

Voting Results on T10 Letter Ballot 01-112r0 on
Forwarding MMC-3 to First Public Review

Organization	Name	S Vote	Add'l Info
Adaptec, Inc.	Ron Roberts	P Yes	
Amphenol Interconnect	Bill Mable	P Yes	
Ancot Corp.	Bart Raudebaugh	P Yes	
BREA Technologies, Inc.	Bill Galloway	P Yes	
Brocade Comm. Systems, Inc.	Robert Snively	P Abs	Cmnts
Circuit Assembly Corp.	Leroy Fong	P Yes	
Cisco Systems, Inc.	David Peterson	P Yes	
CMD Technology	Edward Haske	P Yes	
Compaq Computer Corp.	Robert C. Elliott	P No	Cmnts
Congruent Software, Inc.	Peter Johansson	P No	Cmnts
Crossroads Systems, Inc.	John Tyndall	P Yes	
Dallas Semiconductor	Charles Tashbook	P Yes	
Dell Computer Corp.	Kevin Marks	A Yes	
EMC	Gary S. Robinson	P Yes	
Emulex	Robert H. Nixon	P Yes	
ENDL Texas	Ralph O. Weber	P No	IV Cmnts
Exabyte Corp.	Mike Taylor	R Yes	
FCI	Douglas Wagner	P Yes	
Fujitsu	Eugene Lew	P Yes	
General Dynamics	Nathan Hastad	P Yes	
Genroco, Inc.	Donald Woelz	P Yes	
Hewlett Packard Co.	Randy Haagens	P Yes	
Hitachi Cable Manchester, Inc	Zane Daggett	P Yes	
Honda Connectors	Thomas J. Kulesza	P Yes	
IBM / Tivoli Systems	George O. Penokie	P Yes	
Intel Corp.	Cris Simpson	P Yes	
Iomega Corp.	Tim Bradshaw	P Yes	
KnowledgeTek, Inc.	Dennis Moore	P Yes	
LSI Logic Corp.	John Lohmeyer	P Yes	
Maxtor Corp.	Pete McLean	A Yes	
Microsoft Corp.	Robert Griswold	P Yes	
Molex Inc.	Jay Neer	P Yes	
Nishan Systems Inc.	Charles Monia	P Yes	
Ophidian Designs	Edward A. Gardner	P Abs	IV Cmnts
Panasonic Technologies, Inc	Terence J. Nelson	P Yes	
Philips Electronics/CD Edge	William P. McFerrin	P Yes	
QLogic Corp.	Skip Jones	P Yes	
Quantum Corp.	Mark Evans	R Yes	
Seagate Technology	Gerald Houlder	P Yes	
Storage Technology Corp.	Erich Oetting	P Yes	
Sun Microsystems, Inc.	Kenneth Moe	P Yes	
Texas Instruments	Paul D. Aloisi	P YesC	Cmnts
Toshiba America Elec. Comp.	Tasuku Kasebayashi	P YesC	Cmnts
Troika Networks, Inc.	Rick Casaly	A Yes	
AMP / Tyco Electronics	Charles Brill	P Yes	
Woven Electronics		DNV	

Ballot totals:

40 Yes
3 No
2 Abstain
1 Organization(s) did not vote
46 Total voting organizations
7 Ballot(s) included comments

This 2/3rds majority ballot passed.

40 Yes is at least a majority of the membership [greater than 23] AND
40 Yes is at least 29 (2/3rds of those voting, excluding abstentions [43])

Key:

P Voter indicated he/she is principal member
A Voter indicated he/she is alternate member
O Voter indicated he/she is observer member
? Voter indicated he/she is not member or does not know status
YesC Yes with comments vote

Abs Abstain vote
 DNV Organization did not vote
 IV Individual vote (not organizational vote)
 Cmnts Comments were included with ballot
 NoCmnts No comments were included with a vote that requires comments
 DUP Duplicate ballot (last ballot received from org. is counted)
 PSWD The password was not correct (vote not counted)
 ORG? Organization is not voting member of T10 (vote not counted)

Comments attached to Abs ballot from Mr. Robert Snively of Brocade Comm. Systems, Inc.:

I abstain from this vote because the standard should be studied by those who are more directly involved in implementing and using this specialized technology.

Comments attached to No ballot from Mr. Robert C. Elliott of Compaq Computer Corp.:

CPQ.1 Page 23 Item 1
Please make Bookmarks available in the PDF file. From Word, the PDFMaker window includes a Bookmarks tab that lets you select which Styles convert to bookmarks. By default, Heading 1 through Heading 9 are converted.

CPQ.2 Page 23 Item 2
remove the

CPQ.3 Page 23 Item 3
remove specification

CPQ.4 Page 23 Item 4
The PDF file uses a font named ___WRD_EMBED_SU which is not embedded in the PDF file. This causes an error message when opening some of the pages in the middle (I'm not sure which pages specifically). Helvetica-Oblique is used by the PDF file. Arial-Italic is probaby the preferred font (since Arial, Arial-Bold, and Arial-Bold-Italic are also used, but other forms of Helvetica are not). NewCenturySchoolbook shows up in the list too. It should probably be replaced by TimesRoman or Arial.

CPQ.5 Page 23 Item 5
The Compaq entry is no longer accurate. Check with Monica Vago for the up-to-date list of NCITS members.

CPQ.6 Page 25 Item 1
MMC-3 Revision 9

CPQ.7 Page 26 Item 1
SCSI Parallel Interface -3 (SPI-3) ANSI Standard NCITS.336:2000

CPQ.8 Page 26 Item 2
ANSI Standard NCITS.33:2000

CPQ.9 Page 26 Item 3
ANSI Standard NCITS.306:1998

CPQ.10 Page 26 Item 4
ANSI Standard...

CPQ.11 Page 26 Item 5
ANSI Standard...

CPQ.12 Page 26 Item 6

Should ATA/ATAPI-5 be referenced now instead of or in addition to ATA/ATAPI-4?.

CPQ.13 Page 26 Item 7
this is now published as NCITS.314:1998
SMC-2 is in development NCITS T10/1383-D

CPQ.14 Page 26 Item 8
this is now published (see previous comment on SPI-2)

CPQ.15 Page 26 Item 9
NCITS won't know anything about IEEE P1394A.

CPQ.16 Page 26 Item 10
All the even numbered pages say MMC3 Revision 07; they should say MMC-3 Revision 9

CPQ.17 Page 28 Item 1
Any time the headers indent one level deeper, the ISO style guide requires there be no text in the section. Move the text into an "introduction" or "overview" subsection.

BAD:

3. header
<text>

3.1

3.2

GOOD:

3. header

3.1 introduction

<text>

3.2

3.3

...

...

CPQ.18 Page 28 Item 2
In header for section 3, change acronym to acronyms
However, there is no acronyms section. They are mixed in with the definitions under 3.1. Consider pulling the pure acronyms out into a separate section.

CPQ.19 Page 29 Item 1
In 3.1.28 add what the acronym means - (Content Protection for Recordable Media)

CPQ.20 Page 29 Item 2
Add what the acronym means:
(Content Protection for Prerecorded Media)

CPQ.21 Page 29 Item 3
Add definition and acronym for CSS (DVD-Video Content Scrambling System) - A system for ??

CPQ.22 Page 30 Item 1
Add Feature to the the definitions section since it has a special meaning.

CPQ.23 Page 30 Item 2
In the definitions section, add
LSB - least significant bit
MSB - most significant bit

CPQ.24 Page 33 Item 1
Use the SPC-2 definition of may and add a line for may not:
3.3.x may: A keyword that indicates flexibility of choice with no implied preference (equivalent to "may or may not").
3.3.x may not: A keyword that indicates flexibility of choice with no implied preference (equivalent to "may or may not").

CPQ.25 Page 33 Item 2
I suggest using the SPC-2 wording.

It has one functional difference: it allows recipients to check reserved values. MMC-3 current prohibits them from checking. If the initiator sets a bit (e.g. per MMC-4) and the target ignores it, shouldn't the initiator be told? The Features indication may cover this.

SPC-2 wording:

3.3.9 reserved: A keyword referring to bits, bytes, words, fields and code values that are set aside for future standardization.

A reserved bit, byte, word or field shall be set to zero, or in accordance with a future extension to this standard.

Recipients are not required to check reserved bits, bytes, words or fields for zero values. Receipt of reserved code values in defined fields shall be reported as error.

CPQ.26 Page 34 Item 1
shall not

CPQ.27 Page 34 Item 2
shall not

CPQ.28 Page 34 Item 3
lowercase obsolete

CPQ.29 Page 34 Item 4
After table 1 in section 4.1.1, change "he" to "the"

CPQ.30 Page 34 Item 5
After table 1 in section 4.1.1, change "must" to "shall"

CPQ.31 Page 35 Item 1
FCP

CPQ.32 Page 35 Item 2
SPI or SPI-3 to refer to the parallel SCSI interface.
However, there is no annex on SPI - just an annex on generic SCSI.

CPQ.33 Page 35 Item 3
in 4.1.4.1 change logical unit to Logical Unit to match rest of document

CPQ.34 Page 35 Item 4
in 4.1.4.3 capitalize Hard to match other uses in this document

CPQ.35 Page 36 Item 1
In 4.1.4.3, the intro to a list is "Logical Unit should" yet the last item includes a shall. Reword.

CPQ.36 Page 36 Item 2
In 4.1.4.3 3rd list item, remove "Do" to match the intro 'Logical Unit should:' phrase.

CPQ.37 Page 36 Item 3
In 4.1.4.3, 5th list item, reword as "not change Persistent Prevent state" to match the intro phrase "Logical Unit should:"

CPQ.38 Page 36 Item 4
The rest of the document discusses Power-On Rreset, Hard Reset, or Device Reset, not Target reset

CPQ.39 Page 37 Item 1
remove comma

CPQ.40 Page 37 Item 2
remove comma

CPQ.41 Page 37 Item 3
it should issue an eject command (START STOP UNIT command with LoEj bit set to one). At that time...

CPQ.42 Page 39 Item 1
bottom of table is truncated in the PDF file

CPQ.43 Page 41 Item 1
bottom of figure truncated

CPQ.44 Page 47 Item 1
After table 9, convert the text describing the Mode byte format into a table.

CPQ.45 Page 49 Item 1
which

CPQ.46 Page 50 Item 1
See Figure 9..(all tables and figures must be referenced in the text)

CPQ.47 Page 52 Item 1
in Figure 11.

CPQ.48 Page 54 Item 1
In Table 19, Remove (00) after each Reserved

CPQ.49 Page 56 Item 1
update Table 20 (Not Ready Error Reporting by command) with new
commands in SPC-2 like REPORT DEVICE IDENTIFIER and
SET DEVICE IDENTIFIER.
Remove obsolete commands like COMPARE, COPY, and COPY and VERIFY.
See comments in the SCSI informative annex.

CPQ.50 Page 56 Item 2
In Table 20, some entries combine multiple sizes or command types into
one row (like LOG SELECT/SENSE or MODEL SELECT) while others are given
their own rows (like READ(10) and READ(12)).
Use one consistent format.

CPQ.51 Page 58 Item 1
The track/session structure of a CD-MRW is shown in Figure 12.

CPQ.52 Page 58 Item 2
(see Figure 13).

CPQ.53 Page 58 Item 3
Move figure 12 caption under the figure to match the rest of the document.

CPQ.54 Page 58 Item 4
Move figure 13 caption under the figure to match the rest of the document.

CPQ.55 Page 58 Item 5
After figure 13, change must to shall (two places)

CPQ.56 Page 59 Item 1
change comma to semicolon

CPQ.57 Page 59 Item 2
ensure

CPQ.58 Page 59 Item 3
In 4.3.1.1, add a Table caption and a reference to it in the text.

CPQ.59 Page 59 Item 4
in 4.3.1.2, change must to shall (two places)

CPQ.60 Page 62 Item 1
Figure 14 shows the physical and logical layouts of DDCD.

CPQ.61 Page 64 Item 1
should this be figure 15 (which is not referenced)?

CPQ.62 Page 64 Item 2
remove and

CPQ.63 Page 64 Item 3
and 104

CPQ.64 Page 64 Item 4
bytes (see Figure 16).

CPQ.65 Page 65 Item 1
follows (see Figure 17):

CPQ.66 Page 66 Item 1
note in section 4.5.7 uses "spinning" instead of "spun up"

CPQ.67 Page 69 Item 1
should this be figure 18 (which is not otherwise referenced)?

CPQ.68 Page 71 Item 1
Figures 20 through 26

CPQ.69 Page 77 Item 1
move caption below figure to match the others

CPQ.70 Page 78 Item 1
The data organization within an ECC block is shown in figure 27.

CPQ.71 Page 81 Item 1
only uses

CPQ.72 Page 82 Item 1
center the Table 27 caption.

CPQ.73 Page 84 Item 1
Add a text reference to figure 32.

CPQ.74 Page 89 Item 1
Add --- after 38 to match other table caption formats

CPQ.75 Page 92 Item 1
Note in 4.4.1.7 uses "spun up" instead of "spinning"

CPQ.76 Page 92 Item 2
remove will

CPQ.77 Page 94 Item 1
reports the current RPC state when processing...

CPQ.78 Page 94 Item 2
in 4.5.8.4 change reset to set

CPQ.79 Page 96 Item 1
remove "or reset" from figure 36.

CPQ.80 Page 97 Item 1
provides

CPQ.81 Page 97 Item 2
allows

CPQ.82 Page 97 Item 3
are capable of automatically changing sides

CPQ.83 Page 98 Item 1
still uses

CPQ.84 Page 98 Item 2
appears

CPQ.85 Page 98 Item 3
is

CPQ.86 Page 99 Item 1
responds immediately and provides.

CPQ.87 Page 99 Item 2
lowercase only

CPQ.88 Page 99 Item 3
contains

CPQ.89 Page 99 Item 4
codes

CPQ.90 Page 99 Item 5
change 4.6.1.4 to ... power on reset or hard reset.

CPQ.91 Page 100 Item 1
In table 43 caption, change will to shall

CPQ.92 Page 101 Item 1
The text ahead of table 44 says the commands shall not move the selected disc into the play position. Table 44's caption says they "should not cause delayed loads to occur." These should say the same thing, and agree on should vs. shall

CPQ.93 Page 102 Item 1
returns

CPQ.94 Page 103 Item 1
are performed by the

CPQ.95 Page 103 Item 2
cases

CPQ.96 Page 103 Item 3
is

CPQ.97 Page 103 Item 4
The meaning is unclear. Maybe:
the logical unit attempts a conventional READ of the data

CPQ.98 Page 103 Item 5
In 4.7.3, remove the in the first sentence. Add the in the second sentence before "defect list."

CPQ.99 Page 105 Item 1
remove the colon

CPQ.100 Page 105 Item 2
looks

CPQ.101 Page 105 Item 3
reword:
needs to treat a logical unit differently...
This sentence seems redundant with the first sentence, so perhaps can be removed.

CPQ.102 Page 105 Item 4
remove comma

CPQ.103 Page 105 Item 5
is

CPQ.104 Page 105 Item 6
allows

CPQ.105 Page 105 Item 7
detects and configures

CPQ.106 Page 105 Item 8
in 5.2 header, change FEATURES to Features

CPQ.107 Page 106 Item 1
are necessary

CPQ.108 Page 106 Item 2

In 5.2.2 change "shall indicate" to "indicates" (two places)

CPQ.109 Page 108 Item 1

The end of Table 50 is truncated in PDF.

CPQ.110 Page 108 Item 2

In Table 50, add 0 as the left digit to 108h, 109h, 10Ah, and 10Bh to match the other entries in the table.

CPQ.111 Page 112 Item 1

In Table 56, is the Application column trying to reference the annexes?

CPQ.112 Page 112 Item 2

If these fields in table 55 and similar tables are required to be set to certain values, then indicate those values in the table (as was already done for the Feature Code field).

Version = 0 | Persistent = 1 | Current = 1

Additional Length = 4

Then, the text repeating this is not necessary.

CPQ.113 Page 112 Item 3

(Above table 56) There could be more than one physical interface between the initiator and logical unit. For example, a Fibre Channel to parallel SCSI bridge. A SCSI target device doesn't know anything but its own physical interface. That is what should be reported here.

CPQ.114 Page 113 Item 1

In 5.3.3 remove commas from "Support, for the Feature, is enabled"

CPQ.115 Page 116 Item 1

After table 63, change "shall indicate" to "indicates"

CPQ.116 Page 116 Item 2

After table 63, change "that" to "whether the"

CPQ.117 Page 119 Item 1

In table 69, bits 7:2 of byte 4 are unlabeled

CPQ.118 Page 124 Item 1

After table 76, change "shall indicate" to "indicates"

CPQ.119 Page 130 Item 1

The bottom of table 86 is truncated in PDF.

CPQ.120 Page 132 Item 1

change : to --- to match other table caption formats

CPQ.121 Page 132 Item 2

in 5.3.18, change must to shall

CPQ.122 Page 135 Item 1

in 5.3.20, change must to shall in the second paragraph.

In the first paragraph, "must" is ok.

CPQ.123 Page 147 Item 1

contains

CPQ.124 Page 149 Item 1

have

CPQ.125 Page 152 Item 1

does not succeed

CPQ.126 Page 158 Item 1

In section 5.4.1 and sections that follow, ensure each Profile number ends in h so they use the same format..In 5.4.1, change "Profile 2" to "Profile 2h", for example.

CPQ.127 Page 158 Item 2
Add a cross reference to 5.3.1 (Feature 0000h) which contains the list of profiles.

CPQ.128 Page 170 Item 1
in 5.4.13, change "must be" to "is"

CPQ.129 Page 175 Item 1
includes

CPQ.130 Page 175 Item 2
In the table 159 header, change "Size" to "Size in bytes" or "Bytes"

CPQ.131 Page 176 Item 1
In 5.5.3 change "bitis" to 'bit is"

CPQ.132 Page 177 Item 1
effect

CPQ.133 Page 180 Item 1
The end of table 161 is truncated on each page in PDF.

CPQ.134 Page 181 Item 1
effect

CPQ.135 Page 182 Item 1
are used if

CPQ.136 Page 183 Item 1
The end of table 163 is truncated in PDF.

CPQ.137 Page 187 Item 1
is

CPQ.138 Page 187 Item 2
lowercase this

CPQ.139 Page 189 Item 1
remove will.

CPQ.140 Page 191 Item 1
delays

CPQ.141 Page 194 Item 1
shall not

CPQ.142 Page 195 Item 1
The end of Table 177 is truncated in PDF.

CPQ.143 Page 195 Item 2
In table 177, fix centering of Buffer Size Supported text

CPQ.144 Page 195 Item 3
In table 177, bytes 14 and 15 should be either obsolete or reserved but cannot be both.

CPQ.145 Page 196 Item 1
A value of zero indicates that the...

CPQ.146 Page 196 Item 2
A value of one indicates that the...

CPQ.147 Page 196 Item 3
is

CPQ.148 Page 196 Item 4
is

CPQ.149 Page 196 Item 5

has

CPQ.150 Page 196 Item 6
is

CPQ.151 Page 197 Item 1
shall not

CPQ.152 Page 197 Item 2
shall not

CPQ.153 Page 197 Item 3
powers

CPQ.154 Page 197 Item 4
powers

CPQ.155 Page 197 Item 5
mixed case Allow State
to match Prevent State below
(make them consistent throughout the document)

CPQ.156 Page 197 Item 6
does not

CPQ.157 Page 197 Item 7
contains

CPQ.158 Page 197 Item 8
Are these bits "21, 22, 23" or "23, 22, 21"? Or "7, 6, 5"?
SCSI standards usually order bits high to low when describing
multi-bit fields. The table defining the field is organized by
bytes, so 21-23 is out of range and 5-7 or 7-5 should be
used instead.

CPQ.159 Page 198 Item 1
Create a table out of this field and double-check the endianness
(does bit 4=0, bit 5=1 represent BCK of 16 or 24?) Order the
bits 5:4 in the new table.

CPQ.160 Page 199 Item 1
The Rotation Control field is shown in table 179 as being 3 bits
wide. Table 180 only shows two bits worth of values for it, and
doesn't indicate which bits to use.

CPQ.161 Page 200 Item 1
After table 171, convert the LBA Space values into a table or
phrase it in a paragraph.

CPQ.162 Page 201 Item 1
requires

CPQ.163 Page 201 Item 2
Isn't this a protocol requirement (e.g. ATAPI), not a logical unit
implementation requirement?

CPQ.164 Page 202 Item 1
In Table 182, fix the broken Word cross references for
READ HEADER and READ MASTER CUE.

CPQ.165 Page 202 Item 2
Table 182 is truncated in PDF.

CPQ.166 Page 213 Item 1
Table 196 is truncated in PDF

CPQ.167 Page 213 Item 2
Table 195 is truncated in PDF.

CPQ.168 Page 214 Item 1

exists

CPQ.169 Page 216 Item 1
shall not

CPQ.170 Page 216 Item 2
shall not

CPQ.171 Page 216 Item 3
shall not

CPQ.172 Page 217 Item 1
that do

CPQ.173 Page 217 Item 2
remove) to go with previous note

CPQ.174 Page 218 Item 1
is
or
shall be

CPQ.175 Page 218 Item 2
terminates with GOOD status and the format continues in the background.

CPQ.176 Page 218 Item 3
terminates with GOOD status and performs all format-writing functions
in the background.

CPQ.177 Page 219 Item 1
ensures

CPQ.178 Page 219 Item 2
does not

CPQ.179 Page 219 Item 3
remove block

CPQ.180 Page 219 Item 4
are

CPQ.181 Page 219 Item 5
restarts

CPQ.182 Page 219 Item 6
In table 200, move Progress and Indication to the same line.

CPQ.183 Page 219 Item 7
change 6.1.3.15.3 text to "A power-on reset or hard reset..."

CPQ.184 Page 220 Item 1
change : to --- to match other table caption formats

CPQ.185 Page 220 Item 2
After table 201, change cleared to set.

CPQ.186 Page 221 Item 1
change : to --- to match other figure caption formats

CPQ.187 Page 221 Item 2
In section 6.1.3.16.2, remove the "us" informal text

CPQ.188 Page 222 Item 1
are

CPQ.189 Page 222 Item 2
terminates with GOOD status and performs all format-writing functions
in the background.

CPQ.190 Page 222 Item 3

change : to --- to match other table caption formats

CPQ.191 Page 223 Item 1
This block of text should be a table with a table caption

CPQ.192 Page 223 Item 2
In 6.1.3.16.6, change "Important note" to "Note" or upgrade it from a note to normal text.

CPQ.193 Page 223 Item 3
In 6.1.3.16.6, change must to shall or should (two places)

CPQ.194 Page 223 Item 4
in 6.1.3.16.6, change must to shall

CPQ.195 Page 223 Item 5
in 6.1.3.16.8, change must to shall (3 places)

CPQ.196 Page 226 Item 1
are
or
shall be

CPQ.197 Page 233 Item 1
after table 220, change font of state

CPQ.198 Page 235 Item 1
The end of table 225 is truncated in PDF.

CPQ.199 Page 236 Item 1
after table 227, change "media event, must be" to "media event shall be"

CPQ.200 Page 241 Item 1
may be

CPQ.201 Page 242 Item 1
The end of table 241 is truncated in PDF.

CPQ.202 Page 248 Item 1
in 6.1.7 change Bus Device Reset to "hard reset"

CPQ.203 Page 248 Item 2
in 6.1.7 change "Power On" to "power-on reset"

CPQ.204 Page 251 Item 1
contains

CPQ.205 Page 251 Item 2
In table 258, correct the use of MSB/LSB and the terms Low and High. (LSB) should be bit 0 of byte 0; (MSB) should be over bit 2 of byte 1 (my interpretation).

CPQ.206 Page 251 Item 3
after table 259 change "Power On or Bus Device Reset" to "power-on reset or hard reset"

CPQ.207 Page 254 Item 1
continue to play while other commands may be processed by the logical unit.

CPQ.208 Page 254 Item 2
remove will

CPQ.209 Page 258 Item 1
In table 271, add parenthesis around MSB and LSB to match rest of document

CPQ.210 Page 260 Item 1
In table 274, remove The from "The Length of Buffer".

CPQ.211 Page 262 Item 1
shall be

CPQ.212 Page 262 Item 2
remove extra period

CPQ.213 Page 262 Item 3
are not

CPQ.214 Page 263 Item 1
shall

CPQ.215 Page 263 Item 2
shall

CPQ.216 Page 263 Item 3
shall

CPQ.217 Page 263 Item 4
shall

CPQ.218 Page 263 Item 5
shall

CPQ.219 Page 263 Item 6
information shall be returned.

CPQ.220 Page 263 Item 7
Change to "Both"

CPQ.221 Page 263 Item 8
shall

CPQ.222 Page 264 Item 1
shall

CPQ.223 Page 264 Item 2
remove extra period

CPQ.224 Page 264 Item 3
shall

CPQ.225 Page 264 Item 4
shall

CPQ.226 Page 264 Item 5
shall

CPQ.227 Page 264 Item 6
shall

CPQ.228 Page 264 Item 7
shall

CPQ.229 Page 264 Item 8
shall

CPQ.230 Page 264 Item 9
shall

CPQ.231 Page 264 Item 10
Sub-channel data shall not be returned.

CPQ.232 Page 264 Item 11
is

CPQ.233 Page 264 Item 12
shall be

CPQ.234 Page 264 Item 13

shall be

CPQ.235 Page 264 Item 14
shall

CPQ.236 Page 264 Item 15
shall

CPQ.237 Page 265 Item 1
remove will

CPQ.238 Page 265 Item 2
shall cause

CPQ.239 Page 267 Item 1
are

CPQ.240 Page 267 Item 2
capability (see Table 177) then

CPQ.241 Page 267 Item 3
stops
(remove the shall)

CPQ.242 Page 267 Item 4
stops, the Logical Unit shall generate a non-recoverable error with ASCQ

CPQ.243 Page 267 Item 5
shall.

CPQ.244 Page 268 Item 1
remove will

CPQ.245 Page 270 Item 1
shall

CPQ.246 Page 271 Item 1
in 6.1.16, change must to shall
(2 places)

CPQ.247 Page 273 Item 1
In table 292, format the field as "Block Length in Bytes = 2048d" to
match other tables in the document.

CPQ.248 Page 275 Item 1
shall

CPQ.249 Page 276 Item 1
In table 295, LSB and MSB are used inconsistent with other uses in
the document.
Usually LSB means least significant bit and MSB means most significant
bit. Here, they are being used as least significant BYTE and
most significant BYTE.
Change to this format to match other tables:
Byte 4: Number of Sessions (Lower) (LSB)
Byte 9: (MSB) Number of Sessions (Upper)
Make similar changes for bytes 5/10 and 6/11.

CPQ.250 Page 277 Item 1
shall

CPQ.251 Page 277 Item 2
shall

CPQ.252 Page 283 Item 1
subsections 1-6 do not show up in the table of contents. Subsection 7 does.

CPQ.253 Page 283 Item 2
In table 305 change End to Ending to match Starting just above (two places)

CPQ.254 Page 283 Item 3
in table 304 and following tables, either use
Format = or Format field = consistently.

CPQ.255 Page 283 Item 4
in 6.1.19.1, remove () or add the format name being referred to

CPQ.256 Page 283 Item 5
in 6.1.19.1, change must to shall

CPQ.257 Page 290 Item 1
in table 318, add parenthesis around MSB to LSB

CPQ.258 Page 291 Item 1
in table 319, add parenthesis around MSB and LSB

CPQ.259 Page 291 Item 2
in 6.1.19.7, change must to shall

CPQ.260 Page 293 Item 1
in table 323, move MSBs to the left and LSBs to the right
so they align with bits 7 and 0

CPQ.261 Page 306 Item 1
in table 343, change Paramter to Parameter

CPQ.262 Page 311 Item 1
in table 350, move LSB to the right to line up under bit 0

CPQ.263 Page 313 Item 1
is

CPQ.264 Page 315 Item 1
which

CPQ.265 Page 317 Item 1
shall

CPQ.266 Page 318 Item 1
which

CPQ.267 Page 318 Item 2
the starting

CPQ.268 Page 318 Item 3
shall.

CPQ.269 Page 318 Item 4
shall

CPQ.270 Page 318 Item 5
shall

CPQ.271 Page 318 Item 6
which

CPQ.272 Page 320 Item 1
which

CPQ.273 Page 321 Item 1
in 6.1.22.2.4, change must to shall

CPQ.274 Page 324 Item 1
in 6.1.22.3.2, change must to shall

CPQ.275 Page 330 Item 1
the end of table 374 is truncated in PDF

CPQ.276 Page 335 Item 1
in table 382, correct use of MSB and LSB.

2: Track Number (Lower Byte) (LSB)
3: Session Number (Lower Byte) (LSB)
32: (MSB) Track Number (Upper Byte)
33: (MSB) Session Number (Upper Byte)

CPQ.277 Page 340 Item 1
equals

CPQ.278 Page 342 Item 1
ending with

CPQ.279 Page 342 Item 2
ending with a

CPQ.280 Page 342 Item 3
shall

CPQ.281 Page 342 Item 4
the beginning.

CPQ.282 Page 342 Item 5
the damaged

CPQ.283 Page 343 Item 1
In table 390, remove "Reserved or" from "Reserved or Logical
Block Address". Handle that in the text below.

CPQ.284 Page 344 Item 1
Below table 391, remove "Reserved /" and just call
the field "Logical Block Address."

CPQ.285 Page 345 Item 1
The KEY1

CPQ.286 Page 345 Item 2
is also

CPQ.287 Page 349 Item 1
in 6.1.27, fix font used by the word "track" (2 places)

CPQ.288 Page 353 Item 1
which

CPQ.289 Page 353 Item 2
shall

CPQ.290 Page 353 Item 3
provides good

CPQ.291 Page 353 Item 4
format this:
a) Forward scan: play ... ; and,
b) Reverse scan: play

CPQ.292 Page 353 Item 5
delete. CHECK CONDITIONS can only be returned when a command is
active. The error is not necessarily related to that command.

CPQ.293 Page 354 Item 1
is

CPQ.294 Page 361 Item 1
This table caption doesn't seem to match the contents of the table.
The table should probably be removed. References to tables A.1 and
A.2 can be included in the text.

CPQ.295 Page 364 Item 1
after table 432, change must to shall.
Remove "with" too.

CPQ.296 Page 365 Item 1
The end of table 433 is truncated in PDF.

CPQ.297 Page 368 Item 1
shall

CPQ.298 Page 371 Item 1
is

CPQ.299 Page 375 Item 1
do

CPQ.300 Page 375 Item 2
shall

CPQ.301 Page 377 Item 1
normally reads

CPQ.302 Page 379 Item 1
The end of table 457 is truncated in PDF.

CPQ.303 Page 383 Item 1
shall

CPQ.304 Page 383 Item 2
shall

CPQ.305 Page 386 Item 1
indicates

CPQ.306 Page 391 Item 1
In Table A.1, table headers Sense Key and ASCQ wrap on some pages
but are fine on some other pages.

CPQ.307 Page 391 Item 2
The bottom of most pages of Table A.1 is truncated in the PDF file.

CPQ.308 Page 394 Item 1
Table A.1 Sense Key, ASCs 34 and 35 are missing the Sense Key value

CPQ.309 Page 397 Item 1
table truncated in PDF

CPQ.310 Page 397 Item 2
Table A.2, A.3, A.4, and A.5 Type column header missing

CPQ.311 Page 398 Item 1
Table A.2 Sense Key 3? ASCs 34 and 35 are missing the Sense Keys.

CPQ.312 Page 402 Item 1
Section B.2.1 use "Definitions" rather than "Terms" to match
the rest of the document

CPQ.313 Page 404 Item 1
The Annex C header line is in the Caption style instead of
Header style, and thus gets included in the
Table of Tables rather than the Table of Contents.

CPQ.314 Page 404 Item 2
Remove SBP-2 from the C.1 title "SBP-2 Definitions"

CPQ.315 Page 404 Item 3
The SBP-2 annex doesn't have a reset mapping section like the
ATAPI, FCP and SCSI annexes

CPQ.316 Page 405 Item 1
ignores

CPQ.317 Page 406 Item 1
add caption

CPQ.318 Page 406 Item 2
add caption

CPQ.319 Page 406 Item 3
Remove (normative) from sections C.2.3, C.3, etc. All of annex C is normative.

CPQ.320 Page 407 Item 1
add caption

CPQ.321 Page 408 Item 1
There should be a table or figure caption on this picture.

CPQ.322 Page 409 Item 1
generates

CPQ.323 Page 409 Item 2
FCP-2 is finished so this should probably refer to that standard instead of FCP.

CPQ.324 Page 410 Item 1
Logical Units shall?
This doesn't sound right. Targets connect to the service delivery subsystem, not logical units.
How about deleting E.2 entirely?

CPQ.325 Page 410 Item 2
has these effects:

CPQ.326 Page 410 Item 3
The LOGICAL UNIT RESET function resets an individual Logical Unit. The first sentence of E.4.3 is incorrect - "the TARGET RESET function may reset a Logical Unit individually".
The second sentence is also misleading: "When an initiator requires a reset of all Logical Units connected to the bus, the initiator must issue the TARGET RESET task management request to every Logical Unit." It could issue a TARGET RESET to every target, or a LOGICAL UNIT RESET to every Logical Unit.

CPQ.327 Page 410 Item 4
the last sentence in E.4.3 is true, but ignores the effects of a TARGET RESET on other Logical Units and other parts of the target device.

CPQ.328 Page 410 Item 5
In E.1 change SCSI Primary Command Set (SPC-2) to SCSI Primary Command Set - 2 (SPC-2)

CPQ.329 Page 410 Item 6
Is annex E intended to be for parallel SCSI only? If not, it overlaps with the FCP and SBP-2 annexes, since they too are SCSI protocols. If so, add references to SPI-3 or SPI-4 and remove the SAM, SPC-2, and SBC references (or make them the same as used in the FCP and SBP-2 chapters)

CPQ.330 Page 411 Item 1
In section E.4.5, change the font of shall

CPQ.331 Page 411 Item 2
In table E.1, change the second Hard Reset row to:
Reset event in the service delivery subsystem (e.g. RESET signal assertion in SCSI Parallel Interface)
Remove the "SPI Reset Signal" row.

CPQ.332 Page 411 Item 3
I don't think ABORT TASK SET and CLEAR TASK SET map to what MMC-3 calls Device Reset.
Logical Unit Reset is probably a better fit. In fact you might want to rename "Device Reset" to "Logical Unit Reset" if you agree.

CPQ.333 Page 412 Item 1
Table F.1 Power Consumption header wraps

CPQ.334 Page 415 Item 1
remove will

CPQ.335 Page 415 Item 2
tables are renumbered for each annex. Figures should be the same.

CPQ.336 Page 417 Item 1
remove will

CPQ.337 Page 419 Item 1
In section G.1 List of SCSI commands, upgrade all the SPC references to SPC-2. Consider upgrading SBC references to SBC-2.

CPQ.338 Page 419 Item 2
In Table G.1, is the reference to SEEK(6) (per SCSI-2) still necessary?

CPQ.339 Page 419 Item 3
The command name is STOP START UNIT

CPQ.340 Page 419 Item 4
In Table G.1, the command name should be PREVENT ALLOW MEDIUM REMOVAL (no / between PREVENT and ALLOW)

CPQ.341 Page 419 Item 5
In Table G.1, add RECEIVE COPY RESULTS, 84h, 0, SPC [or SPC-2]

CPQ.342 Page 419 Item 6
Add REPORT DEVICE IDENTIFIER, A3h/05h, 0, SPC-2

CPQ.343 Page 419 Item 7
Add REPORT LUNS, A0h, M(?), SPC-2

CPQ.344 Page 419 Item 8
Add SET DEVICE IDENTIFIER, A4h/06h, 0, SPC-2

CPQ.345 Page 419 Item 9
The bottom of Table G.1 is truncated, hiding whatever follows VERIFY (10).

CPQ.346 Page 419 Item 10
In Table G.1 X means device type specific. In SPC-2, X means see the SPC-2 text for requirement details; Z means device type specific. You may wish to change the Xs to Zs in MMC-3 to match SPC-2.

CPQ.347 Page 419 Item 11
In Table G.1, get rid of the obsolete commands:
COMPARE
COPY
COPY AND VERIFY

CPQ.348 Page 422 Item 1
remove will

CPQ.349 Page 422 Item 2
remove will

CPQ.350 Page 422 Item 3
completes

CPQ.351 Page 422 Item 4
is

CPQ.352 Page 424 Item 1
There should be a sentence introducing each table.

CPQ.353 Page 429 Item 1

which

CPQ.354 Page 429 Item 2
this is a table not a figure

CPQ.355 Page 429 Item 3
table J.xx.

CPQ.356 Page 429 Item 4
After Table J.2 there is a phrase "used for an extended application (TBD)."
In general TBDs don't belong in final versions of standards.
In this case something like "used for an extended application not defined in this standard" might suffice.

CPQ.357 Page 429 Item 5
Reword this text following table J.2. If Track Number Indicator is really a bit field called Extension Flag and a 7-bit field called Track Number Indicator, name them that way.

CPQ.358 Page 429 Item 6
after figure J.51, delete the (MSB) text after Bit 7.

CPQ.359 Page 431 Item 1
lowercase example

CPQ.360 Page 431 Item 2
Delete the first paragraph in K.1.

CPQ.361 Page 431 Item 3
In annex K, get rid of we/us terminology and make it impersonal.

CPQ.362 Page 431 Item 4
In Section K, add Table caption for the MSF/LBA/Significance table and a reference to it in the text.

CPQ.363 Page 432 Item 1
lowercase command

CPQ.364 Page 432 Item 2
lowercase command

CPQ.365 Page 432 Item 3
In Section K.1.1, add a table caption to the table and a reference to it in the text.

CPQ.366 Page 433 Item 1
lowercase command

CPQ.367 Page 433 Item 2
lowercase command

CPQ.368 Page 433 Item 3
In Section K.1.2, add a table caption to the table and a reference to it in the text.

CPQ.369 Page 434 Item 1
lowercase command

CPQ.370 Page 434 Item 2
lowercase command

CPQ.371 Page 434 Item 3
In Section K.1.3, add a table caption to the table and a reference to it in the text.

CPQ.372 Page 435 Item 1
lowercase command

CPQ.373 Page 435 Item 2
lowercase command

CPQ.374 Page 435 Item 3
In Section K.1.4, add a table caption to each table and a reference to each table in the text.

CPQ.375 Page 435 Item 4
The K.1.4.1 section header looks like a table caption.

CPQ.376 Page 436 Item 1
The K.1.4.2 section header looks like a table caption.

CPQ.377 Page 439 Item 1
lowercase commands

CPQ.378 Page 439 Item 2
lowercase command

CPQ.379 Page 439 Item 3
lowercase command

CPQ.380 Page 440 Item 1
use mixed case: Legacy considerations

CPQ.381 Page 440 Item 2
combinations of [no colon]

CPQ.382 Page 440 Item 3
remove will
or change to 'do'

CPQ.383 Page 440 Item 4
sees

CPQ.384 Page 440 Item 5
In K.2, add a table caption and a reference to the table.

CPQ.385 Page 441 Item 1
initially sees

CPQ.386 Page 441 Item 2
remove will

CPQ.387 Page 441 Item 3
does

CPQ.388 Page 441 Item 4
is

CPQ.389 Page 441 Item 5
presents

CPQ.390 Page 442 Item 1
reports.

CPQ.391 Page 443 Item 1
simply disallows

Comments attached to No ballot from Mr. Peter Johansson of
Congruent Software, Inc.:

Page number references, when used, are to the page number that appears in the
footer, NOT to the internal page number within the PDF file.

1. References to Serial Bus should be regularized throughout. I suggest

adopting the term "IEEE 1394" and, in the normative references clause, explain that this precise phrase "shall be understood as a reference to IEEE Std 1394-1995 as amended by IEEE Std 1394a-2000." Note the proper form for IEEE citations.

2. Strike IEEE P1394a from the "references under development" section.
3. A bibliographic reference to draft standard IEEE P1394b should be added. It would be worth noting that devices that use the extensions in IEEE P1394b may be compliant with MMC-3 i.e., no future changes in MMC are anticipated as a consequence of the eventual approval of IEEE P1394b as a standard.
4. Delete definition 3.1.4, algorithm type. It's so generic as to lose its usefulness.
5. Definition 3.1.37, "de-icing" should not be capitalized. It is used (properly) elsewhere without capitals.
6. Is the definition of 3.1.58, "format", so particular to MMC that it merits inclusion? Take it out.
7. Definition 3.1.118, "track relative logical address", is nowhere referenced in the document. Delete it.
8. On page 36, Acrobat reported an internal PDF error and was unable to display some information. I have no way of knowing if critical parts of the document have escaped review.
- 9 On page 251, the capitalization of "command packet" is inconsistent with its use elsewhere.
10. On page 269, it is difficult to decipher table 323. Is this meant to be one table or two? The byte numbering resets to zero in the middle.
11. The draft standard is marred throughout by numerous errors in its typography: incomplete or truncated figures and tables, omissions of header information that may or may not be intentional, etc., etc. Because I am not as familiar with the technical material as might be, it is difficult for me to assess the cumulative affect of these errors in presentation. It's my opinion, though, that a subsequent letter ballot is warranted after their correction.

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

ENDL 001
Global

There is no consistent capitalization of "command". Sometimes it is "MUTILATE DISK Command" other times it is "MUTILATE DISK command". The correct capitalization is the latter and "MUTILATE DISK Command" should be changed throughout.

ENDL 002
Global

Starting on PDF page 26 the titles on all the even numbered PDF pages have revision 7 instead of revision 9.

ENDL 003
Global

On PDF Page 55, what is "7/27/00", perhaps July 27, 2000? I cannot find a description of this notation in the conventions subclause (3.2). The notation or several variants of it appear to be sufficiently similar to common usage date notation that I suggest that a single notation be adopted such that it is well differentiated from date notation. Last, but by no means least, I suspect that the numbers 7, 27, and 00 are in

fact hexadecimal numbers and should be 7h, 27h, and 00h, respectively, according to the conventions described in 3.2. Warning, this notation is extremely common, this is a big problem.

ENDL 004

Global

On PDF Page 239, where do I found the number code value for "DOES NOT"? Never use all capital letters for emphasis.

ENDL 005

Global

Please bring all subclause headings to the left margin or indent the body text for the subclause as much as the heading. It is very difficult to follow the text flow when the heading is indented and the body is not. One example of an indented heading is "6.1.22.2.1. General Case for CD" on PDF Page 320. Many more examples were noted on pages subsequent to PDF Page 320.

ENDL 006

Global

On PDF Page 443, 'behaviour' is spelled 'behavior'. Run the entire document through a spelling checker.

ENDL 007

PDF Page 25

Change 'command mapping and delivery vehicle' to 'transport protocol'

ENDL 008

PDF Page 25

Bullet 3) near the bottom of the page seems to be an objective of the SCSI Architecture not of MMC-3.

ENDL 009

PDF Page 25

Why is the list on PDF page 25 numbered? There appears to be no ordering constraints so the nominal SCSI style would be to letter the list entries.

ENDL 010

PDF Page 25

The revision number in the lined title is 7 not 9.

ENDL 011

PDF Page 28

There appears to be more than one acronym in clause 3, so having the plural "acronyms" in the title would seem appropriate.

ENDL 012

PDF Page 28

Most acronym definitions use the format "TLA (Three Letter Acronym) - an acronym consisting of three letters." ADIP, ATIP, bcd, RPC, and possibly others fail to follow this style. Since they seem to be in the minority, they should be changed.

ENDL 013

PDF Page 29

Are CPPM and CPRM not acronyms for something? They certainly are unlikely to be English words as that have no vowels.

ENDL 014

PDF Page 29

The definition of EAN explains where EANs are allocated, but not what EANs are. This does not seem appropriate for a glossary.

ENDL 015

PDF Page 30

Is EFM an acronym for something? It's not listed in the glossary.

ENDL 016

PDF Page 31

Is MRW an acronym for something? It's not listed in the glossary.

ENDL 017

PDF Page 32

The entry for UPC names the controlling authority for the entity but says nothing about what a UPC is. A description of UPC seems to be appropriate for a glossary.

ENDL 018

PDF Page 34

The first three sentences in the last paragraph on PDF page 10 describe data in the MODE SENSE Block Descriptor. Then the last two sentences say that the Block Descriptor is illegal in ATAPI and obsolete in SCSI. Generally, when SCSI standards identify an obsolete field they do not describe the field. The description is limited to something like "The contents of the Mode Sense block descriptor field are obsolete in MMC-3, described in previous versions of this standard."

ENDL 019

PDF Page 37

"The subsequent execution of a REQUEST SENSE command shall return the deferred error sense information." This statement is not true for Fibre Channel devices and is unlikely to be true for FireWire devices. Many newer protocols return sense data with the CHECK CONDITION status using a mechanism called "autosense". Recommend rewording the sentence to something along the lines of "The sense data associated with the CHECK CONDITION status shall contain the deferred error sense information."

ENDL 020

PDF Page 38

UNIT ATTENTION is a sense key not a status. The phrase "UNIT ATTENTION status conditions" needs to be change to either "unit attention conditions" or "sense data with an UNIT ATTENTION sense key". There are three instances of misuse of UNIT ATTENTION in the second paragraph on this page.

ENDL 021

PDF Page 55

Change "CHECK CONDITION STATUS" to "CHECK CONDITION status". This error appears once on this page, once on PDF page 57, and twice on PDF page 439.

ENDL 022

PDF Page 55

Change "CHECK CONDITION Status" to "CHECK CONDITION status". I found approximately 42 occurrences of this error.

ENDL 023

PDF Page 55

What is "WRITE PROTECTED 1"?

ENDL 024

PDF Page 55

ASC is not an acronym in clause 3 and is not defined as an acronym in a referenced standard (e.g., SPC-2). Replace "ASC" with "additional sense code". This error occurs once on each of the following PDF pages 55, 151, 182, and 205.

ENDL 025

PDF Page 55

Change "NO ADDITIONAL SENSE DATA" to "NO ADDITIONAL SENSE INFORMATION".

ENDL 026

PDF Page 57

Why is there no line at the bottom of Table 20? Is this due to the table continuation on a second Page?

ENDL 027

PDF Page 57

For better readability, change "A target responding to a PLAY AUDIO(10) command that has a transfer length of zero, with CHECK CONDITION STATUS, and setting the sense key to ILLEGAL REQUEST does not support audio play operations." to "A target that responds to a PLAY AUDIO(10) command containing a transfer length of zero with CHECK CONDITION status and a sense key of ILLEGAL REQUEST does not support audio play operations."

ENDL 028

PDF Page 65

In the line that begins with AHOUR, AMIN ..., why is the = text not on the same line as the variables?

ENDL 029

PDF Page 66

To better use SCSI terms, change "Some Commands are allowed to generate a NOT READY check condition, and others are not." to "Some commands are allowed to generate a CHECK CONDITION status with a NOT READY sense key and others are not."

ENDL 030

PDF Page 70

The ISO/T10 format for 37856 is 37 865.

ENDL 031

PDF Page 70

The ISO/T10 format for 2048 is 2 048

ENDL 032

PDF Page 95

Change "sense code ILLEGAL REQUEST" to "sense key ILLEGAL REQUEST".

ENDL 033

PDF Page 98

"sense key" should not be capitalized except in titles and table column headings. I found approximately 6 instances of capitalization errors for "sense key" including the one at the bottom of this page.

ENDL 034

PDF Page 98

"additional sense code" should not be capitalized except in titles and table column headings.

ENDL 035

PDF Page 98

Replace the entire content of 4.6.1.1 with "Devices that support changing sides shall report a unit attention condition with an additional sense code of NOT READY TO READY, MEDIUM MAY HAVE CHANGED only for changes that involve movement of a Disc in/out of the Logical Unit. Changes of side shall not generate unit attention conditions." N.B. the changes correct wording for the use of "unit attention" and "additional sense code" and move the word "only" closer to the phrase to which it applies.

ENDL 036

PDF Page 99

In Figure 38, change ''... an "UNIT ATTENTION" ...'' to "... an unit attention condition ..."

ENDL 037

PDF Page 106

The ISO/T10 format for 65,530 is 65 530

ENDL 038

PDF Page 113

In the first paragraph after table 57, "PREVENT/ALLOW" should be "PREVENT/ALLOW MEDIUM REMOVAL".

ENDL 039

PDF Page 117

Most other mode pages are described as the "xyz mode page" but the "Read/Write Error Recovery mode page" is referred to almost universally as the "Read/Write Error Recovery page". I think "page" should be changed to "mode page". The first four occurrences of several occurrences of this problem can be found in the last two paragraphs on PDF Page 117.

ENDL 040

PDF Page 130

A line should be added at the bottom of table 86.

ENDL 041

PDF Page 131

The line at the bottom of table 89 should be a thick line as is the case for all (well most all) other tables.

ENDL 042

PDF Page 131

In table 89, "Clause" should be "Sub-Clause"

ENDL 043

PDF Page 132

In table 93 "Clause" needs to be changed to "Reference" since SBC is not a clause or a subclause.

ENDL 044

PDF Page 133

In table 95 "Clause" needs to be changed to "Reference" since SBC is not a clause or a subclause.

ENDL 045

PDF Page 135

Since it is impossible to assign a non standard usage to the comma, "CHECK CONDITION Status, INVALID ADDRESS FOR WRITE." must be changed to "CHECK CONDITION status with an additional sense code of INVALID ADDRESS FOR WRITE." Likewise, "CHECK CONDITION Status, INVALID FIELD IN CDB." must be changed to "CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB."

ENDL 046

PDF Page 135

In table 98 "Sub-Clause" needs to be changed to "Reference" since SPC(sic) is not a clause or a subclause.

ENDL 047

PDF Page 135

In Table 98 (2Fh op code), "SPC" should be changed to "SBC" since SBC defines the VERIFY(10) command not SPC.

ENDL 048

PDF Page 141

In table 108, change "Clause" to "Sub-Clause."

ENDL 049

PDF Page 143

Why are there no subclause references in tables 112 and 113?

ENDL 050

PDF Page 145

Why are there no Sub-Clause references in table 115?

ENDL 051

PDF Page 146

In table 117 "Clause" needs to be changed to "Reference" since SPC(sic) is not a clause or a subclause.

ENDL 052

PDF Page 146

In Table 117 (1Bh op code), "SPC" should be changed to "SBC" since SBC defines the START/STOP UNIT command not SPC.

ENDL 053

PDF Page 146

In table 118, change "Clause" to "Sub-Clause".

ENDL 054

PDF Page 147

In table 120, change "Clause" to "Sub-Clause".

ENDL 055

PDF Page 148

In table 122, "Clause" needs to be changed to "Reference" since SBC is not a clause or a subclause.

ENDL 056

PDF Page 148

In table 123, change "Clause" to "Sub-Clause".

ENDL 057
PDF Page 150
In table 125, "Clause" needs to be changed to "Reference" since SPC is not a clause or a subclause.

ENDL 058
PDF Page 152
In table 129, change "Clause" to "Sub-Clause".

ENDL 059
PDF Page 153
In table 131, change "Clause" to "Sub-Clause".

ENDL 060
PDF Page 156
In table 134, change "Clause" to "Sub-Clause".

ENDL 061
PDF Page 157
In table 136, change "Clause" to "Sub-Clause".

ENDL 062
PDF Page 175
In the second paragraph after table 158 and in table 159, several numbers are not in ISO/T10 format.

ENDL 063
PDF Page 178
Lines should be added to the bottom of the first page and each continuation page for table 161.

ENDL 064
PDF Page 182
The following sentence has two verbs not joined by an 'and', "If any parameters have values incompatible with the current medium, the Logical Unit shall generate a CHECK CONDITION status, a sense code of ILLEGAL REQUEST and an ASC of ILLEGAL MODE FOR THIS TRACK shall occur when a write is attempted."

ENDL 065
PDF Page 183
There should be a line at the bottom of table 163.

ENDL 066
PDF Page 183
Change "...CHECK CONDITION Status, ILLEGAL REQUEST, INVALID ADDRESS FOR WRITE." to "...CHECK CONDITION status with a sense key of ILLEGAL REQUEST and an additional sense code of INVALID ADDRESS FOR WRITE."

ENDL 067
PDF Page 184
Change "...CHECK CONDITION status, ILLEGAL REQUEST, ILLEGAL MODE FOR THIS TRACK." to "...CHECK CONDITION status with a sense key of ILLEGAL REQUEST and an additional sense code of ILLEGAL MODE FOR THIS TRACK."

ENDL 068
PDF Page 186
There is a "Notes:" with no notes following it.

ENDL 069

PDF Page 193

In table 175, change "FAILURE PREDICTION THRESHOLD - Predicted Logical Unit Failure" to "LOGICAL UNIT FAILURE PREDICTION THRESHOLD EXCEEDED" and "FAILURE PREDICTION THRESHOLD EXCEEDED - Predicted Media Failure" to " MEDIA FAILURE PREDICTION THRESHOLD EXCEEDED".

ENDL 070

PDF Page 195

There should be a line at the bottom of table 177.

ENDL 071

PDF Page 196

What is a "BUFFER OVERFLOW error"? There is no additional sense code for this.

ENDL 072

PDF Page 200

Mode Page Code 2Ch is supposed to be Vendor Specific.

ENDL 073

PDF Page 201

In table 182 "Clause" needs to be changed to "Reference" since SBC is not a clause or a subclause.

ENDL 074

PDF Page 202

In table 182 there are missing cross reference markers for the READ HEADER and READ MASTER CUE commands.

ENDL 075

PDF Page 202

There should be a line at the bottom of the second page on table 182.

ENDL 076

PDF Page 205

In "...INQUIRY` GET CONFIGURATION, GET EVENT/STATUS NOTIFICATION, V and REQUEST SENSE are among the commands..." it appears that "INQUIRY'" and "V" are commands. I suspect that these are typos.

ENDL 077

PDF Page 205

Change "...NOT READY error (Sense Key 2)." to "...NOT READY sense key." Alternatively, change all instances where sense keys are mentioned by name to include values (but I think this change is less work).

ENDL 078

PDF Page 205

Change "...CHECK CONDITION Status, NO MORE TRACK RESERVATIONS ARE ALLOWED." to "...CHECK CONDITION status with an additional sense code of NO MORE TRACK RESERVATIONS ALLOWED." N.B. The word "ARE" has been dropped from the additional sense code name.

ENDL 079

PDF Page 205

Change CONDITION Status, INVALID ADDRESS FOR WRITE." to "...CHECK CONDITION status with an additional sense code of INVALID ADDRESS FOR WRITE."

ENDL 080

PDF Page 205

Change "...sense code of LOGICAL UNIT NOT READY, and an ASC of OPERATION IN PROGRESS" to "... additional sense code of LOGICAL UNIT NOT READY, OPERATION IN PROGRESS"

ENDL 081

PDF Page 205

Change "ANSI NCITS 301, SPC" to "ANSI X3.301:1997, SPC"

ENDL 082

PDF Page 208

Change "...CHECK CONDITION Status and set sense data to ILLEGAL REQUEST, INVALID FIELD IN CDB..." to "...CHECK CONDITION status and set sense key to ILLEGAL REQUEST and the additional sense code to INVALID FIELD IN CDB..."

ENDL 083

PDF Page 208

Change "...CHECK CONDITION Status, sense code of SESSION FIXATION ERROR - INCOMPLETE TRACK IN SESSION." to "...CHECK CONDITION status with an additional sense code of SESSION FIXATION ERROR - INCOMPLETE TRACK IN SESSION."

ENDL 084

PDF Page 208

Change "...CHECK CONDITION Status, sense code EMPTY OR PARTIALLY WRITTEN RESERVED TRACK." to "...CHECK CONDITION status with an additional sense code of EMPTY OR PARTIALLY WRITTEN RESERVED TRACK."

ENDL 085

PDF Page 208

Change "... CHECK CONDITION Status, INVALID FIELD IN CDB." to "... CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB."

ENDL 086

PDF Page 209

Change "...return NOT READY status with CHECK CONDITION Status, sense code of LOGICAL UNIT NOT READY, OPERATION IN PROGRESS..." to "...return CHECK CONDITION status with a sense key of NOT READY and an additional sense code of LOGICAL UNIT NOT READY, OPERATION IN PROGRESS..."

ENDL 087

PDF Page 209

Change "...return NOT READY status with CHECK CONDITION Status, an additional sense code of ..." to "...return CHECK CONDITION status with a sense key of NOT READY and an additional sense code of..."

ENDL 088

PDF Page 209

Change "See ANSI NCITS 301 standard." to "See the ANSI X3.301:1997 SPC standard."

ENDL 089

PDF Page 209

Since neither 'NOT READY' or 'READY' is used as a sense key name, change "Closing a Track or Session shall cause a Class 1 Event when the command is issued if the Logical Unit becomes NOT READY. A Class 1 Event shall occur if the medium returns to READY or if the medium becomes un-

writable." to "Closing a Track or Session shall cause a Class 1 Event when the command is issued if the Logical Unit becomes not ready. A Class 1 Event shall occur if the medium returns to ready or if the medium becomes un-writable."

ENDL 090

PDF Page 210

In two places, change "...a CHECK CONDITION and set sense to ILLEGAL REQUEST, COMMAND SEQUENCE ERROR." to "...a CHECK CONDITION status with a sense key of ILLEGAL REQUEST and an additional sense code of COMMAND SEQUENCE ERROR."

ENDL 091

PDF Page 210

Change "WRITE PARAMETERS mode page" to "Write Parameters Mode Page" or "Write Parameters mode page". All caps for "WRITE PARAMETERS" is wrong. I've found three occurrences on this page, plus two more occurrences on PDF Page 214 and a last occurrence on PDF Page 402.

ENDL 092

PDF Page 211

In "...ANSI NCITS 301 SPC-2..." 301 is the X3 (not NCITS) number for SPC, not for SPC-2. SPC-2 does not have an NCITS number yet.

ENDL 093

PDF Page 212

Change "...CHECK CONDITION Status, 5/26/00 INVALID FIELD IN PARAMETER LIST." to "...CHECK CONDITION status with a sense key of INVALID REQUEST and an additional sense code of INVALID FIELD IN PARAMETER LIST."

ENDL 094

PDF Page 212

Change "...Sense Key set to ILLEGAL REQUEST and the Sense Code set to INVALID FIELD IN PARAMETER LIST." to "...sense key set to ILLEGAL REQUEST and the additional sense code set to INVALID FIELD IN PARAMETER LIST."

ENDL 095

PDF Page 213

There should be a line at the bottom of table 196.

ENDL 096

PDF Page 215

Change "...Write Parameter Mode Page." to "...Write Parameters Mode Page."

ENDL 097

PDF Page 215

Delete the double quotes surrounding READ FORMAT CAPACITIES Command (and make Command all lower case).

ENDL 098

PDF Page 215

Concerning "on page 6.1.20." 6.1.20 doesn't look like a page number to me.

ENDL 099

PDF Page 216

In the first paragraph on the page, "The sense key shall be set to MEDIUM ERROR and the additional sense code & qualifier set to ZONED

FORMATTING FAILED DUE TO SPARE LINKING,..." the word 'shall' seems to be in a small point size. Also, change the text to "The sense key shall be set to MEDIUM ERROR and the additional sense code set to ZONED
FORMATTING FAILED DUE TO SPARE LINKING,...".

ENDL 100
PDF Page 216
Change "6.1.20.." to "6.1.20."

ENDL 101
PDF Page 217
Change "...CHECK CONDITION Status, 5/26/00 INVALID FIELD IN PARAMETER LIST." to "...CHECK CONDITION status with a sense key of ILLEGAL REQUEST and an additional sense code of INVALID FIELD IN PARAMETER LIST."

ENDL 102
PDF Page 218
Change "...CHECK CONDITION status and set sense data to ILLEGAL REQUEST, COMMAND SEQUENCE ERROR." to "...CHECK CONDITION status and set the sense key to ILLEGAL REQUEST with an additional sense code of COMMAND SEQUENCE ERROR."

ENDL 103
PDF Page 218
Change "...CHECK CONDITION status and set sense data to NOT READY, LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..." to "...CHECK CONDITION status and the set sense key to NOT READY with an additional sense code of LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..."

ENDL 104
PDF Page 218
Why does the 2nd paragraph of 6.1.3.15.1 use "Logical unit" while the 3rd paragraph use "Logical Unit"? Most places use "Logical Unit" but there are a few that use "Logical unit". All instances of "Logical unit" should be changed to "Logical Unit".

ENDL 105
PDF Page 218
Change "...GOOD status and sense data shall be set to NO SENSE, FORMAT IN PROGRESS..." to "...GOOD status and the sense key shall be set to NO SENSE with an additional sense code of FORMAT IN PROGRESS..."

ENDL 106
PDF Page 219
Change "...GOOD status and sense data shall be set to NO SENSE, NO ADDITIONAL SENSE, NO ADDITIONAL SENSE QUALIFIER, and SKSV shall be cleared to zero." to "...GOOD status and the sense key shall be set to NO SENSE with an additional sense code of NO ADDITIONAL SENSE INFORMATION and SKSV bit shall be set to zero."

ENDL 107
PDF Page 219
Change "...CHECK CONDITION status and set sense data to NOT READY, LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..." to "...CHECK CONDITION status and set the sense key to NOT READY with an additional sense code of LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..."

ENDL 108
PDF Page 220
Change "...CHECK CONDITION status and set sense data to ILLEGAL REQUEST, COMMAND SEQUENCE ERROR." to "...CHECK CONDITION status and set the sense

key to ILLEGAL REQUEST with an additional sense code of COMMAND SEQUENCE ERROR."

ENDL 109

PDF Page 221

CONDITION status and set sense data to NOT READY, LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..." to "...CHECK CONDITION status and set the sense key to NOT READY with an additional sense code of LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..."

ENDL 110

PDF Page 222

Change "...CHECK CONDITION status and set sense data to NOT READY, LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..." to "...CHECK CONDITION status and set the sense key to NOT READY with an additional sense code of LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..."

ENDL 111

PDF Page 222

Change "...GOOD status and sense data shall be set to NO SENSE, FORMAT IN PROGRESS..." to "...GOOD status and the sense key shall be set to NO SENSE with an additional sense code of LOGICAL UNIT NOT READY, FORMAT IN PROGRESS..." N.B. the additional sense code text has been changed to match the text in SPC-2.

ENDL 112

PDF Page 222

Change "...GOOD status and sense data shall be set to NO SENSE, NO ADDITIONAL SENSE, NO ADDITIONAL SENSE QUALIFIER, and SKSV shall be cleared to zero." to "...GOOD status and the sense key shall be set to NO SENSE with an additional sense code of NO ADDITIONAL SENSE INFORMATION and SKSV bit shall be set to zero."

ENDL 113

PDF Page 225

In the 2nd paragraph on the page there are three instances of 65,536 that are not in the ISO format of 65 536.

ENDL 114

PDF Page 226

In the 1st paragraph after table 207 there is a 65,530 that is not in the ISO format of 65 530.

ENDL 115

PDF Page 233

In "...reset (issued from a Sleep state)." the word 'state' is in a small point size for no apparent reason.

ENDL 116

PDF Page 238

Change "a UNIT ATTENTION condition" to "a unit attention condition".

ENDL 117

PDF Page 238

Change "(Logical Units should not return CHECK CONDITION Status, INSUFFICIENT TIME FOR OPERATION." to "Logical Units should not return CHECK CONDITION status with an additional sense code of INSUFFICIENT TIME FOR OPERATION." N.B. Leading parenthesis is removed since it has no close parenthesis.

ENDL 118

PDF Page 238

Change "...CHECK CONDITION, sense key set to ILLEGAL REQUEST, additional sense key set to INVALID FIELD IN CDB." to "...CHECK CONDITION status with the sense key set to ILLEGAL REQUEST and the additional sense code set to INVALID FIELD IN CDB."

ENDL 119

PDF Page 239

Change "...CHECK CONDITION, sense key to ILLEGAL REQUEST, additional sense code to INVALID FIELD IN CDB." to "...CHECK CONDITION with a sense key of ILLEGAL REQUEST and additional sense code of INVALID FIELD IN CDB."

ENDL 120

PDF Page 242

There is no line at the bottom of table 241.

ENDL 121

PDF Page 243

Change "..CHECK CONDITION Status, 5/24/00 INVALID FIELD IN CDB.." to "...CHECK CONDITION status with a sense key of ILLEGAL REQUEST and additional sense code of INVALID FIELD IN CDB."

ENDL 122

PDF Page 244

Change "...CHECK CONDITION Status, INVALID FIELD IN CDB." to "...CHECK CONDITION status with a sense key of ILLEGAL REQUEST and additional sense code of INVALID FIELD IN CDB."

ENDL 123

PDF Page 245

Immediately following Table 248, "Unusable Area" is not a sentence, subclause heading, or list preamble.

ENDL 124

PDF Page 248

Change "...CHECK CONDITION being reported to the Initiator with Sense key ILLEGAL REQUEST, Sense Code INVALID FIELD IN CDB." to "...CHECK CONDITION status with a sense key of ILLEGAL REQUEST and additional sense code of INVALID FIELD IN CDB."

ENDL 125

PDF Page 248

Twice in the second to the last paragraph on the page, change "...Sense Key ILLEGAL REQUEST, Sense Code INVALID FIELD IN CDB..." to "...with a CHECK CONDITION status, a sense key of ILLEGAL REQUEST and an additional sense code of INVALID FIELD IN CDB..."

ENDL 126

PDF Page 248

Change "...with a Sense Key NOT READY and Sense Code 3Ah MEDIUM NOT PRESENT." to "...with a CHECK CONDITION status, a sense key of NOT READY, and an additional sense code of MEDIUM NOT PRESENT."

ENDL 127

PDF Page 249

Change "A UNIT ATTENTION Condition..." to "An unit attention condition..."

ENDL 128

PDF Page 251.

In "The Current LBA value..." the word "Current" is in a small point size.

ENDL 129

PDF Page 252

In "The Length of Slot Tables field.." the word phrase 'Length of Slot Tables' is in a small point size.

ENDL 130

PDF Page 253

Twice in the second paragraph after Table 263, change "...CHECK CONDITION status, COMMAND SEQUENCE ERROR." to "...CHECK CONDITION status with an additional sense code of COMMAND SEQUENCE ERROR."

ENDL 131

PDF Page 254

Change "...CHECK CONDITION status, LOGICAL BLOCK ADDRESS OUT OF RANGE." to "...CHECK CONDITION status and an additional sense code of LOGICAL BLOCK ADDRESS OUT OF RANGE."

ENDL 132

PDF Page 254

In the phrase "...The sense key shall be set..." the word 'shall' is in a small point size.

ENDL 133

PDF Page 254

Change "The Sense Key..." to "The sense key..."

ENDL 134

PDF Page 257

Change "...CHECK CONDITION status, INVALID FIELD IN CDB." to "...CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB."

ENDL 135

PDF Page 257

Change "...CHECK CONDITION status, LOGICAL BLOCK ADDRESS OUT OF RANGE. If the address is not within an audio track the command shall be terminated with CHECK CONDITION status, ILLEGAL MODE FOR THIS TRACK or INCOMPATIBLE MEDIUM INSTALLED." to "...CHECK CONDITION status with an additional sense code of LOGICAL BLOCK ADDRESS OUT OF RANGE. If the address is not within an audio track the command shall be terminated with CHECK CONDITION status with an additional sense code of ILLEGAL MODE FOR THIS TRACK or INCOMPATIBLE MEDIUM INSTALLED."

ENDL 136

PDF Page 258

Change "...CHECK CONDITION Status, ILLEGAL REQUEST, READ OF SCRAMBLED SECTOR WITHOUT AUTHENTICATION." to "...CHECK CONDITION status with a sense key of ILLEGAL REQUEST and an additional sense code of READ OF SCRAMBLED SECTOR WITHOUT AUTHENTICATION."

ENDL 137

PDF Page 259

Change "...CHECK CONDITION Status, ILLEGAL REQUEST, INVALID FIELD IN CDB." to "...CHECK CONDITION status, a sense key of ILLEGAL REQUEST and an additional sense code of INVALID FIELD IN CDB."

ENDL 138

PDF Page 262

Change "...CHECK CONDITION status, ILLEGAL MODE FOR THIS TRACK." to "...CHECK CONDITION status with an additional sense code of ILLEGAL MODE FOR THIS TRACK."

ENDL 139

PDF Page 264

Change "...CHECK CONDITION Status and a sense code of COMMAND SEQUENCE ERROR." to "...CHECK CONDITION status and an additional sense code of COMMAND SEQUENCE ERROR."

ENDL 140

PDF Page 265

Change "...CHECK CONDITION status, INVALID FIELD IN CDB." to "...CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB."

ENDL 141

PDF Page 267

Change "...non-recoverable error generated READ ERROR - LOSS OF STREAMING." to "...non-recoverable error generated with an additional sense code of READ ERROR - LOSS OF STREAMING."

ENDL 142

PDF Page 270

Change "...CHECK CONDITION status, ILLEGAL MODE FOR THIS TRACK or INCOMPATIBLE MEDIUM INSTALLED." to "...CHECK CONDITION status, and an additional sense code of ILLEGAL MODE FOR THIS TRACK or INCOMPATIBLE MEDIUM INSTALLED."

ENDL 143

PDF Page 271

Change "...CHECK CONDITION status, ILLEGAL REQUEST." to "...CHECK CONDITION status and a sense key ILLEGAL REQUEST."

ENDL 144

PDF Page 275

Change "...return NOT READY status with CHECK CONDITION Status, LOGICAL UNIT NOT READY, OPERATION IN PROGRESS." to "...return CHECK CONDITION status with a sense key of NOT READY and an additional sense code of LOGICAL UNIT NOT READY, OPERATION IN PROGRESS."

ENDL 145

PDF Page 277

The following text appears to be a footnote in Table 296: "(1) When a disc is in DVD-RW restricted overwrite mode and the last session is Intermediate state, this status code is returned." Table footnotes must appear as footer rows in the table itself, not outside the table border.

ENDL 146

PDF Page 279

Change "FF/FF/FF/FF" to "FFh/FFh/FFh/FFh" in two occurrences on this page.

ENDL 147

PDF Page 281

CONDITION status, INVALID FIELD IN CDB." to "...CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB."

ENDL 148

PDF Page 283

Change "..with an INVALID FIELD IN CDB error." to "..with an additional sense code of INVALID FIELD IN CDB."

ENDL 149

PDF Page 285

There is no line at the bottom of table 309.

ENDL 150

PDF Page 285

Change "...CHECK CONDITION status, sense code INVALID FIELD IN CDB." to "...CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB."

ENDL 151

PDF Page 286

Table 312 does not have an unbroken border surrounding all of the table's contents. This is in violation of T10 and ISO style requirements.

ENDL 152

PDF Page 286

Table 313 does not have an unbroken border surrounding all of the table's contents.

ENDL 153

PDF Page 287

Table 314 does not have an unbroken border surrounding all of the table's contents.

ENDL 154

PDF Page 288

Tables 315 and 316 do not have an unbroken border surrounding all of the tables' contents.

ENDL 155

PDF Page 290

Table 318 does not have an unbroken border surrounding all of the table's contents.

ENDL 156

PDF Page 290

Change "...CHECK CONDITION Status." to "...CHECK CONDITION status."

ENDL 157

PDF Page 291

Tables 319 and 320 do not have an unbroken border surrounding all of the tables' contents.

ENDL 158

PDF Page 291

Change "...CHECK CONDITION Status." to "...CHECK CONDITION status."

ENDL 159

PDF Page 292

Change "...CHECK CONDITION Status, INVALID FIELD IN CDB." to "...CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB."

ENDL 160
PDF Page 292
table 322 is on a different page than the table.

ENDL 161
PDF Page 292
Table 321 does not have an unbroken border surrounding all of the table's contents.

ENDL 162
PDF Page 293
Change "...CHECK CONDITION Status, INVALID FIELD IN CDB." to "...CHECK CONDITION Status with an additional sense code of INVALID FIELD IN CDB."

ENDL 163
PDF Page 293
Table 323 does not have an unbroken border surrounding all of the table's contents.

ENDL 164
PDF Page 294
Tables 324 and 325 do not have an unbroken border surrounding all of the tables' contents.

ENDL 165
PDF Page 295
Table 326 does not have an unbroken border surrounding all of the table's contents.

ENDL 166
PDF Page 297
Table 327 does not have an unbroken border surrounding all of the table's contents.

ENDL 167
PDF Page 298
In the phrase "The Media Specific field shall return information..." the word 'shall' is in bold and italics type. Change it to plain text to conform with the overall document style and with the requirements of ANSI and ISO.

ENDL 168
PDF Page 300
Table 333 does not have an unbroken border surrounding all of the table's contents.

ENDL 169
PDF Page 301
Table 334 does not have an unbroken border surrounding all of the table's contents.

ENDL 170
PDF Page 302
Table 335 does not have an unbroken border surrounding all of the table's contents.

ENDL 171
PDF Page 304
Table 339 does not have an unbroken border surrounding all of the

table's contents.

ENDL 172

PDF Page 306

In table 343, the left column heading appears to be "E Byt e".

ENDL 173

PDF Page 310

There are two unresolved cross references in the paragraph following table 349.

ENDL 174

PDF Page 316

In table 361, change the left column title from "Error" to "Error or Additional Sense Code".

ENDL 175

PDF Page 318

Change "...with an INVALID FIELD IN CDB." to "...with an additional sense code of INVALID FIELD IN CDB."

ENDL 176

PDF Page 318

Change "...shall report CANNOT READ MEDIUM - ICOMPATIBLE FORMAT." to "...shall report an additional sense code of CANNOT READ MEDIUM - INCOMPATIBLE FORMAT." Note: INCOMPATIBLE is misspelled.

ENDL 177

PDF Page 319

Table 364 does not have an unbroken border surrounding all of the table's contents.

ENDL 178

PDF Page 320

Table 365 does not have an unbroken border surrounding all of the table's contents.

ENDL 179

PDF Page 323

Table 367 does not have an unbroken border surrounding all of the table's contents.

ENDL 180

PDF Page 325

Table 368 does not have an unbroken border surrounding all of the table's contents.

ENDL 181

PDF Page 328

Table 373 does not have an unbroken border surrounding all of the table's contents.

ENDL 182

PDF Page 330

Table 374 does not have an unbroken border surrounding all of the table's contents and lacks a line at the bottom of the table.

ENDL 183

PDF Page 331

Why is "Highest Usable CLV Recording Speed (see Table 377)- valid only when A1 = 1." after table 376 while all the other lines like it before the table?.

ENDL 184

PDF Page 332

Change "...an INVALID FIELD IN CDB." to "...an additional sense code of INVALID FIELD IN CDB."

Table 378 does not have an unbroken border surrounding all of the table's contents.

ENDL 185

PDF Page 333

In table 379, change the left column title from "Error" to "Error or Additional Sense Code".

ENDL 186

PDF Page 334

Change "...CHECK CONDITION Status, sense code of UNABLE TO RECOVER TABLE-OF-CONTENTS." to "...CHECK CONDITION status and an additional sense code of UNABLE TO RECOVER TABLE-OF-CONTENTS."

ENDL 187

PDF Page 334

Change "...CHECK CONDITION Status, sense code L-EC UNCORRECTABLE ERROR." to "...CHECK CONDITION status and an additional sense code L-EC UNCORRECTABLE ERROR."

ENDL 188

PDF Page 334

Change "...return NOT READY status with CHECK CONDITION Status, LOGICAL UNIT NOT READY, OPERATION IN PROGRESS." to "...return CHECK CONDITION status with a sense key of NOT READY and an additional sense code of LOGICAL UNIT NOT READY, OPERATION IN PROGRESS."

ENDL 189

PDF Page 335

There is no line at the bottom of table 382.

ENDL 190

PDF Page 336

Change "...a CHECK CONDITION status to be presented." to "...a CHECK CONDITION status to be returned."

ENDL 191

PDF Page 338

Table 384 has a jagged border on its header lines and no line at the bottom of the table.

ENDL 192

PDF Page 344

Table 393 does not have an unbroken border surrounding all of the table's contents.

ENDL 193

PDF Page 345

Tables 394 and 395 do not have an unbroken border surrounding all of the tables' contents.

ENDL 194
PDF Page 345
Change "...additional sense code & qualifier..." to "...additional sense code...".

ENDL 195
PDF Page 346
Table 396 does not have an unbroken border surrounding all of the table's contents.

ENDL 196
PDF Page 346
Change "...COPY PROTECTION KEY EXCHANGE FAILURE and the additional sense code qualifier shall be set to KEY NOT PRESENT." to "...COPY PROTECTION KEY EXCHANGE FAILURE - KEY NOT PRESENT."

ENDL 197
PDF Page 346
Change "...additional sense code & qualifier..." to "...additional sense code...".

ENDL 198
PDF Page 347
Tables 397 and 398 do not have an unbroken border surrounding all of the tables' contents.

ENDL 199
PDF Page 348
Table 401 does not have an unbroken border surrounding all of the table's contents.

ENDL 200
PDF Page 349
In the phrase "...reservation of disc space for a track." the word 'track' is in a small point size.

ENDL 201
PDF Page 349
In table 404 row 1, change "CHECK CONDITION status is returned and sense is set to ILLEGAL REQUEST, COMMAND SEQUENCE ERROR" to "CHECK CONDITION status is returned and the sense key is set to ILLEGAL REQUEST with an additional sense code of COMMAND SEQUENCE ERROR"

ENDL 202
PDF Page 349
In table 404 row 4, change "...and sense is set to ILLEGAL REQUEST, INVALID FIELD IN CDB." to "...and the sense key is set to ILLEGAL REQUEST, with an additional sense code of INVALID FIELD IN CDB."

ENDL 203
PDF Page 350
Change "...CHECK CONDITION status, ILLEGAL REQUEST, COMMAND SEQUENCE ERROR." to "...CHECK CONDITION status with the sense key set to ILLEGAL REQUEST and an additional sense code of COMMAND SEQUENCE ERROR."

ENDL 204
PDF Page 350
In the phrase, "...less than three, the command shall be terminated..." the word 'shall' is in a small point size.

ENDL 205
PDF Page 350
Change "NO MORE RESERVATION IS ALLOWED." to "NO MORE TRACK RESERVATIONS ALLOWED."

ENDL 206
PDF Page 350
Change "RMA/PMA IS FULL." to "RMA/PMA IS ALMOST FULL."

ENDL 207
PDF Page 354
Change "...then CHECK CONDITION status is returned and sense key is set to ILLEGAL REQUEST, COMMAND SEQUENCE ERROR." to "...then CHECK CONDITION status is returned and the sense key is set to ILLEGAL REQUEST with an additional sense code of COMMAND SEQUENCE ERROR."

ENDL 208
PDF Page 362
Change "...CHECK CONDITION Status, CANNOT READ MEDIUM - INCOMPATIBLE FORMAT." to "...CHECK CONDITION status and the additional sense code set to CANNOT READ MEDIUM - INCOMPATIBLE FORMAT."

ENDL 209
PDF Page 362
There is no line at the bottom of table 428.

ENDL 210
PDF Page 363
Tables 429 and 430 do not have an unbroken border surrounding all of the tables' contents.

ENDL 211
PDF Page 364
The note immediately preceding 6.1.30.3 is not indented in the same way that other notes in this standard are indented.

ENDL 212
PDF Page 365
Table 433 does not have an unbroken border surrounding all of the table's contents.

ENDL 213
PDF Page 366
Tables 434 and 435 do not have an unbroken border surrounding all of the tables' contents.

ENDL 214
PDF Page 368
In the phrase "...Immediate (IMMED) bit.." the acronym 'IMMED' should be in a san-sarif font so that it matches the use of IMMED in the last sentence of the paragraph.

ENDL 215
PDF Page 369
In the sentence "Operational Request Code field contains the actual requested operation." the word 'code' is in a small point size.

ENDL 216
PDF Page 371
Tables 444 and 445 do not have an unbroken border surrounding all of the tables' contents.

ENDL 217
PDF Page 371
Change "...additional sense code & qualifier..." to "...additional sense code..."

ENDL 218
PDF Page 372.
SPC-2 calls ASC/ASCQ 6Fh/05h "DRIVE REGION MUST BE PERMANENT/REGION RESET COUNT ERROR" not "LOGICAL UNIT REGION MUST BE PERMANENT/REGION RESET COUNT ERROR". Note: if it is decided to change MMC-3 to match SPC-2, then a global search and replace is required.

ENDL 219
PDF Page 372.
Table 446 does not have an unbroken border surrounding all of the table's contents.

ENDL 220
PDF Page 372.
In the phrase "Preferred Logical Unit Regional Code is sent to the DVD Logical Unit..." the words "Preferred Logical Unit Regional Code" are in a small point size and a serif font.

ENDL 221
PDF Page 375
Change "...CHECK CONDITION Status, INVALID FIELD IN CDB..." to "...CHECK CONDITION status with an additional sense code of INVALID FIELD IN CDB..."

ENDL 222
PDF Page 379
There is no line at the bottom of table 457.

ENDL 223
PDF Page 379
Change "...CHECK CONDITION Status, INVALID FIELD IN PARAMETER LIST." to "...CHECK CONDITION status with an additional sense code of INVALID FIELD IN PARAMETER LIST."

ENDL 224
PDF Page 379
Change "...Read/Write Error Recovery page." to "...Read/Write Error Recovery mode page."

ENDL 225
PDF Page 385
Change "...the status shall be set to CHECK CONDITION, ILLEGAL REQUEST, INVALID ADDRESS FOR WRITE." to "...the command shall be terminated with a CHECK CONDITION status, the sense key shall be set to ILLEGAL REQUEST and the additional sense code set to INVALID ADDRESS FOR WRITE."

ENDL 226
PDF Page 386
Change "...CHECK CONDITION status, ILLEGAL REQUEST, INVALID ADDRESS FOR WRITE." to "...CHECK CONDITION status with a sense key of ILLEGAL

REQUEST and an additional sense code of INVALID ADDRESS FOR WRITE."

ENDL 227

PDF Page 386

Change "...CHECK CONDITION status, ILLEGAL COMMAND, INVALID FIELD IN CDB." to "...CHECK CONDITION status with a sense key of ILLEGAL COMMAND and additional sense code of INVALID FIELD IN CDB."

ENDL 228

PDF Page 386

Change "...not cause a NOT READY condition..." to "...not cause a not ready condition..."

ENDL 229

PDF Page 386

Change "CHECK CONDITION Status, LOGICAL UNIT NOT READY, LONG WRITE IN PROGRESS may exist..." to "A CHECK CONDITION status with an additional sense code of LOGICAL UNIT NOT READY, LONG WRITE IN PROGRESS may be returned..."

ENDL 230

PDF Page 386

Change "...and sense data shall be set to 05/30/10, ILLEGAL REQUEST, MEDIUM NOT FORMATTED." to "...and the sense key shall be set to ILLEGAL REQUEST with an additional sense code of CANNOT WRITE MEDIUM - UNKNOWN FORMAT." N.B. additional sense code MEDIUM NOT FORMATTED [30h/10h] is not specified in SPC-2.

ENDL 231

PDF Page 387

Change "...and sense data shall be set to 05/30/10, ILLEGAL REQUEST, MEDIUM NOT FORMATTED." to "...and the sense key shall be set to ILLEGAL REQUEST with an additional sense code of CANNOT WRITE MEDIUM - UNKNOWN FORMAT." N.B. additional sense code MEDIUM NOT FORMATTED [30h/10h] is not specified in SPC-2.

ENDL 232

PDF Page 387

Twice on this page, change "...terminate the Command with CHECK CONDITION Status, ILLEGAL REQUEST, INVALID FIELD IN CDB." to "...terminate the command with CHECK CONDITION status, a sense key of ILLEGAL REQUEST and an additional sense code of INVALID FIELD IN CDB."

ENDL 233

PDF Page 389

Change "...READ/WRITE ERROR RECOVERY PAGE." to "...Read/Write Error Recovery mode Page."

ENDL 234

PDF Page 389

Change "...VERIFY ERROR RECOVERY PAGE." to "...Verify Error Recovery mode page."

ENDL 235

PDF Page 389

Change "...and sense data shall be set to 05/30/10, ILLEGAL REQUEST, MEDIUM NOT FORMATTED." to "...and the sense key shall be set to ILLEGAL REQUEST with an additional sense code of CANNOT WRITE MEDIUM - UNKNOWN FORMAT." N.B. additional sense code MEDIUM NOT FORMATTED [30h/10h] is not specified in SPC-2.

ENDL 236

PDF Page 391

The bottom area of every table in Annex A is not rendered correctly on first pages, continuation Pages, and last pages of the tables.

ENDL 237

PDF Page 391

The text introducing table A.1 should include a description of what the Type column means, what values may be found in that column and what they tell the reader.

ENDL 238

PDF Page 392

Tables A.1 and A.2 contain several instances where sense key B is shown as b. Hexadecimal values are never shown in lower case, even if the trailing h has been replaced with a table note.

ENDL 239

PDF Page 394

Additional sense code MEDIUM NOT FORMATTED is not listed in SPC-2.

ENDL 240

PDF Page 395

Change "ERASE FAILURE - Incomplete erase operation detected" to "ERASE FAILURE - INCOMPLETE ERASE OPERATION DETECTED"

ENDL 241

PDF Page 395

Change "FAILURE PREDICTION THRESHOLD EXCEEDED - Predicted Media failure" to " MEDIA FAILURE PREDICTION THRESHOLD EXCEEDED"

ENDL 242

PDF Page 395

Change "FAILURE PREDICTION THRESHOLD EXCEEDED - Predicted Spare Area Exhaustion" to "SPARE AREA EXHAUSTION PREDICTION THRESHOLD EXCEEDED"

ENDL 243

PDF Page 396

Change "LOGICAL UNIT REGION MUST BE PERMANENT/REGION RESET COUNT ERROR" to "DRIVE REGION MUST BE PERMANENT/REGION RESET COUNT ERROR"

ENDL 244

PDF Page 401

Additional sense code MEDIUM NOT FORMATTED is not listed in SPC-2.

ENDL 245

PDF Page 409

Replace the sentence currently in D.2.4 with: "FCP devices always use autosense to report the sense data associated with a CHECK CONDITION status in an FCP_RSP_IU. This replaces the most common but not the only use of the REQUEST COMMAND."

ENDL 246

PDF Page 410

In the phrase, "specified in the SCSI Standard." there is an unnecessary line feed between 'the' and 'SCSI'.

ENDL 247

PDF Page 418

In the table F.3 comments column, why are some entries centered and others left justified? BTW it looks like left justified would read better in all cases.

ENDL 248

PDF Page 419

In table G.1, the description of the EXTENDED COPY command must refer to SPC-2 instead of SPC since the EXTENDED COPY command is not described in SPC.

ENDL 249

PDF Page 419

The bottom of table G.1 is not rendered correctly.

ENDL 250

PDF Page 422

Change ... "a UNIT ATTENTION is ..." to "... an unit attention condition is ..." and "... the UNIT ATTENTION ..." to "... the unit attention condition ...".

ENDL 251

PDF Page 422

Label: ENDL; Date: 4/12/2001 9:25:40 PM In the second and third paragraphs of H.4, change "... UNIT ATTENTION conditions." to "... unit attention conditions."

ENDL 253

PDF Page 422

Change "... clears the UNIT ATTENTION." to "... clears the unit attention condition."

ENDL 253

PDF Page 422

Change "... UNIT ATTENTION reporting ..." to "... unit attention condition reporting ..."

ENDL 254

PDF Page 424

In table I.1, "PREVENT/ALLOW MEDIUM" should be "PREVENT/ALLOW MEDIUM REMOVAL"

ENDL 255

PDF Page 424

In Table I.1 change the column heading "Sub-clause" to "Reference" since SPC and SBC are not subclauses.

ENDL 256

PDF Page 425

The reference for START/STOP UNIT should be SBC not SPC.

ENDL 257

PDF Page 425

The reference for VERIFY should be SBC not SPC and the command name should be VERIFY(10) not VERIFY.

ENDL 258

PDF Page 426

The reference for START/STOP UNIT should be SBC not SPC.

ENDL 259
PDF Page 426
The bottom of table I.2 is not rendered correctly.

ENDL 260
PDF Page 426
The reference for VERIFY should be SBC not SPC and the command name should be VERIFY(10) not VERIFY.

ENDL 261
PDF Page 431
The tables in Annex K do not have titles and several are not centered on the page.

ENDL 262
PDF Page 431
The ISO format for 337812 is 337 812. This is only one of several numbers that are not formatted according to the ISO rules.

ENDL 263
PDF Page 439
Change "...and set sense to ILLEGAL REQUEST, INVALID FIELD IN CDB..." to "...and set the sense key to ILLEGAL REQUEST with an additional sense code of INVALID FIELD IN CDB..."

ENDL 264
PDF Page 439
Twice in K.1.5, change "...CHECK CONDITION STATUS and sense shall be set to ILLEGAL REQUEST, LOGICAL BLOCK ADDRESS OUT OF RANGE..." to "...CHECK CONDITION status and the sense key shall be set to ILLEGAL REQUEST with an additional sense code of LOGICAL BLOCK ADDRESS OUT OF RANGE..."

ENDL 265
PDF Page 444
Why is there a blank page at the end of the dpANS?

Comments attached to Abs ballot from Mr. Edward A. Gardner of Ophidian Designs:

I do not feel I have the necessary competence to review this document.

Comments attached to YesC ballot from Mr. Paul D. Aloisi of Texas Instruments:

Tables in Annex A and G appear to be cut off by the text below the table.

Comments attached to YesC ballot from Mr. Tasuku Kasebayashi of Toshiba America Elec. Comp.:

The DVD Media does not include DVD+RW according to Mt.Fuji5 sepcification. So the following correction is needed.

4.5. DVD Model (Page46 of the mmc3r09 document)

(before correction)

The DVD Model is the description for the DVD Media (DVD-ROM,DVD-R/-RW,DVD-RAM, and DVD+RW).

(after correction)

The DVD Model is the description for the DVD Media (DVD-ROM,DVD-R/-RW,DVD-RAM) and DVD+RW.

***** End of Ballot Report *****