105	6.1 Table 29	At 8.06 in. down and 0.53 in. from left Add: A4h/0Eh SET PRIORITY A4h/0Fh SET TIMESTAMP A4h/10h MANAGEMENT PROTOCOL OUT			
HPQ-174		105	6.1 Table 29	At 8.19 in. down and 1.67 in. from left DEVICE IDENTIFIER s/b IDENTIFYING INFORMATION			
HPQ-175		111	6.5	At 5.30 in. down and 1.00 in. from left beginning-of-partition s/b BOP			
HPQ-176		111	6.5	At 7.30 in. down and 2.73 in. from left beginning-of-partition s/b BOP			
HPQ-177		111	6.5	At 7.63 in. down and 3.14 in. from left beginning-of-partition s/b the BOP			
HPQ-178		112	6.6	At 7.91 in. down and 5.21 in. from left beginning-of-partition s/b BOP			
HPQ-179		112	6.6	At 8.07 in. down and 1.87 in. from left beginning-of-partition s/b BOP			
HPQ-180		112	6.6	At 9.74 in. down and 2.34 in. from left end-of-partition s/b EOP			
HPQ-181		112	6.6	At 9.91 in. down and 0.68 in. from left beginning-of-partition s/b BOP			
HPQ-182		113	6.6	At 5.12 in. down and 1.07 in. from left beginning-of-partition s/b the BOP			
HPQ-183		113	6.6	At 6.12 in. down and 3.92 in. from left beginning-of-partition s/b BOP			
HPQ-184		113	6.6	At 6.45 in. down and 3.71 in. from left count s/b smallcaps			

HPQ-185		113	6.6	At 7.45 in. down and 5.62 in. from left beginning-of-partition s/b BOP			
HPQ-186		113	6.6	At 7.95 in. down and 1.08 in. from left end-of-partition s/b EOP			
HPQ-187		119	7.1	At 5.71 in. down and 5.95 in. from left beginning-of-partition 0 (BOP 0) s/b BOP 0			
HPQ-188		120	7.1 Table 40	At 1.96 in. down and 3.60 in. from left Format field definition s/b FORMAT field			
HPQ-189		120	7.1 Table 40	At 2.29 in. down and 2.51 in. from left Value s/b Code			
HPQ-190		121	7.2	At 6.20 in. down and 0.95 in. from left the beginning-of-partition zero s/b BOP 0			
HPQ-191		121	7.2	At 7.70 in. down and 2.76 in. from left generate s/b establish			
HPQ-192		121	7.2	At 10.20 in. down and 4.52 in. from left beginning-of-medium s/b BOM			
HPQ-193		124	7.4 Table 45	At 5.60 in. down and 2.48 in. from left PREVENT s/b Code			
HPQ-194		128	7.6.2	At 7.88 in. down and 5.20 in. from left beginning-of-partition s/b BOP			
HPQ-195		128	7.6.2	At 8.05 in. down and 5.06 in. from left beginning-of-partition s/b BOP			
HPQ-196		128	7.6.2	At 8.38 in. down and 6.22 in. from left early-warning s/b EW			
HPQ-197		128	7.6.2	At 8.55 in. down and 0.45 in. from left end-of-partition s/b EOP			

HPQ-198		128	7.6.2	At 8.71 in. down and 0.45 in. from left early-warning s/b EW			
HPQ-199		128	7.6.2	At 8.71 in. down and 1.59 in. from left end-of-partition s/b EOP			
HPQ-200		131	7.6.3	At 5.14 in. down and 5.62 in. from left beginning-of-partition s/b BOP			
HPQ-201		138	7.8.4	At 8.64 in. down and 4.84 in. from left field bit s/b bit			
HPQ-202		140	7.9	At 7.16 in. down and 5.31 in. from left beginning-of-partition s/b BOP			
HPQ-203		141	7.1	At 8.14 in. down and 5.82 in. from left beginning-of-partition 0 (BOP 0) s/b BOP 0			
HPQ-204		141	7.1	At 9.14 in. down and 5.21 in. from left generate s/b establish			
HPQ-205		142	7.11	At 10.50 in. down and 4.71 in. from left (toward beginning-of-partition) s/b (towards BOP)			
HPQ-206		143	7.11	At 1.64 in. down and 2.37 in. from left beginning-of-partition s/b BOP			
HPQ-207		144	7.11	At 2.48 in. down and 0.68 in. from left beginning-of-partition s/b BOP			
HPQ-208		144	7.11	At 7.43 in. down and 0.57 in. from left beginning-of-partition s/b BOP			
HPQ-209		144	7.11	At 8.43 in. down and 3.49 in. from left beginning-of-partition s/b BOP			
HPQ-210		146	8.2.1 Table 63	At 6.78 in. down and 0.35 in. from left Add log page subpages to table 63.			

HPQ-211		146	8.2.1 Table 63	At 9.22 in. down and 0.33 in. from left Log page 08h/00h is listed in SPC-4 as "Format Status" for tape drives. If it is obsolete, it should be mentioned in table 63.□If it never existed, it should be removed from SPC-4.			
HPQ-212		146	8.2.1 Table 63	At 9.25 in. down and 2.79 in. from left Error Events s/b Error or Asynchronous Events			
HPQ-213		147	8.2.2	The following text is difficult to read: The Sequential-Access Device log page defines data counters associated with data bytes transferred to and from the medium and to and from the application client, binary list parameters describing native capacities, and a binary list parameter related to cleaning.	The Sequential-Access Device log page defines: a) data counters associated with data bytes transferred to and from the medium and to and from the application client, b) binary list parameters describing native capacities, and c) a binary list parameter related to cleaning.		
HPQ-214		147	8.2.1 Table 63	At 2.24 in. down and 2.58 in. from left test s/b Test			
HPQ-215		147	8.2.1 Table 63	At 2.87 in. down and 0.76 in. from left Log page 12h/00h is not listed in SPC-4 for this device type			
HPQ-216		147	8.2.1 Table 63	At 2.99 in. down and 1.00 in. from left Log page 13h/00h is not listed in SPC-4 for this device type			
HPQ-217		147	8.2.1 Table 63	At 3.92 in. down and 0.83 in. from left Log page 18h/xxh is Protocol Specific Port			
HPQ-218		147	8.2.1 Table 63	At 4.26 in. down and 0.85 in. from left Log page 2Dh/00h is not listed in SPC-4			
HPQ-219		149	8.2.3 Table 65	At 4.49 in. down and 6.02 in. from left Add "(see table 66)" in rows 4 and n-y+1			
HPQ-220		149	8.2.3 Table 65	At 4.68 in. down and 0.61 in. from left Since the parameter length is fixed: Change x+3 to 8 Delete Length x=5 Change n-y+1 to n-4 Delete Length x=5			

HPQ-221		149	8.2.3	Update use of DS, LBIN and LP to be consistent with latest SPC4 log parameter fields	DS obsolete in SPC4, LBIN and LP should be replaced with FORMAT AND LINKING.		
HPQ-222		150	8.2.4.1 Table 67	At 6.97 in. down and 5.67 in. from left Add "(see table 69 in 8.2.4.2)" in rows 4 and n			
HPQ-223		152	8.2.4.3 Table 70 Byte 4	At 5.23 in. down and 3.56 in. from left StrikeOut: log			
HPQ-224		152	8.2.4.3 Table 70 Byte n	At 5.72 in. down and 3.57 in. from left StrikeOut: log			
HPQ-225		153	8.2.5 Table 72	At 8.80 in. down and 6.51 in. from left Add "(see table 73)" in rows 4 and n			
HPQ-226		154	8.2.5 Table 73	At 1.95 in. down and 5.97 in. from left In table 73 header, add "(part 1 of 2)"			
HPQ-227		155	8.2.5 Table 73	At 2.86 in. down and 1.30 in. from left Between bytes 32 and 63 StrikeOut: : :			
HPQ-228		156	8.2.6.1 Table 74	At 9.30 in. down and 5.69 in. from left Add "(see table 75)" in rows 4 and n			
HPQ-229		156	8.2.6.1 Table 74	At 9.32 in. down and 1.26 in. from left Make row 4 and row n each two rows tall, since they contain more than one byte			
HPQ-230		157	8.2.6.1 Table 75	At 4.44 in. down and 6.10 in. from left Add "(see table 76)" in rows 16 and t			
HPQ-231		158	8.2.6.1	At 1.81 in. down and 6.09 in. from left End of first sentence on page .. s/b .			
HPQ-232		159	8.2.6.3	The DEVICE ELEMENT CODE (DEC) …	The device element code (DEC) …		
HPQ-233		159	8.2.6.3	The DEVICE ELEMENT CODE QUALIFIER (DECQ) …	The device element code qualifier (DECQ)…		
HPQ-234		160	8.2.6.3	The DEVICE ELEMENT CODE TEXT (DECT) …	The device element code text (DECT) …		
HPQ-235		160	8.2.6.3	At 2.81 in. down and 7.16 in. from left .. s/b .			

HPQ-236		160	8.2.6.4 Table 82	At 7.52 in. down and 5.02 in. from left VOLUME INFORMATION LENGTH (n) s/b VOLUME INFORMATION LENGTH (n - 1)			
HPQ-237		161	8.2.6.4	The VOLUME INFORMATION CODE (VIC) …	The volume information code (VIC) ...		
HPQ-238		161	8.2.6.4	The VOLUME INFORMATION CODE QUALIFIER (VICQ) …	The volume information code qualifier (VICQ) ...		
HPQ-239		161	8.2.6.4	At 5.82 in. down and 5.63 in. from left Following VOLUME INFORMATION CODE QUALIFIER .. s/b .			
HPQ-240		161	8.2.6.4	At 10.03 in. down and 2.42 in. from left exsits s/b exists			
HPQ-241		162	8.2.6.5 Table 85	At 4.28 in. down and 5.46 in. from left 2 s/b 02h			
HPQ-242		162	8.2.6.5	At 5.27 in. down and 3.18 in. from left 16384 s/b 16 384 (add ISO style spaces throughout this page)			
HPQ-243		163	8.2.7.1 Table 86	At 4.94 in. down and 3.64 in. from left Reqested s/b Requested			
HPQ-244		166	8.3.1 Table 92	At 9.69 in. down and 1.31 in. from left Keep table 92 on one page			
HPQ-245		167	8.3.1	e) following an unsuccessful read operation or a successful write operation, while at beginning-of-partition, the device server shall report a density code value as described for item b);	Believe this should be: e) following an unsuccessful read operation or *an unsuccessful* write operation, while at beginning-of-partition, the device server shall report a density code value as described for item b);		
HPQ-246		167	8.3.1	At 7.63 in. down and 6.61 in. from left beginning-of-partition s/b BOP			
HPQ-247		167	8.3.1 Table 93	At 9.55 in. down and 0.24 in. from left Keep table 93 on one page			

HPQ-248		167	8.3.1 Table 93	At 9.78 in. down and 1.26 in. from left Code value s/b Code			
HPQ-249		168	8.3.1 Table 94	At 6.09 in. down and 0.28 in. from left SPC-4 claims that 0Ah/F1h is Parallel ATA Control and 0Ah/F2h is Serial ATA Control. I think those are incorrect; SAT does not define translation into SSC logical units, so SSC should not define those mode page codes as supported.			
HPQ-250		168	8.3.1 Table 94	At 6.86 in. down and 0.27 in. from left Mode page 10h/01h is not listed in SPC-4.			
HPQ-251		168	8.3.1 Table 94	At 7.22 in. down and 0.33 in. from left 11h/00h is called "Medium Partition (1)" in SPC-4			
HPQ-252		168	8.3.1 Table 94	At 7.57 in. down and 0.35 in. from left 12h and 13h are not marked obsolete in SPC-4			
HPQ-253		168	8.3.1 Table 94	At 7.93 in. down and 0.35 in. from left 14h/00h is labeled Enclosure Services Management in SPC-4			
HPQ-254		168	8.3.1 Table 94	At 8.13 in. down and 0.76 in. from left 15h and 16h are not assigned for the SSC device type in SPC-4			
HPQ-255		168	8.3.1 Table 94	At 8.68 in. down and 3.65 in. from left LUN s/b Logical Unit			
HPQ-256		168	8.3.1 Table 94	At 8.77 in. down and 0.28 in. from left 18h and 19h with non-zero subpage codes are also assigned in SPC-4 for this device type			
HPQ-257		169	8.3.1 Table 94	At 3.23 in. down and 0.53 in. from left 1Dh/00h is not in SPC-4			
HPQ-258		169	8.3.1 Table 94	At 3.46 in. down and 1.17 in. from left 1Dh s/b 1Eh			

HPQ-259		174	8.3.3	At 8.24 in. down and 3.40 in. from left beginning-of-partition s/b BOP			
HPQ-260		175	8.3.3 Table 99	At 8.91 in. down and 4.22 in. from left EOD DEFINED values s/b EOD DEFINED field definition			
HPQ-261		176	8.3.3	The WORM Tamper Read Enable (WTRE) field specifies how the device server responds to detection of comprimised integrity ...	The WORM Tamper Read Enable (WTRE) field specifies how the device server responds to detection of *compromised* integrity ...		
HPQ-262		177	8.3.3 Table 100 Code 00b	The device server shall respond in a vendor-specific manner.	The device server shall respond in a *vendor specific* manner.		
HPQ-263		177	8.3.3 Table 100 Code 01b	Detection of comprimised integrity on a WORM medium shall not affect processing of a task.	Detection of *compromised* integrity on a WORM medium shall not affect processing of a task.		
HPQ-264		177	8.3.3 Note 63	NOTE 63 An application client should set the WTRE field to 01b only for the recovery of data from a WORM medium where the integrity of the stored data has been comprimised.	NOTE 63 An application client should set the WTRE field to 01b only for the recovery of data from a WORM medium where the integrity of the stored data has been *compromised* .		
HPQ-265		177	8.3.3	Commands that shall not be effected by the OIR bit set to one are defined as Allowed in the presence of persistent reservations in table 14 or SPC-4, or are defined in SPC-2 as Allowed in the presence of reservations. Commands that shall be effected by the OIR bit set to one are defined as Conflict ...	Commands that shall not be *affected* by the OIR bit set to one are defined as Allowed in the presence of persistent reservations in table 14 or SPC-4, or are defined in SPC-2 as Allowed in the presence of reservations. Commands that shall be *affected* by the OIR bit set to one are defined as Conflict ...		
HPQ-266		179	8.3.4	At 8.60 in. down and 1.12 in. from left beginning-of-partition s/b BOP			
HPQ-267		179	8.3.4	At 10.24 in. down and 4.67 in. from left beginning-of-partition s/b BOP			
HPQ-268		180	8.3.4	At 2.48 in. down and 3.53 in. from left beginning-of-partition s/b BOP			
HPQ-269		181	8.3.4	An ADDP bit of one and ….	An additional partitions (??) (ADDP) bit of one and ….		
HPQ-270		181	8.3.4 Table 104	At 8.12 in. down and 3.74 in. from left Medium format recognition values s/b MEDIUM FORMAT RECOGNITION field definition			

HPQ-271		182	8.3.4	NOTE 68 It is recommended, but not required, that the number of partition size descriptors available through the Medium Partition mode page equal at least the number of maximum addition partitions + 1.	NOTE 68 It is recommended, but not required, that the number of partition size descriptors available through the Medium Partition mode page equal at least the number of maximum *additional* partitions + 1.		
HPQ-272		185	8.3.6	Table 107 field 32767 Reads "Activate all supported TapeAlert flags. Report the informational exception condition for the TapeAlert flag with an additional sense code of FAILURE PREDICTION THRESHOLD EXCEEDED (FALSE) and based on the DEXCPT, MRIE, INTERVAL TIMER, and REPORT COUNT values." I believe the "and" is not needed after (FALSE).			
HPQ-273		185	8.3.6	… if the DEXCPT bit is set to zero and the taser bit in the Device Configuration Extension mode page is set to zero …	… if the DEXCPT bit is set to zero and the TASER bit in the Device Configuration Extension mode page is set to zero …		
HPQ-274		186	8.3.7 Table 108	At 4.64 in. down and 1.54 in. from left Global (e.g. Table 108) Use 2 rows for Reserved			
HPQ-275		186	8.3.7 Table 109	At 7.46 in. down and 1.30 in. from left Value s/b Code			
HPQ-276		187	8.3.7 Table 110	At 2.46 in. down and 1.80 in. from left Value s/b Code			
HPQ-277		189	8.4.1 Table 113	At 2.76 in. down and 0.41 in. from left Global used Mixed Case for VPD page names			
HPQ-278		189	8.4.1 Table 113	At 4.32 in. down and 0.57 in. from left B3h Automation Device Serial Number is not listed in SPC-4			
HPQ-279		189	8.4.2	At 8.99 in. down and 0.95 in. from left If the Write Once Read Many... s/b A Write Once Read Many bit set to one indicates that ... A WORM bit set to zero indicates that...			

HPQ-280		190	8.4.3	At 5.49 in. down and 0.29 in. from left For the SERIAL NUMBER fields in 8.4.3 and 8.4.5: If the serial number is not available, wouldn't the device server just return a PAGE LENGTH of 0? How many spaces would it be expected to provide?			
HPQ-281		191	8.5.2.1	Device Server -> Physical Device First paragraph first sentence - "requests the device server to return information about the data security methods in the device server and on the medium."	Should be "requests the device server to return information about the data security methods in the physical device and on the medium."		
HPQ-282		192	8.5.2.1	At 1.81 in. down and 0.45 in. from left Tape Data Encryption security protocol s/b 20h (i.e., Tape Data Encryption) (see SPC-4)			
HPQ-283		192	8.5.2.1 Table 118	At 6.07 in. down and 1.40 in. from left 30h s/b 0030h			
HPQ-284		192	8.5.2.1 Table 118	At 6.31 in. down and 1.40 in. from left 31h s/b 0031h			
HPQ-285		194	8.5.2.4 Table 121	At 5.54 in. down and 5.89 in. from left Add "(see table 124)" in rows 20 and n			
HPQ-286		194	8.5.2.4 Table 121	At 5.74 in. down and 0.74 in. from left This descriptor size is 24 bytes, so change first blank to 43 and the second to n - 23			
HPQ-287		194	8.5.2.4	At 6.73 in. down and 3.30 in. from left field s/b field and the			
HPQ-288		194	8.5.2.4	At 6.73 in. down and 5.02 in. from left page code s/b smallcaps			
HPQ-289		195	8.5.2.4 table 123, code 01b description	The physical device configured…	change to: The physical device is configured….		
HPQ-290		195	8.5.2.4 Table 124	At 6.63 in. down and 0.53 in. from left add vertical line in row 4 and 5			

HPQ-291		196	8.5.2.4	Device Server -> Physical Device Second paragraph on page - "The supplemental decryption key capable bit shall be set to one if the device server is capable . . . shall be set to zero if the device server is not capable"	Should be - "The supplemental decryption key capable bit shall be set to one if the physical device is capable . . . shall be set to zero if the physical device is not capable . . . "		
HPQ-292		196	3rd parag., last line	"in any format that the device supports" It is not clear whether this means "any" as in 1 or more, or "any" as in all.	I believe this was supposed to mean : 1 or more supported formats. Change wording to clarify.		
HPQ-293		196	8.5.2.4	Device Server -> Physical Device Third paragraph on page - "The distinguish encrypted data capable bit shall be set to one if the device server is capable of distinguishing encrypted data from unencrypted data when reading it from the medium. The DEC_C bit shall be set to zero if the device server is not capable . . . If no volume is mounted, the DEC_C bit shall be set to one if the device server is capable. . . "	Should be "The distinguish encrypted data capable (DED_C) bit shall be set to one if the physical device is capable of distinguishing encrypted data from unencrypted data when reading it from the medium. The DEC_C bit shall be set to zero if the physical device is not capable . . . If no volume is mounted, the DEC_C bit shall be set to one if the physical device is capable. . . "		
HPQ-294		197	8.5.2.4 Table 127	At 5.91 in. down and 2.62 in. from left ecryption s/b encryption			
HPQ-295		197	8.5.2.4 Table 127	At 6.31 in. down and 2.62 in. from left ecryption s/b encryption			
HPQ-296		197	8.5.2.4	Device Server -> Physical Device Table 128 Items 1,2,3 all show nonce as part of device server when it has moved to the physical device	1 - The physical device generates the nonce value. 2 - The physical device requires all of part . . . 3 - The physical device supports all of part of the nonce . . . does not include a nonce value descriptor, the physical device generates the nonce value.		
HPQ-297		200	8.5.2.6	At 5.52 in. down and 5.54 in. from left Set Data Encryption page. s/b Set Data Encryption page (see 8.5.3.2).			

HPQ-298		201	8.5.2.7 Table 132	At 6.30 in. down and 0.63 in. from left Change 24..n Key-associated data descriptors list to: Key-associated data descriptor list (shaded or with double lines on top and bottom) 24 Key-associated data descriptor (first) ... Key-associated data descriptor (last) n			
HPQ-299		201	8.5.2.7	I_T nexus should be changed as per QTM-rbw-71 - instances not marked in red as per earlier changes			
HPQ-300		202	8.5.2.7	At 5.57 in. down and 0.45 in. from left Change: If the VCELB_C bit is set to one in the Data Encryption Capabilities page, then the volume contains encrypted logical blocks (VCELB) bit shall be set to one when a mounted volume contains an encrypted logical block. The VCELB bit shall be set to zero if: a)the mounted volume does not contain any encrypted logical blocks; b)there is no volume mounted; or c)the VCELB_C bit in the Data Encryption Capabilities page is set to zero. to: A volume contains encrypted logical blocks (VCELB) bit set to one indicates that the mounted volume contains an encrypted logical block. A VCELB bit set to zero indicates that either: a)the mounted volume does not contain any encrypted logical blocks; b)there is no volume mounted; or c)the VCELB_C bit in the Data Encryption Capabilities page is set to			
HPQ-301		202	8.5.2.7	Device Server -> Physical Device Paragraph following a/b/c list - "The raw decryption mode disabled (RDMD) bit shall be set to one if the device server is configured to mark each encrypted record . . . "	Should be "The raw decryption mode disabled (RDMD) bit shall be set to one if the physical device is configured . . . "		

HPQ-302		202	8.5.2.7	Device Server -> Physical Device fourth from last paragraph on page, near end of first sentence "at the time the key was established in the device server"	Should be "at the time the key was established in the physical device"		
HPQ-303		202	8.5.2.7	Device Server -> Physical Device Third from last paragraph on the page near end of first sentence "when the key was established in the device server"	Should be "when the key was established in the physical device"		
HPQ-304		202	8.5.2.7	Device Server -> Physical Device Next to last paragraph "when the key was established in the device server"	Should be "when the key was established in the physical device"		
HPQ-305		202	8.5.2.7	Device Server -> Physical Device Last paragraph "when the key was established in the device server"	Should be "when the key was established in the physical device"		
HPQ-306		203	8.5.2.8 Table 134	At 5.37 in. down and 0.85 in. from left It would be better to align the 8-byte LOGICAL OBJECT NUMBER field on an 8 byte boundary			
HPQ-307		203	8.5.2.7	Device Server -> Physical Device First paragraph continued from previous page middle sentence "when the key was established in the device server. In this case, the KEY DESCRIPTOR field shall be set to the nonce value established by the device server for use with the selected key."	Should be "when the key was established in the physical device. In this case, the KEY DESCRIPTOR field shall be set to the nonce value established by the physical device for use with the selected key."		
HPQ-308		204	8.5.2.8	Device Server -> Physical Device Table 135 references the device server for determining the status of the logical blocks - should be the physical device.	Should be: 0h - The physical device is incapable . . . 1h - The physical device is capable of . . . 2h - The physical device has determined . . . 3h - The physical device has determined . . . 4h - The physical device has determined . . .		
HPQ-309		205	8.5.2.8	Device Server -> Physical Device Table 136 references the device server for determining the status of the logical blocks - should be the physical device.	Should be: 0h - The physical device is incapable . . . 1h - The physical device is capable of . . . 2h - The physical device has determined . . . 3h - The physical device has determined . . . 4h - The physical device has determined . . . 5h - The physical device has determined . . . 6h - The physical device has determined . . . but the physical device is either not enabled . . .		
HPQ-310		206	8.5.2.9	At 9.91 in. down and 1.19 in. from left) s/b),			

HPQ-311		206	8.5.2.8	Device Server -> Physical Device Fourth paragraph second sentence - "The AUTHENTICATED field shall indicate the status of the authentication done by the device server . . . "	Should be: "The AUTHENTICATED field shall indicate the status of the authentication done by the physical device . . . "		
HPQ-312		206	8.5.2.8	Device Server -> Physical Device 'Fifth paragraph second sentence - "The AUTHENTICATED field shall indicate the status of the authentication done by the device server . . . "	Should be: "The AUTHENTICATED field shall indicate the status of the authentication done by the physical device . . . "		
HPQ-313		207	8.5.2.1	At 2.31 in. down and 4.07 in. from left may be used by an application client to read s/b returns			
HPQ-314		207	8.5.2.10.1 Table 138	At 5.55 in. down and 5.15 in. from left (n-9) s/b (n-13)			
HPQ-315		207	8.5.2.10.2	At 5.88 in. down and 0.84 in. from left It would be better to add 2 reserved bytes before PUBLIC KEY LENGTH so the PUBLIC KEY field starts on byte 16 (dword aligned)			
HPQ-316		207	8.5.2.10.2	At 9.68 in. down and 4.51 in. from left Bytes 14 through 269.. s/b The PUBLIC KEY field shall be set as follows: bytes 0 through 255 shall be set to the modulus n; and bytes 256 through 511 shall be set to the public exponent e.			
HPQ-317		208	8.5.2.10.3	At 2.14 in. down and 4.06 in. from left Bytes 14 through 146... s/b The PUBLIC KEY field shall be set to the ECC 521 public key...			
HPQ-318		208	8.5.3.1	At 3.81 in. down and 4.76 in. from left Tape Data Encryption security protocol s/b 20h (i.e., Tape Data Encryption) (see SPC-4)			

HPQ-319		208	8.5.3.1	Device Server -> Physical Device First paragraph first sentence - "The SECURITY PROTOCOL OUT command specifying the Tape Data Encryption security protocol (i.e., 20h) is used to configure the data security methods in the device server and on the medium" - data security methods are now in the physical device	Change to ". . . is used to configure the data security methods in the physical device and on the medium"		
HPQ-320		209	8.5.3.2.1 Table 141	At 6.69 in. down and 0.61 in. from left It may be better to start KEY on an 8-byte aligned boundary so any 8-byte fields contained within it (e.g. an ESP-SCSI payload) are naturally aligned.			
HPQ-321		209	8.5.3.2.1 Table 141	At 7.28 in. down and 0.51 in. from left Make same change as proposed in table 132 for how the descriptor list is described			
HPQ-322		210	8.5.3.2.1	At 1.82 in. down and 0.45 in. from left Second sentence on page, Replace: Support for scope values of PUBLIC and ALL I_T NEXUS are mandatory for device servers that support the Set Data Encryption page. with a column in table 142 showing Mandatory and Optional for each code			
HPQ-323		210	8.5.3.2.1 Table 142	At 2.71 in. down and 4.06 in. from left scope s/b smallcaps			
HPQ-324		210	8.5.3.2.1	At 4.93 in. down and 5.28 in. from left field.. delete extra .			
HPQ-325		210	8.5.3.2.1	Device Server -> Physical Device Last paragraph on the page "The raw decryption mode control (RDMC) field specifies if the device server shall mark each encrypted block"	Should be ". . . if the physical device shall march each encrypted block"		
HPQ-326		211	4th parag, 1st line,	I_T nexus change to I_T_L nexus again			
HPQ-327		211	8.5.3.2.1	Device Server -> Physical Device Table 144 - device server is marking encrypted blocks - should be physical device	Should be: 00b - The physical device shall mark . . . 01b - Reserved 10b - The physical device shall mark . . . 11b - The physical device shall mark . .		

HPQ-328		211	8.5.3.2.1	Device Server -> Physical Device Paragraph following a/b/c list ". . . the key sent in this page shall be added to the set of data encryption parameters used by the device server for the selected scope"	Should be: ". . . the key sent in this page shall be added to the set of data encryption parameters used by the physical device for the selected scope"		
HPQ-329		212	8.5.3.2	At 4.89 in. down and 0.24 in. from left Section 8.5.3.2 should include some references to 8.5.2.5 Data Encryption Management Capabilities, pointing out the relationship regarding the CKOD, CKORP, CKORL, LOCK, and the SCOPE fields and their _C counterparts.			
HPQ-330		212	8.5.3.2.1	Device Server -> Physical Device Table 145 - 2h should be updated to reflect data is encrypted in the physical device	Should be: 2h - ENCRYPT - The physical device shall encrypt . . .		
HPQ-331		213	8.5.3.2.1	Device Server -> Physical Device Table 146 - all fields have decryption occuring in the device server rather than the physical device	Should be: 0h - DISABLE - Data decryption is disabled. If the physical device encounters . . . 1h - RAW - Data decryption is disabled. If the physical device encounters . . . 2h - DECRYPT - The physical device shall decrypt all data . . . 3h - MIXED - The physical device shall decrypt all data that is read from the medium that the physical device dtermines what encrypted . . . If the physical device encounters unencrypted data . . ."		
HPQ-332		214	8.5.3.2.1 Table 147	At 3.21 in. down and 2.84 in. from left Make the descriptions in table 147 match the section header names 8.5.3.2.xx. the key to be used to encrypt or decrypt data. s/b a plain-text key a vendor-specific key reference. s/b a key reference. etc.			
HPQ-333		214	8.5.3.2.1 item b)	At 8.41 in. down and 3.75 in. from left StrikeOut: ; - following and			

HPQ-334		214	8.5.3.2.1	Device Server -> Physical Device Second paragraph following table 147 - "If the ENCRYPTION MODE field is set to ENCRYPT then device server shall save . . .and associate them with every logical block that is encrypted with this key by the device server"	Should be ". . . the physical device shall save . . .and associate them with every logical block that is encrypted with this key by the physical device"		
HPQ-335		214	8.5.3.2.1	Device Server -> Physical Device Third paragraph following table 147 - "If the ENCRYPTION MODE field is set to EXTERNAL the device server shall save . . ."	Should be "If the ENCRYPTION MODE field is set to EXTERNAL the physical device shall save . . ."		
HPQ-336		215	8.5.3.2.1	At 8.48 in. down and 7.82 in. from left Item a) of last a/b/c list StrikeOut: , - following or			
HPQ-337		215	8.5.3.2.1	Device Server -> Physical Device Third paragraph "if a nonce value descriptor (see 8.5.4.5) is included and the algorithm and the device server supports application client generated nonce values . . . and the encryption algorithm or the device server does not support . . . If the encryption algorithm or the device server request an application client generated nonce . . ."	Should be "if a nonce value descriptor (see 8.5.4.5) is included and the algorithm and the physical device supports application client generated nonce values . . . and the encryption algorithm or the physical device does not support . . . If the encryption algorithm or the physical device request an application client generated nonce . . ."		
HPQ-338		217	8.5.3.2.4.1 Table 150	At 3.96 in. down and 4.29 in. from left LABEL LENGTH s/b LABEL LENGTH (n - 3)			
HPQ-339		217	8.5.3.2.4.1 Table 150	At 4.81 in. down and 0.68 in. from left Could padding be included so the length fields are each aligned on 2 byte boundaries and so the key fields are each aligned on 4 byte boundaries?			
HPQ-340		217	8.5.3.2.4.1 Table 150	At 4.90 in. down and 4.05 in. from left WRAPPED KEY LENGTH s/b WRAPPED KEY LENGTH (m - (n+2))			
HPQ-341		217	8.5.3.2.4.1 Table 150	At 5.85 in. down and 4.14 in. from left SIGNATURE LENGTH s/b SIGNATURE LENGTH (z - (m+2))			
HPQ-342		218	8.5.3.2.4.2	At 5.65 in. down and 4.40 in. from left StrikeOut: (MGF) - in last sentence of first paragraph			
HPQ-343		218	8.5.3.2.4.2	At 6.48 in. down and 0.94 in. from left LABEL s/b smallcaps			

HPQ-344		219	8.5.3.2.4.3 Table 152	At 2.92 in. down and 0.85 in. from left Make table 152 wider so the 2nd column does not wrap			
HPQ-345		219	8.5.3.2.5	At 9.38 in. down and 5.39 in. from left ESP-SCSI out w/o length descriptor should change to match the name used in SPC-4 (global)			
HPQ-346		220	8.5.3.3 Table 154	At 5.47 in. down and 0.18 in. from left The ESP-SCSI out descriptor should start on a 4 or ideally 8 byte boundary so any fields contained within maintain their natural alignment.			
HPQ-347		221	8.5.4.2 Table 156	At 6.08 in. down and 1.34 in. from left Add acronyms in table 156 U-KAD A-KAD M-KAD The use the acronyms in the 8.5.4.x section headers and text.			
HPQ-348		221	8.5.4.2 Table 156	At 6.59 in. down and 2.56 in. from left 04 s/b 04h			
HPQ-349		221	8.5.4.2 Table 157	At 9.02 in. down and 5.11 in. from left authenticated s/b authentication			
HPQ-350		222	8.5.4.5	At 2.83 in. down and 1.77 in. from left descriptor s/b key descriptor			
HPQ-351		224	A.2 Table A.1	At 9.86 in. down and 3.27 in. from left in footnote a) StrikeOut: in SCSI streaming devices			
HPQ-352		224	A.2 Table A.1	At 10.02 in. down and 1.82 in. from left in footnote a) StrikeOut: to be used			
HPQ-353		230	Annex B, B.1.1	Meaning of "they" in 3rd sentence unclear	replace "that they use master data management servers" with "that master data management servers are used"		

HPQ-354		231	B.1.1	At 1.64 in. down and 2.74 in. from left key manager s/b centralized key manager			
HPQ-355		231	B.1.1	At 1.64 in. down and 3.60 in. from left master server s/b master data management server			
HPQ-356		231	B.1.1 item a)	At 2.48 in. down and 2.42 in. from left e.g. s/b e.g.,			
HPQ-357		231	B.1.2 Table B.1	At 6.30 in. down and 2.43 in. from left e.g. s/b e.g.,			
HPQ-358		231	B.1.2 Table B.1	At 7.03 in. down and 6.09 in. from left , s/b ;			
HPQ-359		233	C.1 Figure C.1	At 9.96 in. down and 6.47 in. from left Delete extra lines in bottom right box in figure C.1			
QTM-rbw-15		28		Add ADC to list of acronyms			
IBM 1		2		Comment= T10 Vice-Chair Change to Mark Evans			
IBM 2		4		Comment= 06-453r0: It would be typo: '06-453r0' because '06-453r1' is available and the latest change is reflected to the r04a document.			
IBM 3		13		Comment= DATA ENCRYPTION PARAMETERS FOR ENCRYPTION REQUEST POLICIES s/b Data encryption parameters for encryption request policies			
IBM 4		13		Comment= DATA ENCRYPTION PARAMETERS FOR DECRYPTION REQUEST POLICIES s/b Data encryption parameters for decryption request policies			
IBM 5		13		Comment= DATA ENCRYPTION PARAMETERS FOR ENCRYPTION REQUEST INDICATOR SETTINGS s/b Data encryption parameters for encryption request indicator settings			
IBM 6		13		Comment= DATA ENCRYPTION PARAMETERS FOR DECRYPTION REQUEST INDICATOR SETTINGS s/b Data encryption parameters for decryption request indicator settings			

IBM 7		13		Comment= DATA ENCRYPTION PERIOD TIMER EXPIRED INDICATOR s/b Data encryption period timer expired indicator			
IBM 8		13		Comment= dest_type small caps			
IBM 9		14		Comment= speed small caps			
IBM 10		14		Comment= eod small caps			
IBM 11		14		Comment= wtre small caps			
IBM 12		14		Comment= rewind on reset small caps			
IBM 13		15		Comment= worm mode label restrictions small caps			
IBM 14		15		Comment= worm mode filemarks restrictions small caps			
IBM 15		15		Comment= rdmc_c small caps			
IBM 16		15		Comment= security protocol specific small caps			
IBM 17		24		Comment= not coincide with s/b be different than			
IBM 18		24		StrikeOut Not all parameters are accessible through the page			
IBM 19		24		Comment= may be s/b is			
IBM 20		25		Comment= not coincide with s/b be different than			
IBM 21		26		Comment= 3.1.56 reservation loss: An event caused by the release of a reserve/release method reservation (see SPC-2) or by the transition within the device server from the state where a persistent reservation holder exists to the state where a persistent reservation holder does not exist (see SPC-4).	Comment 1: add: A preempt of a reservation is not considered a reservation loss if a new reservation is created as part of that preempt. <<to distinguish between CORL and CORP Comment 2: Shouldn't thisstate where one of the reservation participants no longer is a part of the reservation? I am thinking of the case where a CORL is set and a single initiator from an RO type of persistent reservation is preempted. There seems to be a hole in the clearon reservation loss vs. clear on reservation preempt.		
IBM 22		26		Comment= 3.1.53 physical device: An object in a SCSI target device that performs operations on a volume (e.g. reading writing loading and unloading). It also stores parameters and communicates between device servers.			
IBM 23		28		Comment= cpapbility s/b capability			
IBM 24		28		Comment= 3.1.81 unencrypted block: A logical block containing data that has not been subjected to a ciphering process by the device server. add This is often called cleartext.			
IBM 25		28		StrikeOut Comment= part of the unloading This happens in more than just unloading.			
IBM 26		28		StrikeOut Comment= part of the loading This happens in more than just loading process			

IBM 27		39		Comment= Is it better to make sure REW is set or not. In addition "REW bit" is referred in read/space/verify command also. I think it is better to make sure how programable early warning affect these command.			
IBM 28		39		Text Comment= add figure to 4.2.5 that shows PEWZ and PEWS superimposed on Figure 9			
IBM 29		48		Comment= can s/b is able to			
IBM 30		48		Comment= only can be recorded at EOD s/b an attempt to write in an unrecordable location is attempted.			
IBM 31		50		Comment= can facilitate s/b facilitates			
IBM 32		50		Comment= How is it known that the device server will become ready. There is an implicating here that ac's can't know.			
IBM 33		51		Comment= must s/b is required to			
IBM 34		61		Comment= systme s/b system			
IBM 35		61		Comment= Severity s/b Default Severity			
IBM 36		62		Comment= .I s/b .			
IBM 37		62		Comment= 8.2.3.x s/b 8.2.6.5			
IBM 38		63		Comment= Start of next medium load Is this correct? Should it clear after the medium is ejected (or removed) instead? This way an AC or the library can use the flag to determine the action needed.			
IBM 39		71		Comment= and s/b or			
IBM 40		71		Comment= I_T_L nexus s/b I_T nexus			
IBM 41		71		Comment= I_T_L nexus s/b I_T nexus			
IBM 42		71		Comment= I_T_L nexus s/b I_T nexus			
IBM 43		71		Comment= I_T_L nexus s/b I_T nexus			
IBM 44		71		Comment= I_T_L nexus s/b I_T nexus			
IBM 45		71		Comment= I_T_L nexus s/b I_T nexus			
IBM 46		72		Comment= I_T_L nexus s/b I_T nexus			
IBM 47		72		Comment= I_T_L nexus s/b I_T nexus			
IBM 48		72		Comment= shall be s/b is			
IBM 49		75		Comment= f)a power on condition occurs. add: g) vendor-specific events (e.g. External data encryption control specified clearings) Perhaps list them out specifically			
IBM 50		77		Comment= support encryption s/b tape data encryption DS may support SA's and thereby support encryption but not the Tape Data Encryption page.			

IBM 51		77		Comment= By default the device server shall set the saved I_T nexus parameters data encryption scope value to PUBLIC and lock value to zero. s/b The device server shall set the saved I_T nexus parameters data encryption scope value to PUBLIC and lock value to zero at power-on			
IBM 52		77		StrikeOut Comment=single bit			
IBM 53		78		Comment= no s/b not enough			
IBM 54		78		Comment= beyond s/b outside			
IBM 55		80		Comment= an external entity s/b an entity that is not part of the device server			
IBM 56		80		StrikeOut Comment=external			
IBM 57		80		Comment= If the physical device has a saved set of data encryption parameters associated with this device server or has a medium mounted then the physical device shall not allow external data encryption control of data encryption capabilities. If the physical device does not have a set of data encryption parameters associated with this device server and does not have a medium mounted then external data encryption control may be used to change the data encryption capabilities.	External data encryption control may be used to change data encryption capabilities if the physical device: a) does not have a set of data encryption parameters associated with this device server; and b) does not have a medium mounted. External data encryption control shall not be used to change data encryption capabilities if the physical device: a) has a set of data encryption parameters associated with this device server; or b) has a medium mounted.		
IBM 58		80		Comment= 4.2.22 External data encryption control "External data encryption control" is a name that will lead to confusion. "External" is already used to describe the RAW read/EXTERNAL write and there is a variable called "check external encryption mode" related to that. Change "External data encryption" to "Out of band data encryption"			
IBM 59		81		Comment= External data encryption control may be used to control data encryption parameters by using: 1)a data encryption parameters request policy to set a data encryption parameters request indicator to TRUE; 2)a data encryption parameters period to determine how long to wait for the data encryption parameters request indicator to be set to FALSE; and 3)the set of data encryption parameters that have been set in the physical device. Why is this an ordered list instead of an unordered list. Change to unordered list.			
IBM 60		82		Comment= data decryption parameters request indicator to be set to TRUE add cross reference (see Table 16)			

IBM 61		83		Comment= encryptionparameters s/b encryption parameters			
IBM 62		83		Comment= a s/b an			
IBM 63		83		Comment= Move the e.g. to correct place in sentence The physical device is waiting for the data encryption parameters for encryption request indicator to be set to FALSE (e.g. an ADC device server processes a SECURITY PROTOCOL OUT command with a DATA ENCRYPTION PARAMETERS COMPLETE page and the clear encryption parameters request (CEPR) bit set to one see ADC-3) before continuing to process the task in the enabled task state.			
IBM 64		83		Comment= FALSE, then s/b FALSE			
IBM 65		84		Comment= Move the e.g. to the correct location in the sentence The physical device is waiting for the data encryption parameters for decryption request indicator to be set to FALSE (e.g. an ADC device server processes a SECURITY PROTOCOL OUT command with a DATA ENCRYPTION PARAMETERS COMPLETE page and the clear encryption parameters request (CEPR) bit set to one see ADC-3) before continuing to process the task in the enabled task state.			
IBM 66		84		Comment= FALSE, then s/b FALSE			
IBM 67		84		Comment= determine how long the physical device waits for a set of data encryption parameters; Is this true? Is it how long Physical device waits for parameters or how long the device server waits for the request indicator to be set to FALSE or is both? Does the physical device set the request indicator to FALSE or does the DS?			
IBM 68		84		Comment= if s/b when			
IBM 69		85		Comment= show s/b shown			
IBM 70		85		Comment= If s/b When			
IBM 71		85		Comment= Data Encryption Status page Add cross-reference			
IBM 72		86		Comment= can unwrap s/b is capable of unwrapping			
IBM 73		86		Comment= To prevent an attacker from having the ability to send a wrapped key, the device server shall maintain the authorization white list in a manner that prevents an attacker from modifying the white list.			
IBM 74		86		Comment= Is it correct to say that a device server should do all this? Doesn't it require more than the device server?			

IBM 75		86		Comment= NOTE 14 NIST SP800-57 Part 1 discourages combining non-comparable strength algorithms. While it can be argued that this is a good note to have somewhere this does not seem like the correct place.			
IBM 77		87		Comment= vced s/b volume contains encrypted logical blocks (VCELB)			
IBM 78		87		Comment= the s/b a			
IBM 79		87		Comment= VCEDRE s/b volume containing encrypted logical blocks requires encryption (VCELBRE)			
IBM 80		129		Comment= or s/b and not			
IBM 81		133		Comment= select the maximum block length supported by the logical unit to ensure that all buffered data will be transferred and set the FIXED bit to zero. s/b set the FIXED bit to zero and select the maximum block length supported by the logical unit to ensure that all buffered data is transferred.			
IBM 82		148		Comment=native capacity (see 3.1.46)			
IBM 83		148		Comment=native capacity (see 3.1.46)			
IBM 84		148		StrikeOut Comment= This native capacity is assuming one-to-one compression (e.g. compression disabled) the medium is in good condition and that the device recommended typical block size is used.			
IBM 85		148		Comment=native capacity (see 3.1.46)			
IBM 86		148		Comment=native capacity (see 3.1.46)			
IBM 87		148		Comment=native capacity (see 3.1.46)			
IBM 88		148		Comment= There is no guarantee about the amount of data that can be written before reaching EW. s/b Conditions may occur that reduce the amount of data that is written before reaching EW.			
IBM 89		163		Comment= rrqst small caps			
IBM 90		165		Comment= reovery s/b recovery			
IBM 91		165		Comment= contact s/b Contact			
IBM 92		165		Comment= no other recovery procedures shall be reported. s/b no other recovery procedures other than 0Dh and 0Eh shall be reported.			
IBM 93		165		Comment= no other recovery procedures shall be reported. s/b no other recovery procedures other than 0Dh and 0Eh shall be reported.			
IBM 94		166		Comment= will be s/b is			
IBM 95		198		Comment= that the device server can support s/b supported by the device server			

IBM_96		198		Comment= that the device server can support s/b supported by the device server			
IBM_97		225		Comment= can be s/b is capable of being			
IBM_98		225		Comment= The drive can no longer write data to the tape. s/b Data is no longer able to be written to the tape by the drive			
IBM_99		225		Comment= The drive can no longer read data from the tape. s/b Data is no longer able to be read from the tape by the drive			
IBM_100		225		Comment= can no longer s/b is no longer able to			
IBM_102		226		Comment= will appear s/b appears			
IBM_103		226		Comment= will be s/b is			
IBM_104		227		Comment= The drive is having severe trouble reading or writing that will be resolved by a retension cycle. s/b A retension cycle is needed to resolve severe reading or writing problems.			
IBM_105		228		Comment= can s/b may			
IBM_106		228		Comment= will be s/b is			
IBM_107		231		Comment= can easily be s/b is easily			
IBM_L1				In Table 15 and Table 16, No request row (first row), strike the last sentence from the description that says "This is the default setting..."			
HP_L1		194	8.5.2.4 table 122	Code: 00b The external data encryption control capability is not supported. Should be 00b The external data encryption control capability is not reported.			
IBM_L2			4.2.21.11, p2	Add a new sentence after s1: The LOCK bit in the Set Data Encryption page is set to one to lock the I_T nexus that issued the SECURITY PROTOCOL OUT command to the set of data encryption parameters established at the completion of the processing of the command. A set of data encryption parameters are established and locked even if the ENCRYPTION MODE is set to DISABLE and the DECRYPTION MODE is set to DISABLE.			
QTM-rbw L1	E	202	4th para. after lettered list, next-to	they shall be in order of increasing value of the DESCRIPTOR TYPE field s/b they shall be in increasing numeric order of the value in the KEY DESCRIPTOR TYPE			
QTM-rbw L2	E	206	2nd para., last sentence	DESCRIPTOR TYPE s/b KEY DESCRIPTOR TYPE			
QTM-rbw L3	E	206	4th para. After Table 147	DESCRIPTOR TYPE s/b KEY			

Color Key:

Red - editor to research or working needs to
Yellow - working group action item
Pink - editor to incorporate
Purple - complete