Doc No. T10/98-230R2

May 11, 1999

To: T10 Membership From: R.K. Roberts

Technical Editor MMC-2

Subject: Comment Resolution – Letter Ballot 98-022R0

Specific resolution and replies are attached to each of the comments received from the membership.

Comments attached to Yes ballot from Lawrence J. Lamers of Adaptec, Inc.:

Adaptec Comments on T10 Letter Ballot of MMC-2

Issue 1

The big issue is around the Prevent/Allow Medium Removal command. MMC-2 V7.0c discusses in several sections the use of the Prevent/Allow Medium Removal command and how the persistent bit must be set in order to use Get Event/Status Notification. Section 5.3.3, Table 35, goes as far as pointing to the SPC. However in the SPC, the Prevent/Allow command doesn't have the bit defined.

I Email Ron and he mentioned that he doesn't wish to duplicate efforts to redefine commands that are defined elsewhere. I then Emailed Ralph Weber and he told me that Rob Simms has a proposal in the works to fix the SPC. However, that proposal wasn't excepted by committee for some reason.

I would argue that until the SPC has been updated, that MMC-2 should define how the Prevent/Allow command should look. An implementor who doesn't take the initiative to track down the discrepancies will always get the implementation wrong. Heck, even when things are written clearly, folks still get it wrong.

RESPONSE: The PREVENT/ALLOW Command in SPC-2 will be modified to include a definition of the persistent bit.

Issue 2

The second issue is polling for ATAPI commands. The spec doesn't really explain how to do polling, nor on which commands polling should occur. In our experience, polling needs to occur on Blank, Format Unit, Close Track, Close Session, Flush Cache. I'm not sure how to get the drive vendors to agree on this. And for those manufacturers working DVD Blank, Close Track, and Close Session have no real meaning.

RESPONSE: The BLANK, FORMAT UNIT, and CLOSE TRACK/SESSION commands provide for responses when a polling function is implemented. SYNCHRONIZE CACHE responds in a normal manner to a polling command.

One other thing that bothers me is the Sync Cache command has been renamed in Mt. Fuji to be Flush Cache. Both use the same opcode, however both act quite differently. MMC-2 appears to conform closer to SCSI than Mt. Fuji is even attempting. I'd like to know what the MMC-2 editorial committee position is on this topic.

RESPONSE: There are no operational or technical differences in the two commands.

Other editorial comments:

Format Unit Command definition, Section 6.1.3, second paragraph above table 134, talks about the Format unit parameter list (see table 69), should say (see table 134).

RESPONSE: Accepted and changed

Paul Lucier 303-684-4713 plucier@btc.adaptec.com

Comments attached to Yes ballot from Ron Roberts of Apple Computer:

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

I am casting a NO vote for this reason:

CPQ 1. Annex C is missing. It should be added, or it and references to it should be removed.

RESPONSE: Accepted - Annex C is an implementation Annex like Annex B. The majority of Annex C will come from the RBC command set document that is still in review. A version of the Annex C will be distributed for review when RBC and SBP-2 workin groups have reviewed it.

The rest of the comments are not causing a NO vote. Except for number 20, they are all editorial comments.

CPQ 2. Page ii. Use John Lohmeyer's netcom address. Change other references to "symbios.com" as John directs.

RESPONSE: Accepted -

CPQ 3. Pages ix-xvii. The list of tables and figures shows that both one and two dashes are used after the table/figure number. They should be consistent. Also, ensure there is always a space after the table number (see table 374).

RESPONSE: Accepted -

CPQ 4. Page xviii. Foreward. The description of Annex D is blank.

RESPONSE: Accepted -

CPQ 5. Page 2. Section 2.2. Standards numbers should line up vertically.

RESPONSE: Accepted -

CPQ 6. Pages 2-3. Section 2.3. Shouldn't ACPI be referenced for the Power Management annex?

RESPONSE: Rejected- ACPI was not referenced or consulted for this standard.

CPQ 7. Page 3. Section 3.1.27. Definition missing for Direct-overwrite.

RESPONSE: Accepted – Definition added

CPQ 8. Page 4. Section 3.1.3. Change "that" to "which"

RESPONSE: Accepted -

CPQ 9. Page 5. Sections 3.1.35/36. Change "CD" to "DVD"

RESPONSE: Accepted -

CPQ 10. Page 6. Section 3.1.69. Remove "is"

RESPONSE: Accepted -

CPQ 11. Page 15. Section 4.2.1.2. Missing text after last word "See ".

RESPONSE: Accepted – now reads "See sub-clause 6.1.23 READ SUB-CHANNEL command

CPQ 12. Page 18. Section 4.2.2.4. Make formatting of "Mode-1 Q", "Mode2 Q", and "Mode 3 Q" consistent. RESPONSE: **Accepted** – will be "Mode-n Q"

CPQ 13. Page 18. Section 4.2.2.4. There are periods instead of spaces around "to" in TNO and INDEX definitions.

RESPONSE: Accepted -

CPQ 14. Page 18. Section 4.2.2.4. Add "The" before this sentence: "Mode-2 Q data format is shown in Figure 8." **RESPONSE: Accepted -**

CPQ 15. Page 19. Section 4.2.2.5. Change "is" to "total". "I1 - I12 define the ISRC, and total 60 bits in length." **RESPONSE:** Accepted –Changed to "I1-I12 defines the ISRC."

CPQ 16. Page 20. Section 4.2.2.6. After Figure 11, there is an underlined (after "POINT=B0".

RESPONSE: Accepted – removed underline

CPQ 17. Page 24. Table 11. Formatting differs from other tables within byte 2. Grid should still be visible.

RESPONSE: Accepted -

CPQ 18. Pages 25/27. Figure 13. Caption and picture are on separate pages.

RESPONSE: Accepted - corrected

CPQ 19. Page 28. After Table 15, add period after "number of blocks"

RESPONSE: Accepted -

CPQ 20. Page 30. Table 17. Also Table E.3. Refers to CHANGE_DEFINITION which has been removed from SPC-2. Should it remain in this spec? Also, persistent reservation commands are not listed. Should they be mentioned here?

RESPONSE: Accepted – Removed CHANGE DEFINITION from Table 17

CPQ 21. Page 64. Table 43. Different caption font from other tables in this area.

RESPONSE: Accepted -

CPQ 22. Page 65. Table 44. Extra "r" in "PvntJumprr".

RESPONSE: Accepted -

CPQ 23. Page 72. References to sub-clauses have two periods: e.g. "in sub-clause 5.2.1..". The same problem occurs elsewhere (including text after tables 64, 67, 70, 73, 78, and 81). Sometimes something like "4.1.6.," appears.

RESPONSE: Accepted -

CPQ 24. Page 88-81. Tables 86 and 89. Bytes 2 and 3 are listed multiple times with different meanings.

RESPONSE: Accepted -

CPQ 25. Page 86. Table 99. Missing sub-clause cross references for features 0003-0105h.

RESPONSE: Accepted -

CPQ 26. Page 93. Table 112. Missing space in 2048 row in "Mode2". Missing period in 2352 row after "F8h".

RESPONSE: Accepted -

CPQ 27. Page 113. Byte 17, Bit 4-5 line needs better formatting. "00 32 BCKs 01 16 BCKs" ...

RESPONSE: Accepted – Table added

CPQ 29. Page 120. Table 138 and subsequent text. FmtDATA vs. FmtData. CmpList vs. CmpLIST.

RESPONSE: Accepted -

CPQ 30. Page 123. Table 143. "IP Modifier" header split into 3 lines.

RESPONSE: Accepted -

CPQ 31. Page 127. Table 149. Different fonts or font sizes than other tables in this area.

RESPONSE: Accepted -

CPQ 32. Page 131. Table 156. Should "0 - n" be "4 - n"?

RESPONSE: Accepted -

CPQ 33. Pages 132, 244. Tables 159, 350. In Byte 1 row, "Persistent Prevented" is split into >2 lines.

RESPONSE: Accepted -

CPQ 34. Page 136. Table 170. Formatting of vertical line in Code 0h row is inconsistent.

RESPONSE: Accepted -

CPQ 35. Page 144. Table 186. "Change Mandatory" split into 3 lines.

RESPONSE: Accepted -

CPQ 36. Pages 159, 160, 164, 166. Tables 210, 211, 217, 220. In first column, some tables use ":" instead of "..." used in these tables. Other tables use nothing at all, like table 243.

RESPONSE: Accepted – All tables to use "..."

CPQ 37. Page 213. Section 6.1.24.7, before Table 299. "Error! Reference source not found."

RESPONSE: Accepted – s/b ANNEX Q

CPQ 39. Pages 218, 231, 236. Tables 306, 330 338. Notes should use superscript small font instead of "*4" format, like other tables.

RESPONSE: Accepted - changed

CPQ 40. Pages 218-219. After Table 306, missing periods after "ATS - 7" and "CTS - 7".

RESPONSE: Accepted – periods added

CPQ 41. Page 227. Table 320. Equation missing in Incremental row. Some font size problems in text after table. (I assume this is an editorial/Acrobat conversion problem, not a technical hole)

RESPONSE: Accepted – Equation to be copied from Mt Fuji3

CPQ 42. Page 238. After Table 341. Period missing after "specific error"

RESPONSE: Accepted – period added

CPQ 43. Page 241. Table 346. Caption missing closing ")".

RESPONSE: Accepted – closed caption

CPQ 44. Page 245. Table 354. Some rows are centered, some aren't.

RESPONSE: Accepted – table fixed

CPQ 45. Global. In tables throughout, some references to "Sub-clause A.1" have A.1 in bold; some do not.

RESPONSE: Accepted – all will not be bolded

CPQ 46. Page 258. "ED NOTE: " still in document.

RESPONSE: Accepted – note removed

CPQ 47. Page 260. "Synchronous cache" should be "Synchronize Cache" in 2 places.

RESPONSE: Accepted – spelling changed

CPQ 48. Page 278+. Section labels like "E 1" missing period after E ("E.1").

RESPONSE: Accepted – clause numbering corrected

CPQ 49. Page 278. Section E.1. Change ", to ," in text. **RESPONSE: Accepted** – global change incorporated

CPQ 50. Page 280. Extra underscore in "Table E.2_shows transition".

RESPONSE: Accepted – removed underscore

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

Page 18

Note 1, George Penokie, 10/22/98 11:12:52 AM Forward- the Annex D information is missing. **RESPONSE: Accepted** – information added

Page 21

Note 2, George Penokie, 10/22/98 11:16:43 AM

Section 2.1 - The reference to SPI should be to SPI-2 and there should be nor reference to SIP as SPI-2 includes SIP.

RESPONSE: Accepted – Deleted SIP and changed SPI to SPI-2

Note 3, George Penokie, 10/22/98 11:17:56 AM

Section 2.2 - The reference to SPI-2 should be removed or change to SPI-3.

RESPONSE: Accepted – changed to SPI-3

Page 24

Note 4, George Penokie, 10/22/98 11:26:38 AM

3.1.27 - There is no definition specified for direct-overwrite.

RESPONSE: Accepted – definition added

Page 28

Note 5, George Penokie, 10/22/98 11:31:06 AM Section 4.1.2 - The term 'ad-dres' should be 'address'.

RESPONSE: Accepted - fixed

Note 6, George Penokie, 10/22/98 11:38:22 AM

Section 4.1.2 and probably elsewhere: When stating the error to be reported the following format is recommended: 'CHECK CONDITION status and set the sense key to ABORTED COMMAND and the additional sense code to MESSAGE ERROR' This sentence currently states 'terminated with CHECK CONDITION, LOGICAL BLOCK ADDRESS OUT OF RANGE'. With that statement I have no idea what the sense key is supported to be.

RESPONSE: Accepted – paragraph modified as requested

Note 7, George Penokie, 10/22/98 11:40:22 AM

Section 4.1.2 - The term 'will' should not be used in a standard it is either shall, should, or may but not will.

RESPONSE: Accepted – changed to shall

Note 8, George Penokie, 10/22/98 11:44:10 AM

Section 4.1.3 It would be a good idea to add in a cross-reference to where the mode sense and flush cache commands are defined.

RESPONSE: Accepted – reference added

Note 9, George Penokie, 10/22/98 11:48:20 AM

Section 4.4 - Most of this section is already defined in the various protocol standards and should not be duplicated in a command standard. Remove it.

RESPONSE: Rejected – this standard will replace MMC1 and this information is not included anywhere else. Also the commands listed in the medium changer set are different than the ones here. The model for CD or DVD changers are different than the ones listed in other standards.

Page 30

Note 10, George Penokie, 10/22/98 11:51:24 AM

Section 4.1.4.4 - This information should be in an annex if anywhere.

RESPONSE: Accepted – An ANNEX will be added for SCSI parallel implementations.

Page 44

Note 11, George Penokie, 10/22/98 11:58:54 AM

General - If this is intended to become an IOS standard then the periods need to be changed to commas in numbers (e.g. 22.05 should be 22.05.

RESPONSE: Rejected – The WG feels the format used is much clearer to the Far East companies that read this standard.

Page 50

Note 12, George Penokie, 10/22/98 12:02:28 PM

Section 4.2.5 It would be a good idea to cross-reference to where the commands are defined.

RESPONSE: Accepted – Where it helps in understanding the text references will be added.

Page 61

Note 13, George Penokie, 10/22/98 05:31:32 PM

Table 19 - There are several bytes in this table with no definition. What are they used for?

RESPONSE: Accepted – definitions added

Note 14, George Penokie, 10/22/98 05:32:23 PM

Table 20 - There are several bytes in this table with no definition. What are they used for?

RESPONSE: Accepted – definitions added

Page 64

Note 15, George Penokie, 10/22/98 12:06:44 PM

Section 4.3.5 - This numbered list should be a lettered list (i.e. a,b,c) numbers imply order, letters do not.

RESPONSE: Accepted – letters added

Page 65

Note 16, George Penokie, 10/22/98 12:08:56 PM

Section 4.3.6.1 - Use the format described in previous comment and the hex values should be removed.

RESPONSE: Accepted -

Page 67

Note 17, George Penokie, 10/22/98 12:10:19 PM

Section 4.3.6.3 Use the format described in previous comment and the hex values should be removed

RESPONSE: Accepted -

Page 68

Note 18, George Penokie, 10/22/98 12:11:15 PM

Section 4.3.6.7 Use the format described in previous comment and the hex values should be removed

RESPONSE: Accepted -

Page 70

Note 19, George Penokie, 10/22/98 12:12:21 PM

Section 4.4 - Loose the hex code and put in cross-references to where the commands are defined.

RESPONSE: Accepted -

Page 71

Note 20, George Penokie, 10/22/98 12:13:20 PM

Section 4.4.1.3 Use the format described in previous comment and the hex values should be removed

RESPONSE: Accepted -

Page 74

Note 21, George Penokie, 10/22/98 12:14:26 PM

Section 4.4.6 Use the format described in previous comment and the hex values should be removed

RESPONSE: Accepted -

Page 79

Note 22, George Penokie, 10/22/98 01:13:34 PM

Section 5.3.1 - 1st paragraph - This '...even if none of the Profiles listed is current.' should be this '...even if none of the Profiles listed are current.'

RESPONSE: Accepted -

Page 81

Note 23, George Penokie, 10/22/98 01:17:25 PM

Section 5.3.2 - What is a queue? Is this something new or is it what is now called the 'task set'?

RESPONSE: This is a new term used it this standard as it is defined here. Text has been re-written for clarification.

Page 105

Note 24, George Penokie, 10/22/98 01:43:02 PM

table 99 - It looks like several of the cross-references are missing.

RESPONSE: Accepted – references added

Page 110

Note 25, George Penokie, 10/22/98 02:35:25 PM

Table 108 - There seems to be several cross-references missing in this table.

RESPONSE: Accepted – only those pages used by this standard are referenced.

Page 115

Note 26, George Penokie, 10/22/98 04:18:43 PM

Table 115 - Put horizontal lines between codes to help separate one codes description from the next.

RESPONSE: Accepted -

Page 126

Note 27, George Penokie, 10/22/98 04:23:08 PM

Section 5.5.7 - There is no need to duplicate information that is already in another standard. This can only lead to problems down the road. The page should reference the standard where it is defined in the same way commands that are defined in other standards are.

RESPONSE: Rejected – The information is included here for ease of reading the document by Far East companies.

Page 127

Note 28, George Penokie, 10/22/98 04:24:09 PM

Section 5.5.8 - There is no need to duplicate information that is already in another standard. This can only lead to problems down the road. The page should reference the standard where it is defined in the same way commands that are defined in other standards are.

RESPONSE: Rejected – the information is included here for ease of reading the document by Far East companies.

Page 142

Note 29, George Penokie, 10/22/98 04:29:22 PM

table 143 - The first column should be made wider so the r in Modifier doesn't move to another line.

RESPONSE: Accepted -

Page 146

Note 30, George Penokie, 10/22/98 04:32:16 PM

Section 6.1.4 If this is to be an ISO standard then big number do not have commas but rather spaces (e.g. 65 534).

RESPONSE: Rejected – This standard will be used by Far East companies that use the US versions.

Page 165

Note 31, George Penokie, 10/22/98 04:45:14 PM

Section 6.1 and probably elsewhere: When stating the error to be reported the following format is recommended: 'CHECK CONDITION status and set the sense key to ABORTED COMMAND and the additional sense code to MESSAGE ERROR' This sentence currently states 'terminated with CHECK CONDITION, LOGICAL BLOCK ADDRESS

RESPONSE: Accepted – text changed

Page 232

Note 32, George Penokie, 10/22/98 04:54:24 PM

Section 6.1.24.7 - 3rd paragraph after table 298 - There is an illegal cross-reference

RESPONSE: Accepted – reference added

Page 241

Note 33, George Penokie, 10/22/98 05:01:08 PM

Tables 312 and 313 have thin lines while table 314 has thick lines all should be the same.

RESPONSE: Accepted -

Page 242

Note 34, George Penokie, 10/22/98 05:02:23 PM

Tables 312 and 313 have thin lines while table 314 has thick lines all should be the same.

RESPONSE: Accepted -

Note 35, George Penokie, 10/22/98 05:02:49 PM

Tables 312 and 313 have thin lines while table 314 has thick lines all should be the same.

RESPONSE: Accepted -

Page 243

Note 36, George Penokie, 10/22/98 05:03:38 PM

Tables 312, 315, and 313 have thin lines while table 314 has thick lines all should be the same.

RESPONSE: Accepted -

Page 246

Note 37, George Penokie, 10/22/98 05:05:28 PM

Table 320 - It looks like there is a missing equation in this table.

RESPONSE: Accepted – equation will be added from Mt Fuji3

Page 259

Note 38, George Penokie, 10/22/98 05:08:34 PM

Table 344 - This is the way all those other tables (e.g. 314, 315, 316, etc.) should be made to look like.

RESPONSE: Accepted -

Page 264

Note 39, George Penokie, 10/22/98 05:10:41 PM

Table 354 - This table is really messed up in the pdf file.

RESPONSE: Accepted -

Page 269

Note 40, George Penokie, 10/22/98 05:12:13 PM

Section 6.1.35 - If this command is obsolete then why is it described here.

RESPONSE: Rejected – This is the first standard that lists the command as obsolete. It will be removed in the next version of the standard.

Page 277

Note 41, George Penokie, 10/22/98 05:15:18 PM

Section 6.1.40 - 5th paragraph after table 373 - There should not be any notes from editors in this version of the document.

RESPONSE: Accepted -

Page 281

Note 42, George Penokie, 10/22/98 05:20:45 PM

Annex A - This annex is not needed as it is a duplication of what is in SPC. The odds are it will be outdated before this standard is complete. So there is no point in having it.

RESPONSE: Rejected – It was determined in the prior version that this would provide a reference to codes.

Page 295

Note 43, George Penokie, 10/22/98 05:23:45 PM

Annex C- What's going on here?? If this standard is not complete then what is it doing in letter ballot? If it is complete then this section needs to be removed of filled in. I cannot vote yes for an incomplete standard.

RESPONSE: Accepted – Annex C is coming from RBC and has not been completed. When it is completed and modified for MMC2 it will be inserted.

Page 311

Note 44, George Penokie, 10/22/98 05:29:03 PM

Table N.3 - There are no cross-references in this table.

RESPONSE: Accepted – ref standard will be added.

Comments attached to No ballot from Gene Milligan of Seagate Technology:

The editor and other contributors on MMC-2 should be complimented on a draft, which has provided admirable documentation of this application area. While the bulk of the following comments are editorial I decided I should vote NO since the draft identifies additional tasks to be done in the draft including a missing normative annex; two TBDs in Table 227; and a TBD under Table O.2.

Page numbers are pdf page numbers.

Page 1

Title here is different than in body. Also suggest just plain SCSI as in other new SCSI standards.

RESPONSE:

Page 2

"holder's" quickly identifies patent statement as an obsolete patent statement.

RESPONSE: Accepted – patent statement updated

Page 3

Version 2? This is not the style used in other SCSI follow on standards although it may be a better style.

RESPONSE: Rejected – The Working Group feels this is much clearer for CD & DVD vendors. Especially by Far East companies

Page 18

The Annex D requirements in the foreword are for what? - Definition added

Why was Annex P omitted?

RESPONSE: Annex D title added. Annex P was deleted data included in an earlier annex.

Page 19

In the Introduction change "This MMC-2" to "The MMC-2" (I think this implies there are more MMC-2 command sets).

RESPONSE: Accepted - changed

As commented on the title page "SCSI-3" should be changed to SCSI nearly globally except where it is used to distinguish from "SCSI-2". In that case it should be "SCSI-3 and subsequent SCSI standards" I think Fibre Channel FC-4" should be changed to "Fibre Channel Protocol (FCP)".

RESPONSE: We don't understand this comment. This a "SCSI-3" standard. Rejected

In Introduction's list of transports why is ATA/ATAPI-4 not included? - ATAPI was inserted.

An ancient comment at least to the T10 Chair, why ask for interpretations? – This must be an "inside" comment.

RESPONSE: Accepted

Page 20

Similarly to the Introduction, the Scope's list of mappings should include ATA/ATAPI-4. – ATA?ATAPI inserted.

In Objective (3) "Initiator computers" sounds awkward and redundant to me. I suggest just "computers" or even better "hosts". But just "Initiators" would be OK to SCSI people. Globally it should be noted that "Initiators" is better than "initiators" in the other standards. Better but different.

RESPONSE: Accepted – Globally changed "Initiator computer" to "Initiator". Added ATA/ATAPI-4 to the Scope.

Page 21

The second sentence of the second paragraph of Normative References is not a sentence. - Corrected

In 2.1 "DIS" are not approved and would fall into 2.2. But I suggest it may be more expedient to promote them to 2.1 where they are by deleting the acronym "DIS". (Leave it to the ANSI editor to object if they have not then reached that stage. The ANSI editor routinely checks the catalogs on the normative references.

Response: Removed "DIS"

When MMC-2 is balloted as an ISO/IEC standard there would be a letter ballot to fix all the orphan sub-clauses. This will result in the cross-references being different by .1 in the two publications. I suggest eliminating them now producing the same cross-references in the US domestic and the international standards. Orphan sub-clause are those that can not be cross-referenced without referencing all other sub-clauses in the clause. The first two paragraphs of Clause 2 are an example. An example fix would be to change the Structure to:

- 2. References
- 2.1 Normative References

The following ...

- 2.1.1 Approved References
- 2.1.2 References under development
- 2.2 Other References (Or 2.1.3 if these are intended to be Normative)

Response: Changed headings as requested.

Note that with this construction the first two paragraphs of this clause can now be cross-referenced without dragging in Other References if that is intended.

SBC is published and should be moved from 2.2 to 2.1.

In 2.3 first line make "specification" plural.

Secretariat is not enough. Fully state which Secretariat is being referred to.

I think it was also a great horse.

RESPONSE: Accepted – made changes as requested. Added address for NCITS Secretariat.

Page 22

In loose talk I think on some 1394 reflectors I have seen these referred to as the IEC 61883 series of standards. But I have suspected that this may be incorrect and that the IEC series were more likely extracts from the other references. But in any case I presume IEC 61883 series should be accounted for in some of these sub-clauses.

The IEC 61883 series are:

IEC 61883-1 (1998-02) Consumer audio/video equipment - Digital interface -

Part 1: General

IEC 61883-2 (1998-02) Consumer audio/video equipment - Digital interface -

Part 2: SD-DVCR data transmission

IEC 61883-3 (1998-02) Consumer audio/video equipment - Digital interface -

Part 3: HD-DVCR data transmission

IEC 61883-4 (1998-02) Consumer audio/video equipment - Digital interface -

Part 4: MPEG2-TS data Transmission

IEC 61883-5 (1998-02) Consumer audio/video equipment - Digital Interface -

Part 5: SDL-DVCR data transmission

An additional IEC 61883: work in progress is IEC 61883-6 Ed. 1.0 Audio and music data protocol

RESPONSE: Rejected – these specific specifications were not consulted in the generation of this standard.

Page 23

3.1.4 and 3.1.5 appear to have been crafted long ago before the ATAPI standards project was aborted. Refer to NCITS 317:1998 ATA/ATAPI-4 for a definition of these two terms.

Modified as requested.

In 3.1.8 replace "of that can have" with "with".

Modified as requested.

Replace "a Initiator " with "an Initiator" or with "an initiator globally. Modified as requested.

IEC standards in general are now 6XXXX and those without the leading 6 need to have 60000 added to their number to arrive at a number that can be ordered. Do not apply this rule to ISO/IEC standards.

What does this mean to us?

In 3.1.17 why is it Logical Units and not Logical Blocks? Won't this confuse SCSI folks?

RESPONSE: Accepted – term "or Logical Units" has been deleted from definition.

Page 24

In 3.1.26 I think it should be error free data not error free media. Feel free to substitute a word such as recording for data to replace media.

Changed the text to "....providing apparent error free media"

The definition of 3.1.43 is not quite the same as used earlier in the standard, see use of field in 3.0 (orphan). Added the sentence "Fields containing only one bit are referred to as the "named" bit instead of the "named" field."

I am surprised that Hex is 8 bits since I have always thought it was 4 bits which nicely fit two at a time in an octet. Is Incomplete session really without Lead-in and Lead-out written? I would have thought with Lead-in written and without Lead-out written.

Added the sentence "Indicates a binary value represented in base 16."

RESPONSE: - Changed to 4 bits. Yes Lead-in and Lead-out are not written.

Page 25

Regarding 3.1.61 is it necessary to limit medium to a single disc? Do tapes not have medium or are they not using MMC-2?

In 3.1.76 delete "only".

RESPONSE: - Tapes would not use MMC-2 as this is only for C/DVD document

Page 26

Make 3.1.82 has a singular or has a single. – Modified as requested

3.1.83 should change "structure is that the two transparent" to "structure with the two transparent". Change the last sentence to "A single sided disc has one recording side and one non-recording side." to avoid a two sided disc recorded only on one side being defined as a single sided disc. – Modified as requested

Is contact with the UPC Council only by paper mail? – YES!

The Abbreviations and symbols material appears instead to be conventions, which should be moved to Conventions. But the addition of real abbreviations and acronyms would be nice. - Accepted

In 3.4.3 replace "interpretability" with "interoperability". I suspect the spell checker provided the word. – Modified as requested

In 3.4.5 replace "shall be" with are intended to be".

RESPONSE: Accepted

Note 1; Label: Gene Milligan; Date: 10/23/98 12:00:27 PM

In 3.4.7 delete the first instance of "as defined by this standard".

Page 28

Following table 1 the MSF bit is defined. But table one does not have an MSF bit. I assume a cross-reference is needed.

- 4.1.2 uses the term controller which I believe is not defined for SCSI.
- In 4.1.2 address should not be hyphenated.
- In 4.1.2 "is terminated" should be "shall be terminated" unless this mandatory requirement is stated outside the model.
- In 4.1.2 replace specification with standard. This should be a global change except where referring to a private specification which is not a standard (de facto and standard are two words [well maybe three] not synonyms).

In 4.1.3 change "accessible" to "addressable".

Change "does not have a relationship" to "is not required to have a specific relationship".

RESPONSE: Accepted – Modified as requested

Page 29

Implementations have not really reached the point of being able to wish. Change "may wish to have the blocks" to "may request that the blocks".

In 4.1.4 change "will use the following names" to "are named" and "will be used differently" to "are used differently". But are they really used differently or are they defined differently and used the same?

Referring to 4.1.4.2 which of the clauses are "implementation sections". In addition it seems bad practice for MMC-2 to define Hard Reset detection for ATA/ATAPI. Similarly I think SPI-2 should prevail over MMC-2 regarding Hard Reset detection. "not individual Logical Units" should be changed to "not just individual Logical Units".

Referring to 4.1.4.3 the first portion of the prior comment applies. Is there a less graphic but more technical description of "hung Logical Unit" that translates well in other cultures? – Changed to "non-responding" Logical Unit.

RESPONSE: -Accepted Above comments were accepted and modified as requested.

I think staying in the current Power State with Device Reset is in conflict with ATA/ATAPI-4 but there is some support for this to be changed in ATA/ATAPI-5. In ATA/ATAPI-4 the ATAPI folks insisted this be used to bring an ATAPI device out of Sleep. Referring to 4.1.4.4 the ATAPI reset story seems to have been requested a little differently in the two standards projects.

RESPONSE: - This comment requires that an Annex be inserted that defines SCSI implementation for MMC2 logical units. The working group has placed this on the agenda for their next working group meeting.

Page 31

It is confusing to have the first paragraph of Deferred Errors in 4.1.6 defining an error that is not deferred. I suggest moving this paragraph to a new sub-clause titled Current Errors as the case in SPC-2.

RESPONSE: Paragraph removed

In de-witching the second paragraph a problem has been created. I think the "that" should be reinstated as "which" or alternatively replacing "for that" with "that". It is not correct that multiple command buffering must be in use for the deferred error to occur. I suggest removing the phrase beginning with "and". However there may be a reason to add "multiple command buffering to the C/DVD danger list. To aid a search for compliance requirements it would be better to replace "are required to implement" with "shall" globally except in the definition of "shall".

RESPONSE: Done. Modified as requested

In 4.1.6 delete "computer". Perhaps this is a global change.

RESPONSE: Changed to "Initiator."

It appears that considerable material is redundant to the normative SPC requirements. Is the reason to change it or just to encounter the risk of having more room for misinterpretation and unintentional omissions on subsequent revisions?

RESPONSE: This information is provided in the model sub-clauses are here for clarification and ease of understanding this standard.

In 4.1.7 replace "there now exists a MEDIA STATUS NOTIFICATION Feature" with "a MEDIA STATUS NOTIFICATION Feature is defined". Also replace "must ensure" with "shall ensure".

RESPONSE: Modified as requested.

Page 32

In the first sentence of 4.2.1.1 should "frame" be plural? – Modified as requested

Should the first sentence after Figure 1(and subsequently) be "small frames" rather than "small blocks"? In the second sentence why is it "frame(Frame)"?

RESPONSE: Modified as requested

Page 34

There is a missing cross-reference under Figure 4.

RESPONSE: Cross reference has been added "See 6.1.23 READ SUB-CHANNEL sub-clause."

Page 35

In 4.2.2 delete the second sentence. – Sentence deleted

In the second paragraph of 4.2.2 change "must have" two places to "needs" and "insure" to "ensure". – Modified as requested.

I have given up on working the musts. Please globally review must in this standard. If they impose a compliance requirement for this standard use a "shall" construction. If they are not a compliance requirement of this standard (even if they are a compliance requirement of some other standard [e.g. recorded format standard]) use a form of "is", "needs" or the like to avoid triggering the compliance bell.

RESPONSE: Global search completed and modified as requested.

Page 37

Under Figure 7 why are there periods next to some of the "to"s.

RESPONSE: Periods removed

Page 38

Several registration authorities have been mentioned in MMC-2. Since it is presently not clear, to me, which material in MMC-2 is redundant to other normative standards, it is also not clear to me which registration authorities are required by MMC-2 itself. This probably needs to be clear to the implimentor, it should be clear to the T10 Chair, and it definitely needs to be clear to the IR since a list needs to be filled out when the draft is proposed as an international standard.

RESPONSE: No Response?

Page 44

In 4.2.2.8 delete "on that".

RESPONSE: Modified the sentence

Page 58

The "3 Bytes" and "1 Bit" two places labels needs to be moved for readability in Figure 24.

RESPONSE: Figure modified to clear labels

The hung comment also applies to Figure 26.

RESPONSE: Modified as noted

Page 67

Should item (3) in 4.3.6.4 have "the same single region" rather than "a same single region"?

RESPONSE: Changed the sentence

Page 71

In 4.4.1 delete "actually" and the temporal "This type does not exist today, although it is possible." and delete the balance of the paragraph since it is idle discussion having no bearing on the standard.

In 4.4.1.1 change "There can exist a Logical Unit that is capable of changing the side of the Disc, but does not have separate Slots from the playing position. This type of Logical Unit reports that it has a Mechanism type that is not a changer, but also reports Side Change Capable." to "A Logical Unit that is capable of changing the side of the Disc, but does not have separate Slots from the playing position reports that it has a Mechanism type that is not a changer, but also reports Side Change Capable." The second paragraph is hard to parse.

RESPONSE: Accepted Sentences modified and paragraph re-written

Page 78

In Table 34 and probably other portions of the standard use the phrase Vendor Unique is used. As I recall SCSI standards use Vendor Specific on the picky point that it may not be unique.

RESPONSE: Modified as requested

Page 84

Table 44 has a different acronym for the Pvnt Jumprr than does the text.

RESPONSE: Changed to match

Page 97

In 5.3.18 the Test Write bit set to one should have the "shall" form rather than the "is" form.

RESPONSE: Modified as requested

Page 100

5.3.22 requires that the commands in Table 90 be implemented but there is only a single command in Table 90.

RESPONSE: Added the READ BUFFER command

Page 101

Table 92 and the associated text also disagree on the number in the table.

RESPONSE: Accepted

Page 110

In Table 108 and elsewhere a column is included called Status. The entries in this case state NOT USED. Does this mean status is not used or the page is not used. I suggest deleting the column and placing "Shall not be implemented" in the Sub-Clause column.

RESPONSE: Accepted - Changed as requested

Page 113

In Table 113 what does "(Optional) Default 0"for the PS bit mean? Is a device that adds the cost of non-volatile memory have to default to not using it?

RESPONSE: Removed "optional"

Page 149

Regarding the note under Table 154 how fast is "immediately"? Is the tolerance infinite?

RESPONSE: Removed the note.

There are quite a few tables (e.g. Table 186) in which the columns are too narrow for the items or the font is too large for the columns. This may be due to pdf differences but should be checked.

RESPONSE: Checked all tables for size

Page 196

The structure of some of the tables (e.g. Table 240) with the same byte numbers repeating is confusing. I think this confusion could be cleared up by changing the data length name from the generic DVD structure to the specific (e.g. Copyright Management Information Data Length). Alternatively beginning the information with Byte number 4 and changing the data length to additional data length. The definition of data length implies that the Reserved Bytes are included but I assume some will conclude that it begins with the second Byte 0.

RESPONSE: Sentence modified under table 228 for clarification.

Page 209

Table 261 has a note that the command is not mandatory. Are tables with command information without a note of this type describing mandatory commands?

RESPONSE: Note removed and statement added before the table.

Page 219

T10 was required to report projects that had a potential year 2000 problem. It appears from Table 282 that MMC-2 has such a problem? Was it reported? Should anything be done about it?

RESPONSE: This is a field that is not controlled by MMC standard. The ISRC data is controlled by an international group and only two digits were allocated. The working group does not know how to resolve this problem.

Page 223

Regarding the earlier comment on potential confusion on the repeating Byte numbers. The construction of Tables like Table 287 is not confusing and should be used as the style for the others.

RESPONSE: Changed other tables to match.

Page 230

A third construction for the tables is found in Table 295. The style established by SPC should be used for all cases.

RESPONSE: Change all tables to match 287

Page 238

The note above Table 307 has a normative requirement. Normative requirements need to be moved from the notes to the clause text.

RESPONSE: Remove note format and made it clause text.

Page 264

Something odd happened to Table 354 in the pdf.

RESPONSE: Fixed the table

Page 265

The note under Table 356 should be text due to the normative requirement. A global check is needed.

RESPONSE: Remove note format and made it clause text.

Page 277

Clause 6.1.40 includes an editor's note concerning work yet to be completed.

RESPONSE: Removed note.

Page 281

Where is ++R in Annex A explained? **RESPONSE:** Don't know. Removed ++.

What value is B.2.1.1? Changed back to "Host". Global change was incorrect.

B.2 should be MMC-2 not MMC. **RESPONSE:** Changed as requested

Page 295

When will Annex C be added?

RESPONSE: Annex C will be added when RBC is completed

Page 303

Why does Table L.1 have a column with no entries?

RESPONSE: Column will contain either SBC, SPC, SBC-2, or SPC-2.

Page 312

Table N.3 also has a blank column.

RESPONSE: Table N3 to be eliminated.

Comments attached to Yes ballot from Robert Snively of Sun Microsystems Computer Co:

None at present. I reserve the right to make some before the closing of the ballot.

2/19/1999

Additional comments to MMC-2 Rev 9 ASC/ASCQ issues.

Below are the comments from Ralph Weber. The MMC-2 working group approve these items and has consulted R.

P29

The last sentence should read:

The sense key is set to NO SENSE, the additional sense code is set to NO ADDITIONAL SENSE DATA (00h) and the audio status (see Table 274) is reported in the additional sense code qualifier field.

RESPONSE: Accepted and modified per request.

Note: SPC-2 already has ASC/ASCQ definitions to fit this wording.

P46

READ OF SCRAMBLED SECTOR WITHOUT AUTHENTICATION is not a defined additional sense code. Recommend using 30/10.

RESPONSE: Accepted as modified. Error definition added to Table A1 5/6F/01

P48

... sense code set to ILLEGAL REQUEST ... should be: ... sense key set to ILLEGAL REQUEST ...

RESPONSE Accepted and modified as requested

MEDIA REGION CODE IS MISMATCHED TO LOGICAL UNIT REQUEST is not a defined additional sense code in annex A. 4.3.6.6.1 suggests that the code should be 6F/04. This leaves open the question of what definitions apply to 6F/00 [must be defined], 6F/01 [may be reserved], 6F/02, and 6F/03.

RESPONSE: Accepted as modified. Error definition added to Table A1 5/6F/04

P49

... sense code set to ILLEGAL REQUEST ... should be: ... sense key set to ILLEGAL REQUEST ...

RESPONSE: Accepted and modified as requested

DRIVE REGION MUST BE PERMANENT/REGION RESET COUNT ERROR is not a defined additional sense code in annex A. 6.1.34 suggests that the code should be 6F/05. See previous comment for discussion of 6F/00 code definition.

RESPONSE: Accepted as modified. Error definition added to Table A1 5/6F/05

P55

MECHANICAL POSITIONING OR CHANGER ERROR (3B/16) is not listed in annex A, but several other 3B/xx codes are.

RESPONSE: Accepted as modified. Error definition added to Table A1 4/3B/16

P99

check condition should be: CHECK CONDITION **RESPONSE**: Completed global change to all caps.

P109

FAILURE PREDICTION THRESHOLD - Predicted Logical Unit Failure is not defined. Recommend 5D/02 which SPC-2 *will* define as LOGICAL UNIT FAILURE PREDICTION THRESHOLD EXCEEDED.

RESPONSE: Accepted. Added error definition to Table 1 as 1/5D/02

FAILURE PREDICTION THRESHOLD EXCEEDED - Predicted Media Failure is not defined. Recommend 5D/01 which SPC-2 *already* defines as MEDIA FAILURE PREDICTION THRESHOLD EXCEEDED.

RESPONSE: Accepted. Added error definition to Table 1 as 1/5D/01

P115

The op code for SEND DVD STRUCTURE should be BFh as ADh belongs to READ DVD STRUCTURE **RESPONSE**: Accepted. Changed as requested

P117

Strictly: LOGICAL UNIT NOT READY - OPERATION IN PROGRESS should be: LOGICAL UNIT NOT

READY, OPERATION IN PROGRESS

RESPONSE: Accepted and modified as requested.

P118

If the write parameter page is inconsistent with the PMA, CHECK CONDITION shall be set to ILLEGAL MODE FOR THIS TRACK.

should be: If the write parameter page is inconsistent with the PMA, CHECK CONDITION status shall be returned and the additional sense code shall be set to ILLEGAL MODE FOR THIS TRACK.

RESPONSE: Accepted and modified as requested.

If all tracks in the last session are not complete, generate Check Condition Status. should be: If all tracks in the last session are not complete, generate CHECK CONDITION status.

RESPONSE: Accepted and modified as requested.

P119

Some description of ASC/ASCQ 71/04 is required. Also, 71/04 is not included in annex A.

Strictly: LOGICAL UNIT NOT READY - OPERATION IN PROGRESS should be: LOGICAL UNIT NOT

READY, OPERATION IN PROGRESS

RESPONSE: Accepted and modified as requested.

P121

Strictly: LOGICAL UNIT NOT READY FORMAT IN PROGRESS should be: LOGICAL UNIT NOT READY, FORMAT IN PROGRESS

RESPONSE: Accepted and modified as requested.

P122

Strictly: ILLEGAL FIELD IN PARAMETER LIST should be: INVALID FIELD IN PARAMETER LIST Strictly: LOGICAL UNIT NOT READY - FORMAT IN PROGRESS should be: LOGICAL UNIT NOT

READY, FORMAT IN PROGRESS

Strictly: ILLEGAL FIELD IN PARAMETER LIST should be: INVALID FIELD IN PARAMETER LIST

RESPONSE: All accepted and modified as requested.

P124

check condition should be: CHECK CONDITION

RESPONSE: See P99

P125

ZONED FORMATTING FAILED DUE TO SPARE LINKING is not defined. Recommend 31/02. **RESPONSE**: Accepted and modified as requested. Error definition added to Table A1, 03/31/02

P130

Regarding: "This command shall not return a Unit Attention check condition." Personally, I'd prefer that this read: This command shall not return CHECK CONDITION status to report a unit attention condition.

RESPONSE: Accepted and sentence inserted.

But, if that's not acceptable, at least fix the capitalization: This command shall not return a unit attention CHECK CONDITION.

RESPONSE: See 1st paragraph.

P140

In 3 instances above: strictly: INVALID FIELD IN COMMAND DESCRIPTOR BLOCK should be: INVALID FIELD IN CDB

RESPONSE: Accepted and modified as requested in all instances.

P149

LOGICAL BLOCK OUT OF RANGE should be LOGICAL BLOCK ADDRESS OUT OF RANGE ILLEGAL MODE FOR THIS TRACK OR INCOMPATIBLE MEDIUM should be ILLEGAL MODE FOR THIS TRACK or INCOMPATIBLE MEDIUM INSTALLED.

RESPONSE: Accepted and modified as requested.

P150

Check Condition should be: CHECK CONDITION

RESPONSE: See P99

P155

In 3 instances above: CHECK condition should be: CHECK CONDITION

RESPONSE: See P99

P162

ILLEGAL MODE FOR THIS TRACK OR INCOMPATIBLE MEDIUM should be ILLEGAL MODE FOR THIS TRACK or INCOMPATIBLE MEDIUM INSTALLED

RESPONSE: Accepted and modified as requested.

P176

COPY PROTECTION KEY EXCHANGE FAILURE - KEY NOT PRESENT is not defined. Maybe this is 6F/01 COPY PROTECTION KEY EXCHANGE FAILURE - KEY NOT ESTABLISHED is not defined. Maybe this is 6F/02

INVALID FIELD IN COMMAND PACKET probably should be: INVALID FIELD IN CDB

RESPONSE: Accepted and modified as requested. Error definitions added to Table A1 (match Fuji3) P204

... an INVALID FIELD in COMMAND PACKET should be: ... an additional sense code of INVALID FIELD IN CDB

RESPONSE: Accepted and modified as requested.

NOT READY, MEDIA FORMAT NOT COMPATIBLE is not defined. Recommend using INCOMPATIBLE MEDIUM INSTALLED (30/00) or defining 04/09 as LOGICAL UNIT NOT READY, MEDIA FORMAT NOT COMPATIBLE

RESPONSE: Accepted comment and modified as "CANNOT READ MEDIUM – INCOMPATIBLE FORMAT" 30/02.

P216

Check Condition should be: CHECK CONDITION

RESPONSE: See P99

P222

SYSTEM RESOURCE FAILURE is not listed in annex A

RESPONSE: Accepted and modified as requested. Error definitions added to Table A1

P224

COPY PROTECTION KEY EXCHANGE FAILURE - KEY NOT PRESENT is not defined. Maybe this is 6F/01 **RESPONSE**: Error definition added to Table A1. 5/6F/01 (match Fuji3)

P225

COPY PROTECTION KEY EXCHANGE FAILURE - KEY NOT PRESENT is not defined. Maybe this is 6F/01 **RESPONSE**: Error definition added to Table A1 5/6F/01 (match Fuji3)

COPY PROTECTION KEY EXCHANGE FAILURE - KEY NOT ESTABLISHED is not defined. Maybe this is 6F/02

RESPONSE: Error definition added to Table A1 5/6F/02 (match Fuji3)

P228

INVALID FIELD IN COMMAND PACKET probably should be: INVALID FIELD IN CDB

RESPONSE: Accepted and modified as requested.

P229

NO MORE RESERVATION IS ALLOWED is not defined. Recommend defining 55/03 as NO MORE TRACK RESERVATIONS ALLOWED

RESPONSE: Added definition to Table A1 at 72/05 (match Fuji3)

RMA/PMA IS FULL is not defined. Recommend defining 55/04 as RMA/PMA IS FULL

RESPONSE: Added definition to Table A1 at 72/06 (match Fuji3)

P232

INVALID FIELD IN COMMAND DESCRIPTOR BLOCK should be: INVALID FIELD IN CDB

RESPONSE: Accepted and modified as requested.

P241

INVALID FIELD IN COMMAND PACKET probably should be: INVALID FIELD IN CDB

RESPONSE: Accepted and modified as requested.

P248

COPY PROTECTION KEY EXCHANGE FAILURE - AUTHENTICATION FAILURE is not defined. Maybe this is 6F/03

RESPONSE: Accepted. Added definition to Table A1 as 6F/00 (match Fuji3)

P255

Strictly: ILLEGAL FIELD IN PARAMETER LIST should be: INVALID FIELD IN PARAMETER LIST **RESPONSE**: Accepted and modified as requested.

P260

INVALID ADDRESS FOR WRITE is not defined. Recommend defining 21/02 as INVALID ADDRESS FOR WRITE

RESPONSE: Accepted and modified as requested.

P261

INVALID ADDRESS FOR WRITE is not defined. Recommend defining 21/02 as INVALID ADDRESS FOR WRITE

RESPONSE: Accepted and modified as requested.

P262

Invalid Field in CDB should be: INVALID FIELD IN CDB

RESPONSE: Accepted and modified as requested.

P264

should also list:

00/12 AUDIO PLAY OPERATION PAUSED

00/13 AUDIO PLAY OPERATION SUCCESSFULLY COMPLETED

00/14 AUDIO PLAY OPERATION STOPPED DUE TO ERROR

00/15 NO CURRENT AUDIO STATUS TO RETURN

RESPONSE: Accepted and modified as requested, error definitions added to Table A1.

P284

Strictly, 29/00 is POWER ON, RESET, OR BUS DEVICE RESET OCCURRED

RESPONSE: Accepted and modified as requested.

P293

MODE SELECT(6), MODE SENSE (10), and MODE SENSE(6) all could be made optional. **RESPONSE**: Accepted and modified as requested. Kept MODE SENSE (10) as Mandatory.

Pioneer Comments. The majority of the comments were to update the DVD-R information.

No.	MMC2	MMC2 Rev.9.0D1	Mt.Fuji	Proposal	Comment
	Page		Page		
	Clause Pos.		Clause Pos.		
1.		Host	ros.	Initiator	To change
1.	documen	HOSt	_		COMPLETED
	t				
2.	_	drive	-		To change
	documen				COMPLETED
3.	page 65	Event Class 4 shall be	-	Move to page 67 5.3.4 Removable	To move to other
	5.3.3	supported		Medium Feature	location
	9th para.	For example, if the user inserts a new			Completed Information move
		medium and the Logical Unit is			to 4.1.7
	6th nara	accessed with a command, the CHECK			
		CONDITION with UNIT ATTENTION shall be reported, but the			
		Logical Unit shall also report the NEW			
		MEDIA Event with the next available			
		GET EVENT STATUS			
		NOTIFICATION (Media Status)			
		command.			
	page 70 5.3.7		page 197 11.5.2.7		To add a note into
	Table 49		2nd para.	with format codes of 0h, 1h, and 2h shall be supported. If the CD-Text bit is set,	COMPLETED
			from last		SEE PAGE 70
_				11	Table 49
5.	page 70 5.3.8		page 198 11.5.2.8	The READ DVD STRUCTURE	To add a note into Table 51 ADDED
	Table 51		8th para.	Command with Format Codes of 00h, 01h, 03h and 04h shall be supported. If	underlined phrase
			•	the Logical Unit also reports the DVD	•
				RAM Profile (5.4.10., "Profile 12h:	
				DVD Re-Writable" on page 93) or	
				supports reading of DVD-RAM media,	
				then Format code of 08h shall be	
				supported if DVD-RAM media is	
6.	page 71		page 199	present. [35h, SYNCHRONIZE CACHE	To add into Table
	5.3.9		11.5.2.9	Command, 6.1.40]	53
Ь	l			Communa, 0.1. 10]	

	Table 53		5th para.	[Note: The Immediate bit shall be supported.]	ADDED
	5.3.10 1st para	On CD media, this is known as packet recording.	page 200 11.5.2.10 3rd para.	On CD media, this is known as packet recording. On DVD media, this is known	To add ADDED underlined phrase
	page 73 5.3.10 Table 55		page 201 11.5.2.10 2nd para.	[53h, RESERVE TRACK Command, 6.1.2.9.]	To add into Table 55 ADDED
9.	page 73 5.3.10	2. Shall be supported if the OPC information is ever returned in the READ DISC INFORMATION return data.	page 201 11.5.2.10 5th para.	2. Shall be supported if the OPC information is ever returned in the READ DISC INFORMATION return data. 3. Shall be supported with Blanking Types of 000b, 001b, and 100b.	To add a note to Table 55 ADDED underlined phrase to note 1
	page 76 5.3.14 Table 64.	WRITE AND VERIFY	page 203 11.5.2.14 15th para.	WRITE AND VERIFY (10)	To change Global changed
	5.3.14 3rd para.	If there is more than one Blocking on the medium possible, the Blocking field shall be set to zero. See the READ TRACK INFORMATION Command for more information.	-		To delete this is for CD-R, not for WORM REJECTED CHANGE
	page 77 5.3.15 5th para.	CD-R/W	-	CD-RW	To change Global changed
	page 77 5.3.15 Table 67		page 205 11.5.2.15 3rd - 6th para.	[51h, READ DISC INFORMATION Command, 6.1.18] [52h, READ TRACK INFORMATION Command, 6.1.26] [25h, READ CAPACITY Command, 6.1.17] [35h, SYNCHRONIZE CACHE Command, 6.1.40]	To add into Table ADDED
	page 78 5.3.16 Table 70		page 206 11.5.2.16 1st para.	[35h, SYNCHRONIZE CACHE Command, 6.1.40]	To add to Table 70 ADDED
	5.3.16 Table 70	Notes: 1. Shall be implemented if the Erasable bit, in the READ DISC INFORMATION returned data, is set to one.	page 206 11.5.2.16	Notes: 1. Shall be implemented with Blanking Types of 000b, 001b if the Erasable bit, in the READ DISC INFORMATION returned data, is set to one.	To add ADDED
	page 81 5.3.18 Table 80		_	[Byte 4, Bit 6, BUFE]	To add BUFE bit in Table 80 ADDED
	5.3.18 6th para.	The Additional Length field shall be set to 04h.	-	to 04h.	To add description for BUFE bit ADDED
	page 83 5.3.21 Table 86	[BDh, MECHANISM STATUS, 6.1.8]		[Delete]	To delete REJECTED
19.	page 84 5.3.23 Table 91		page 213 11.5.2.24 10-11th para.	Sense code "6/2E/00 INSUFFICIENT TIME FOR OPERATION" shall be supported if queuing is not supported. Event Notification Class 6 shall be supported if queuing is supported.	To add a note to Table 91 ADDED Paragraph

		The READ DVD STRUCTURE	-	[These descriptions should be convert to	
	5.3.27 2-3rd para.	Command with a Format Code of 30h shall be supported. If any DCBs are identified as writable, the SEND DVD STRUCTURE Command shall be supported.		Table format to consistent with other Features]	INSERTED TABLE
	5.5.3 1st para.	The Read/Write Error Recovery Parameters Page (Table 115) specifies the error recovery parameters the Logical Unit shall use during any command that performs a data read operation from the media (e.g. READ, READ TOC/PMA/ATIP, etc.).	page 254 11.12.3.1 1st para.	The Read/Write Error Recovery Parameters Page (Table 115) specifies the error recovery parameters the Logical Unit shall use during any command that performs a data read or write operation from the media (e.g. READ, READ TOC/PMA/ATIP, WRITE, etc.).	To add ADDED underlined
	5.5.3 Table 116	If an data error occurs that is uncorrectable with the ECC information available on the media, or is uncorrectable in time to maintain data transfer, the data is not terminated.		If an data error occurs that is uncorrectable with the ECC information available on the media, or is uncorrectable in time to maintain data transfer, the data transfer is not terminated.	To clarify ADDED
	Under Table 116	[There is no Table for DVD]	page255 11.12.3.1 Table 182		To add to Error Recovery Descriptions for DVD media
	5.5.4. 2nd para.	necessarily reflect the status on a given	page 265 11.12.3.7. 4th para.	The values in this Page do not necessarily reflect the status on a given medium. They will be used as applicable when a write operation occurs. If any parameters have values incompatible with the current medium, the Logical Unit shall generate a CHECK CONDITION Status, 5/64/00 ILLEGAL MODE FOR THIS TRACK when a write is attempted. NOTE: Fields that are ignored for the current medium may contain 0 for the default mode parameter value.	To change and add ADDED and CHANGED
	5.5.4 Table 117	Catalog Number, International Standard Recording Code, Sub-header Byte 0 - 3]	page 265 11.12.3.7 Table 193		To add footnote or something ADDED PARAGRAPH and REMOVED Note 1.
	5.5.4 4th para.	Write Type 1 or 2 (Track at Once or Session at Once). When the Test Write bit is set to one, it indicates that the device performs the write process, but does not write data to the media. When the bit is set to zero the Write laser power is set such that user data is transferred to the CD media.	para.	is valid only for Write Type 1 or 2 (Track at Once or Session at Once)	To add description for DVD-R media ADDED Underlined
27.		Write Type Field (Table 118) specifies the CD-R/RW stream type to be used	page 266 11.12.3.7	J1	To delete DELETED

	5th para.	during writing.	8th para.	writing.	
28.	page 103 Table 118 Value 00h	Packet	page 266 Table 194 Value 00h	Packet/Incremental	To change field name RENAMED Field
	page 103 Table 118 Value 01h	[Track-at-once, Raw]	page 266 Table 194 Value 01h		To add footnote or something ADDED
	5.5.4	Packet - the device shall perform packet writing when WRITE commands are issued.	page 266 11.12.3.7 9th para.	perform packet/incremental writing	To change ADDED Incremented
		This mode requires that a cue sheet be sent prior to sending write commands.	page 266 11.12.3.7 10th para.	,	To add ADDED
	page 103 Table 119 2nd col.	[Table 119]	page 267 Table 195 2nd col.		To replace 2nd column of Table 119 and Table 195 of Mt.Fuji 3 TO BE DONE
	5.5.4 last para.	is set to 0 (Packet).	page 267 11.12.3.7 1st para.	is set to 0 (Packet). For DVD-R, this bit shall be set to one and ignored.	To add ***FINDME ADDED Underlined
	page 104 5.5.4 1st para.	The initial value on the medium is zero.	page 267 11.12.3.7 3rd para.	For DVD-R, this field shall be ignored.	To add REJECT see previous paragraph
	T	Track Mode is the Control nibble in all mode 1 Q Sub- channel in the track.	page 267 11.12.3.7 2nd para.	mode 1 Q Sub- channel in the track. This	To add Added Underlined
	5.5.4	This size is used for writing instead of the block size set in the mode select header.	page 267 11.12.3.7 last para.	the block size set in the mode select	To add Added Underlined
	5.5.4	An Initiator Application Code of zero is used for a Restricted Use - General Purpose Disc.	11.12.3.7 2nd para.	used for a Restricted Use - General	To add Added Underlined
	5.5.4 9th para.	number of User Data Blocks per fixed packet.	page 269 11.12.3.7 4th para.	Blocks per fixed packet. The Packet Size field, if FP bit is set to 0, shall be ignored. For DVD-R media, the default Packet Size shall be 16. The Packet Size shall be set to 16 to record to DVD-R media.	
	6.1.1	` '	page 169 11.1 2nd para.		To add REJECTED Moved to SET STREAMING

			I	CC - 4 (1 1 - 4 1 : 1 (1 - 1 1 - 1 :	
				affect the speed at which the blanking	
40	110		1.00	operation is performed.	m 11
40.		\mathcal{U}	page 169	Note: The erasing action performed in	To add ADDED
	6.1.1	this command is a Logical Erase.	11.1	uns command is a Logical Erase, <u>m</u>	ADDED
	2nd para.		3rd para.	which data are overwritten with Mode 0	
				data on CD media.	
41.	page 120	This is used for clearing a complete	page 170	This is used for clearing a complete disc.	To change
	6.1.1	disc. After completion of this command	11.1	The PCA may be excluded. At	ADDED
	Table	the disc is blank.	Table 69	completion of the operation, the area	
	135		Value000b	from the start time of Lead-in through	
	Value000			the last possible start time of Lead-out	
	b			plus 6,750 blocks and the entire PMA	
				shall be blank.	
42.	nage 110	b) When Blanking Type is Blank a	page 170		To add
		Track, this field indicates the Track.	11.1	Track, this field indicates the Track.	10 add
	last para.	Track, this field indicates the Track.	4th para.		Added
	rust puru.		Till para.	priorphing may occur when the beauty	Underlined
				operation is requested (to indicate	
				changing to the NOT READY condition)	
				and when the BLANK operation	
				completes (to indicate the Restricted	
				Overwrite Feature and others becoming	
				Current).	
				ADD- When the Logical Unit changes	
				status (NOT READY, READY) a Class	
				1 Event shall be generated.	
43.	page 120	a) In response to all commands except	page 170	a) In response to all commands that can	To change
		REQUEST SENSE and INQUIRY, the	11.1	return NOT READY status, the Logical	
		Logical Unit shall return CHECK	6th para.	Unit shall return CHECK CONDITION	Added
	•	CONDITION status unless a	_		Underlined
		reservation conflict exists, in that case		READY, OPERATION IN PROGRESS	
		RESERVATION CONFLICT status		unless a reservation conflict exists, in	
				I to the second	
		shall be returned.		that case RESERVATION CONFLICT	
				status shall be returned. <u>INQUIRY, GET</u>	
				CONFIGURATION, GET	
				EVENT/STATUS NOTIFICATION,	
				and REQUEST SENSE are among the	
				commands that shall not return a NOT	
<u></u>				READY error (Sense Key 2).	
		, I	page 170		To add
	6.1.1	command, the Logical Unit shall	11.1	CONFIGURATION, GET	ADDED
1	3rd para.	respond as commanded.	7th para.	EVENT/STATUS NOTIFICATION	
		_		command, the Logical Unit shall respond	
				as commanded.	
45.	page 121	When a Close Session is requested and	page 174		To change, add
		Write Parameters specify that the disc is		Parameters Mode Page (05h) is set to	<i>y</i> ,
	_	to remain open and there is not suffi-	last para.	11b and there is not sufficient space for	CHANGED To
	_	cient space for the next session, the		the next Session, the Session to be closed	underlined
		session to be closed shall be closed with		shall be closed and next Session shall	
				not be allowed. For CD, the Session is	
		the B0 pointer set to FF:FF:FF.			
1				closed without the B0 pointer. For DVD,	
				the Session is closed with Lead-out and	
				the Start PSN of the next Border- in field	
1				of Lead-in/Border-in set to 0.	
1				Note: In the case of insufficient space for	
				the next Session, legacy CD-R/RW	

				Logical Units may generate an error in	
				the above case. In this case, the Host	
				should change the MultiSession field in	
				the Write Parameters Mode Page (05h)	
4 -	10:		1=0	and retry the Command.	m 1
			page 173 11.2	\ /3	To change CHANGED
	0.1.2 Table	[Byte 5 Track Number]	Table 71		BYTE4
	137		rable / r		DITL
47.	page 121	If IMMED is one, then status is	page 173	If IMMED is set to 1, then status is	To add
	6.1.2	returned once the close operation has	11.2	returned once the close operation has	
	2nd para.	begun.	3rd para.	ocguii.	REJECTED -
				For DVD, DVD-R Logical Ullus Illay	Items added to model sections
				write cached RMD into the RMA	model sections
				immediately upon receipt of a CLOSE	
				TRACK/SESSION Command. DVD-R	
				Logical Units may delay the Close	
				operation and writing of cached RMD into RMA to allow multiple CLOSE	
				TRACK/SESSION Commands to be	
				issued quickly. In this case, it is	
				recommended that the Logical Unit not	
				write RMD into the RMA until the last	
				CLOSE TRACK/SESSION Command	
				in a sequence has been received.	
48.	page 121	If this is the incomplete track, Pad only	page 174	For CD, if this is the incomplete track,	To add
		to the minimum length of 4 seconds.	11.2	the Logical Unit shall pad with all zero	
		No other padding is to be done.	Table 72 3rd row	main data to the minimum length of 4	ADDED underlined
	3rd row	If this is the partially recorded or empty	ora row	seconds. No other padding is to be done.	undernned
		reserved track, the Logical Unit shall		In the case of an empty reserved track,	
		pad the track. In the case of an empty		the Logical Unit shall write the track	
		track, the Logical Unit shall write the		according to the Write Parameters Mode	
		track according to the write parameter page. If the write parameter page is		Page (05h). If the Write Parameters Mode Page (05h) is inconsistent with the	
		inconsistent with the PMA, CHECK		PMA or TDB, the Logical Unit shall	
		CONDITION shall be set to ILLEGAL		return CHECK CONDITION Status,	
		MODE FOR THIS TRACK.		5/64/00 ILLEGAL MODE FOR THIS	
				TRACK. For a partially recorded	
				reserved track, the Logical Unit shall	
				continue writing in the same mode as the	
				data already recorded.	
				For DVD, if this is the Partially	
				Recorded Reserved Track or the Empty	
				Reserved Track, the Logical Unit shall	
				pad the Track with 00h bytes. If the Track status is Invisible, no close	
				operation is to be done. In the case of an	
				Incomplete Track, no padding is to be	
				done and cached RMD shall be written	
				into the RMA.	
49.	page 121	Close session. If all tracks in the last	page 174	Close Session. If all Tracks in the last	To add
	6.1.2	session are not complete, generate	11.2	Session are not complete, generate	Added underlined
	Table	Check Condition Status.	Table 72	CHECK CONDITION Status, 5/72/03	data
	138		4th row	SESSION FIXATION ERROR -	
	4th row			INCOMPLETE TRACK IN SESSION	
				or if empty or partially recorded reserved	

				If Tracks exist in the incomplete Session,	
				generate CHECK CONDITION Status,	
				5/72/04 EMPTY OR PARTIALLY	
				WRITTEN RESERVED TRACK.	
				Behavior of the closing operation is	
				dependent on the MultiSession field in	
				-	
				the Write Parameters Mode Page (05h).	
				Closing an empty Session not produce an	
				error and a write to the media shall not	
				occur.	
50.	page 121	If Session is set to zero and Track is set	page 174	If the Session bit is set to zero and Track	To change, remove
		to one, byte 5 of the CDB contains the	11.2	bit is set to one, the <u>Track number field</u>	ADDED
	5th para.	track number of the track to close. If the	2nd para	indicates the number of the Track to	underlined
		track number is FFh, then the		close. Bytes 4 through 5 of the CDB	sentence.
		incomplete track is to be closed. Byte 5		shall be ignored if the Session bit is set	
		of the CDB shall be ignored if the		to 1.	
		Session bit is set.			
		1 '	page 174	resident to troop the meaning term	To add
	6.1.2	the following steps are required:	11.2	track, the following steps are required:	ADDED Phrase
	6th para.	4) 70	3rd para.	12.70	T. 11
52.			page 174		To add
	6.1.2	the minimum length of 4 seconds.	11.2	all zero main data to the minimum length	ADDED Phrase
	7th para.		4th para.	of 4 seconds.	
		3. The bounds of the track are	page 174		To add
	6.1.2	determined and a PMA entry is written	11.2	determined and a PMA entry is written	ADDED Sentence
		for track N+1.dated.	7th para.	for track N+1.dated.	
		Tor truck 111 reduced.		Closing a Track shall cause cached	
				information for the specified Track to be	
				committed to the medium prior to	
- 4	100		174	closing.	T 11
			page 174	For CD, closing a Session shall cause the	
	-	in and Lead-out to be written for the	11.2	Zeare in this Zeare car to de William for	TO BE DONE
	1st para.	incomplete Session.	8th para.	the incomplete Session.	ADDED undrline
				For DVD, closing an incomplete Session	data
				shall cause the Lead-in or Border-in and	
				Border-out to be written for the	
				incomplete Session. If the Multi-Session	
				field in the Write Parameters Mode Page	
				(05h) is set to 00b, a Lead-out shall be	
				appended to last Border-out. Once the	
				Lead-out has been written for DVD	
				media, data can not be further appended	
<u></u>				to the medium.	
55.		If partially recorded, empty, or	page 174	If partially recorded or empty Tracks	To change
		incomplete tracks exist in the	11.2	exist in the incomplete Session, the	
1	2nd para.	incomplete session, the drive shall issue	last para.	ILOGICAL CHIL SHAH ICDOLL CHILCEN COIN-	ADDED
		CHECK CONDITION status,		DITION Status, 5/72/04 EMPTY OR	Underlined
		ILLEGAL REQUEST, SESSION		PARTIALLY WRITTEN RESERVED	
1		FIXATION ERROR INCOMPLETE		TRACK. If an Incomplete Track exists,	
		TRACK IN SESSION.		the Logical Unit shall report CHECK	
		THE TOTAL IN SERVICE IN		CONDITION Status, 5/72/03 SESSION	
1				FIXATION ERROR - INCOMPLETE	
	100		150	TRACK IN SESSION.	TD 1
		/ I	page 173	a) While a CLOSE TRACK/SESSION	To change
		REQUEST SENSE and INQUIRY, the	11.2	operation is in process, the Logical Unit	ADDED as
	4th para.	Logical Unit shall return CHECK	5th para.	may respond to Commands that can	underlined and

		CONDITION status unless a reservation conflict exists, in that case RESERVATION CONFLICT status shall be returned.		return NOT READY status with CHECK CONDITION Status, 2/04/07 LOGICAL UNIT NOT READY, OPERATION IN PROGRESS unless a reservation conflict exists, in that case RESERVATION CONFLICT status shall be returned.	modified
	6.1.2	b) In response to the INQUIRY command, the Logical Unit shall respond as commanded.	page 173 11.2 6th para.	b) In response to the INQUIRY, GET CONFIGURATION, and GET EVENT/STATUS NOTIFICATION Commands, the Logical Unit shall respond as commanded.	To add Commands Added
	6.1.2 6th para.	c) In response to the REQUEST SENSE command, unless an error has occurred, the Logical Unit shall return a sense key of NOT READY and an additional sense code of LOGICAL UNIT NOT READY - OPERATION IN PROGRESS, with the sense key specific bytes set for progress indication.	page 173 11.2 7th para.	*	To add Completed Added new text
59.	page 122 6.1.2 7th para.		page 175 11.2 3rd para.	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 unwritable. Other Class 1 Events may occur due to closing a Track or Session.	To add ADDED underlined
	page 122 6.1.2 7th para.		page 173 11.2 8th para.	Determining the end of a sequence of CLOSE TRACK/ SESSION Commands is vendor specific.	To add REJECTED
		There is no guarantee that the medium has not been altered.	page 179 11.4 3rd para.	There is no guarantee that the medium has not been altered. The SET STREAMING Command may affect the speed used to Format the medium.	To add REJECTED
		GET EVENT STATUS NOTIFICATION	page 217 11.6	GET EVENT/STATUS NOTIFICATION	"/" is needed DID GLOBAL CHANGE
	page 135 6.1.5 under Table 161		page 220 11.6.1 Table 129	[Table 129 - Operational Event Format]	To add missing Table after Table 161 ADDED TABLEE
	page 135	Oh Ready The Logical Unit is ready for operation	page 220 11.6.1 Table 130	Oh Available The Logical Unit is ready for operation	To change REJECTED
	page 135 6.1.5	2h Busy/Reserved The Logical Unit is performing operations that will take an indefinite amount of time to terminate or is reserved by another Initiator.	page 220 11.6.1 Table 130	2h Busy The Logical Unit is performing operations that will take an indefinite amount of time to terminate.	To delete (Moved to Multi-host Event) REJECTED NEED TO KNOW IF

				RESERVED TO ANOTHER INITIATOR
6.1.5 2nd para. from last	An example of an action that shall be reported after the action is taken is termination of a play operation due to an error or end of medium.	page 220 11.6.1 1st para.		To change ADDED Underlined text
6.1.5 Table 163	6h, Control Request, Another Initiator has attempted a Persistent Prevent7h, Control Release, Another Initiator has performed a Persistent Allow	page 220 11.6.1 Table 131	[Delete]	To delete DELETED
page 136 6.1.5 just after Table 163		page 220 11.6.1 last para	Event 0h requires no Host action. The Host should respond to Events 1h through 5h with a GET CONFIGURATION Command to determine the Logical Unit configuration.	To add ADDED PARAGRAPH
6.1.6 4th para.	The Except field, when set to 00b, shall indicate that the nominal performance parameters be returned. When set to 01b, the entire performance exception list shall be returned. When set to 10b, only performance exceptions that cause the performance to fall outside the nominal shall be reported. For example, slipped sectors may not be included in the 10b list, but would be included in the 01b list.	11.7 3rd para.	indicate that the nominal performance	To add ADDED Underlined Items
6.1.6	The Write bit, when set to zero, shall indicate that the result data is for read performance.	page 230 11.7 2nd para.	The Write bit, when set to zero, shall indicate that the result data is for read	To add ADDED Underlined Text
page 141 6.1.6 3rd para.	All numbers are nominal.	page 230 11.7 3rd para.	All numbers are nominal. On CD media,	To add DONE
6.1.6 3rd para.	For example, a 4X-6X CD-ROM drive (CAV/CLV combination) may return two nominal performance descriptors. The first descriptor indicates a Start LBA of 0, Start Performance of 600 KB/s, an end LBA in the middle, and a performance of 900 KB/s. The second descriptor indicates a start LBA, adjacent to the ending LBA, of the previous descriptor, an ending performance of 900 KB/s, and an end LBA at the end of the medium and an ending performance of 900 KB/s.	page 230 11.7 3rd para.	For example, a 4X-6X CD-ROM Logical drive (CAV/CLV combination) with a data disc loaded may return two nominal performance descriptors. The first would indicate a Start LBA of 0, Start Performance of 706 kB/s, and an end LBA in the middle and a performance of 1058 kB/s. The second would indicate a start LBA adjacent to the ending LBA of the previous descriptor, an ending performance of 1058 kB/s, and an end LBA at the end of the medium and an ending performance of 1058 kB/s. The data rate may vary according to the mounted medium, i.e. CD Audio Tracks may have a different spin rate than Data Tracks. 1kB/s is 1000 Bytes per second.	
	The Start Performance field contains the nominal drive performance at the	page 231 11.7	The Start Performance field contains the	To change DONE

	1st para.	Start LBA in KB/s.	2nd para.	LBA in <u>k</u> B/s.	
74.	page 142	The End Performance field contains the		The End Performance field contains the	To change
	6.1.6.	nominal drive performance at the End	11.7	nominal drive performance at the End	DONE
		LBA in KB/s.	4th para.	LBA in kB/s.	
75.	page 142		page 231		To add
	6.1.6		11.7	replacement may cause two exceptions	ADDED note
	5th para.		6th para.	to appear in the Exception Descriptor list	
				- one between the non-replaced area and	
				the beginning of the replaced block, and	
				one from the end of the replaced block	
				back to the non-replaced area.	
		The READ CAPACITY command	page 293	The READ CAPACITY command	To add
	6.1.17	(Table 218) provides a means for the	11.21	(Table 218) provides a means for the	
	1st para.	Initiator to request information	2nd para.	initiation to request information regarding	ADDED Sentence
		regarding the capacity of the Logical		the capacity of the Logical Unit. This	underlined
		Unit. The returned logical block address		command may not report the correct	
		is modified to allow returning a		capacity of the recorded data for CD-R,	
		possibly inexact value (but one with a		CD-RW and DVD-R media that do not	
		known error bound) based on the Table		have a Lead-out in the last Session or	
		of Contents data.		last Border-out. For CD-ROM, The	
				returned logical block address is	
				modified to allow returning a possibly	
				inexact value (but one with a known	
				error bound) based on the Table of	
				Contents data.	
77.		If the resulting address points to a run	page 293	in the resulting against points to a run	To add
		out block (because the session was	11.21. 2nd para.	out block (because the session was	DONE
	c -1	recorded with packets or track at once	from last	recorded with packets of track at office in	DONE
	irom iast	in data mode), the Logical Unit shall	nom rust	data mode), the Logical Unit shall	
		subtract 2 from the LBA to point to the		subtract 2 from the LBA to point to the	
		actual last user data block.		actual last user data block. If no	
				complete session exists on the medium,	
70	maga 160	The DEAD DICCINICODMATION	page 307	this field <i>shall</i> be set to zero.	To add
		The READ DISC INFORMATION	11.24		10 auu
		Command (Table 221) provides information about all discs.	1st - 2nd	Command (Table 221) provides information about all discs: Magnetic,	ADDED TEXT As
	· · ·	information about all discs.	para.	initormation about an discs. Magnetic.	Modified
				RAM, DVD+RW, and CD- RW,	
				including all incomplete C/DVD-R, CD-	
				RW discs.	
				The READ DISC INFORMATION	
				Command requests that the Logical Unit	
				transfer general information about the	
				medium that is mounted to the Initiator.	
				The parameters returned are specific to	
				the media that is currently installed in	
				the Logical Unit. In the case of a DVD-	
				ROM Logical Unit, the disc information	
				returned may be for the last closed	
				Session. In the case of of media that does	
				not have logical tracks, the number of	
				Tracks and Sessions is considered one. If	
				this command is required by an	
				implemented Feature, this command	
				shall always function, even if that	

			Feature's Current bit becomes zero.	
6.1.18 1st para.	For some media, it is not possible to completely characterize incomplete discs, with information from the READ TOC/PMA/ATIP command. Delete this sentence	page 307 11.24 2nd para.	completely characterize incomplete discs, with information from the READ	To add DELETED REFERNECED SENTENCE
6.1.18 3rd para.	The number of Disc Information Block bytes returned is limited by the Allocation Length parameter of the CDB. An Allocation Length of zero is not an error.	-	[2 3333]	To delete due to redundancy DELETED
6.1.18 Table 222	[DID_V, DBC_V, Disc Type, Disc Identification, Last Session Lead-in Start Time MSF, Last Possible Start Time for Start of Lead-out MSF, Disc Bar Code]	page 308 11.24 Table 243 footnote	[These fields are inapplicable field for non-CD media. Shall be set to 0.] ADD- If a field or bit is not applicable to the installed medium, the defaut parameters in the Write Parameters Mode Page shall be returned in the corresponding field.	To add footnote or something ADDED Sentence
page 170 6.1.18 1st para		page 308 11.24 1st para.	The invalid field for corresponded	To add REJECTED
6.1.18 1st para	available in both the recording information area and the appended OPC table. Data Length excludes itself.		number of bytes available in both the recording information area and the appended OPC table. Disc Information Length excludes itself.	To clarify ADDED Phrase
	Disc Status field indicates the status of the disc and is shown in Table 223.	page 309 11.24 1st para.	The Disc Status field indicates the status of the disc and is shown in Table 223. A device which does not have the ability to write for the inserted medium (ex. C/DVD-ROM device) will return "Complete" (10b) status.	
	Complete (CD ROM or last session is closed and has no next session pointer)	page 309 11.24 Table 245 4th row	Complete Disc (eg. Not Appendable. C/DVD-ROM, complete CD-R, CD- RW, DVD-R, or write protected Random Writable media)	To change DONE
page 170 6.1.18 Table 223 5th row	Reserved	page 309 11.24 Table 245 5th row		To change REPLACED with sentence - DONE
6.1.18 3rd para.	defined in Table 224. For media that does not use Sessions this field shall be 11h.	page 308 11.24 4th para.	only for discs with either empty or incomplete status and given by the following table. For DVD-RAM, this field will return "Complete" (11b). Table 224 shows the definition of the State of Last Session.	To add REJECTED and modified as indicated
6.1.18 4th para	The Erasable bit, when set to one, indicates that CD-RW medium is present. Otherwise, CD-RW medium is not present.	page 308 11.24 3rd para.	indicates that DVD- RAM, DVD+RW or CD-RW medium is present. Otherwise, such a medium is not present.	To add REJECT changed CD-RW to Overwrittable
6.1.18	The Number of First Track identifies the first track number in the TOC or PMA. Valid track numbers are from	page 309 11.24 2nd para.	The Number of First Track on the disc: For non-CD media, this field shall be set to 1.	To change ADDED Underlined data

not required to be one. A disc may start with any valid track number; she tween the first and last track number shall be in contiguous ascending order, except for Lead-out areas. D11 Disc Status is set to 00 (Empty Disc), the Number of First Track field shall be a contiguous ascending order, except for Lead-out areas. D11 Disc Status is set to 00 (Empty Disc), the Number of First Track field shall be a continued of the first track in the PMA and the first track is an Incomplete Track, the Number of First Track field shall be a continued of the first track in the last session. This is of the first track number of the first track in the last session. This is inclusive of the invisible track. D1 Disc Status is set to 00 (Empty Disc), the Number of First Track field shall be a continued to the first track is the PMA and the first track is an Incomplete Track, the Number of First Track field shall be a continued to the first track is the last session. This is of the first track number of first track number of first track number of the first track number of the first track in the last session. This is inclusive of the invisible track. D1 Disc Status is set to 00 continued the first track is an Incomplete Track, the Number in Last Session the disc is an Incomplete Session, the Number of First Track field shall be a continued to the Number of First Track field shall be an Incomplete Session, the Number of First Track field shall be a continued to the first track in the last session. This is first track number of the		l	011 (621 771 6 () 1	I	E CD 1	
with any valid track number. The track numbers between the first and last track number shall be in contiguous ascending order, except for Lead-out areas. Disc), the Number of First Track field shall be a limited by the first track is an incomplete Track, the Number of First Track field shall be a limited by the first track in the last session. This is inclusive of the invisible track. Poper	1		01h to 63h. The first track number is		For CD media,	
mumbers shall be in contiguous ascending order, except for Lead-out areas. Secondary						
mumber shall be in contiguous ascending order, except for Lead-out areas. 20			•			
secending order, except for Lead-out areas. A Secending order, except for Lead-out areas. Second Secon						
Number of First Track field shall be equal to 1, 3) If the only session on the disc is an Incomplete Session, the Number of First Track field is from the PMA. 4) Otherwise, the Number of First Track field is from the Number of First Track field specifies the type of the first track in the last session. This is first track in the last session. This is first track in the last session. This is first track in the last session which is open may be seanned for READ TRACK NIFORMATION Command, the First Track Number in Last Session (bytes 6 & 11) is the track number of the last track in the last session. This is followed by the parameters have been described by the pa						
Sequel to 1. Sequel to 1. Sequel to 1. Sequel to 1.			ascending order, except for Lead-out			
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use. To record data to the mounted disc the appropriate Initiator Application code shall be set through the Write Parameters Page. An Initiator Application Code of zero may be used to indicate a restricted use disc - general purpose. 93. page 170 The Disc Type field specifies the type of data on the whole disc. 94. page 170 For all discs, the disc type shall be page 170 6.1.18 13th para. 95. page 170 For all discs, the disc type shall be determined from the following sequences: 96. page 170 For all discs, the disc type shall be determined from the following sequences: 97. defined for restricted use. To record data to the mounted disc the appropriate Initiator Application code shall be set through the Write Parameters Page. An Initiator Application Code of zero may be used to indicate a restricted use disc - general purpose. Logical Units that do not read a URU bit from the medium shall set this bit to one. 97. page 170 For all discs, the disc type shall be determined from the following sequences: 98. page 170 For all discs, the disc type shall be determined from the following sequences: 99. page 170 For all discs, the disc type shall be determined from the following sequences: 99. page 170 For all discs, the disc type shall be determined from the following sequences: 99. page 170 For all discs, the disc type shall be determined from the following sequences: 99. page 170 For all discs, the disc type shall be determined from the following sequences: 91. page 170 For all discs, the disc type shall be determined from the following sequences: 91. page 170 For all discs, the disc type shall be determined from the following sequences: 91. page 170 For all discs, the disc type shall be determined from the following sequences: 92. page 170 For all discs, the disc type shall be determined from the following sequences:	1					
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code shall be set through the Write Parameters Page. An Initiator Application Code of zero may be used to indicate a restricted use disc - general purpose. 93. page 170 6.1.18 12th para. 94. page 170 6.1.18 13th para. 6.1.18 13th para. 100 100 100 110 110 110 110 110 110 1						
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93. page 170 The Disc Type field specifies the type of data on the whole disc. 12th para. 94. page 170 For all discs, the disc type shall be determined from the following sequences: 95. page 170 For all discs, the disc type shall be determined from the following sequences: 96. page 170 For all discs, the disc type shall be determined from the following sequence: 11.24	1					
6.1.18 last para. 94. page 170 For all discs, the disc type shall be determined from the following sequences: 95. last para. 96. last para. 11.24 last para. 11.24 type of the data on whole disc. 11.24 last para. 11.24 type of the data on whole disc. 11.24 last para. 11.24 determined from the following sequence: 11.24 last para. 11.24 last para. 11.24 last para. 11.24 last para.	03	page 170	The Disc Type field enecifies the type	nage 300		To add
12th para. 94. page 170 For all discs, the disc type shall be determined from the following sequences: 12th para. 13th para. 13th para. 14th para. 15th para.			• • • • • • • • • • • • • • • • • • • •			
para. 94. page 170 For all discs, the disc type shall be determined from the following sequences: 95. page 170 For all discs, the disc type shall be determined from the following sequence: 11.24 determined from the following sequence: 11.24 lst para. 12.4 determined from the following sequence: 13.4 para.	1					
94. page 170 For all discs, the disc type shall be 6.1.18 determined from the following sequences: For CD disc, the Disc type shall be determined from the following sequence: To change	1			rasi para.		Chacimica data
6.1.18 determined from the following 13th sequences: ADDED Interpretation Interpreta	94	•	For all discs, the disc type shall be	page 310	For CD disc, the Disc type shall be	To change
para. Ist para. Underlined data						
para.		10.1	_		determined from the following sequence.	Underlined data
	1		sequences.			
	95.	page 171	The Disc Identification number	page 310	For CD, the Disc Identification Number	To add

	6.1.18 3rd para.	recorded in the PMA is returned.	11.24 6th para	recorded in the PMA is returned.	ADDED Underlined data
96.	page 171 6.1.18 4th para	The Last Session Lead-in Start Time field is an address given in MSF format as defined in sub-clause 4.1.1. This field shall specify the location of the next Lead-in to be recorded.	page 310 11.24 7th para.	The Last Session Lead-in Start Time field is valid only for CD medium. Otherwise, this field shall be set to 0. This field is an address given in MSF format as defined in sub- clause 4.1.1.	To add ADDED Underlined data
	6.1.18 5th para	iorinat as specified in sub-clause 4.1.1.	page 310 11.24 8th para.	The Last Possible Start Time for Start of Lead-out field is valid only for CD media. Otherwise this field shall be set to 0. This field is returned as the address encoded in the ATIP and it is an address given in MSF format as specified in subclause 4.1.1.	ADDED
	6.1.18 7th para	The Number of OPC Table Entries shall always be zero for CD-ROM discs and for CD-R/RW discs that OPC has not yet been determined.	11.24 last para.	The Number of OPC Table Entries shall always be zero for discs that OPC has not yet been determined. For DVD-R, the use of OPC table entries is vendor-specific.	To add ADDED Underlined data
	page 171 6.1.18 8th para.	Speed is in Kbytes per second.	page 311 11.24 1st para	Speed is in kbytes per second. (1kBytes = 1000Bytes)	To clarify DONE
	6.1.19 4th para.	out) - Address field contains the Field number of RMD block that is recorded in the last Lead-out.	page 313 11.25 11th para.	Field number of RMD block that is recorded in the last Border-out.	To change DONE
	6.1.19	The Layer Number field specifies the starting layer number for the READ DVD STRUCTURE data that will be returned.	page 313 11.25 3rd	The Layer Number field specifies the layer number for the response data returned by the READ DVD STRUCTURE command.	To delete DONE
	page 174 6.1.19 1st para.		page 313 11.25 5th para.	Requests for Format FFh shall always be fulfilled, even if no or incompatible media is installed.	To add ADDED
	6.1.19 1st para.	When a READ DVD STRUCTURE Command is presented for a CD media, this command shall be terminated with CHECK CONDITION status, sense key set to ILLEGAL REQUEST and the additional sense code set to CANNOT READ MEDIUM- INCOMPATIBLE FORMAT.	page 313 11.25 6th para.	When a READ DVD STRUCTURE Command is presented for a CD media, for format codes 00h - FEh, this command shall be terminated with CHECK CONDITION status, sense key set to ILLEGAL REQUEST and the additional sense code set to CANNOT READ MEDIUM- INCOMPATIBLE FORMAT.	To add ADDED Underlined data
	page 174 6.1.19 2nd para.		page 313 11.25 8th para.	the Allocation Length field of the CDB. An Allocation Length field of zero shall not be considerred an error.	To add There is no description regarding Allocation Length field. ADDED Underlined data
	174 Table 229 3rd col.	Type or Feature column	-	[Delete]	To delete DONE
	page 174 Table 229	RMD in last Lead-out	page 314 Table 251 2nd col.	RMD in last <u>Border</u> -out	To change ADDED Underlined data

	2nd col.		11th row		
	11th row		Timilow		
		Reserved	page 314	Layer Number	To change
	Table		Table 251		DONE
	229		3rd col.		
	4th col.		4th row		
	4th row	G. Fill I CDI I	214		T. 1
	page 1/4 Table	Start Field number of Blocks	page 314 Table 251	Start Field number of <u>RMD</u> block	To change ADDED
	229		4th col.		Underlined data
	5th col.		11th row		Undermied data
	11th row		111111011		
109.	page 174	Returns the Field of RMD in the last	page 314	Returns the Field of RMD in the last	To change
	Table	Lead-out	Table 251	Border-out	DONE
	229		5th col.		
	6th col.		11th row		
	11th row	0	215	0.2047	T 1
	page 175 Table	U-n	page 315 Table 252		To change CHANGED
	230		1st col.		CHANGED
	1st col.		130 001.		
		The information for the starting layer	page 315	The information for the layer specified	To delete
		specified by the Layer Number field in	11.25.1	by the Layer Number field in the	DELETED
		the Command Packet and information	2nd para.	Command Packet is returned.	
		for all higher layer numbers is returned.			
112.		When PTP is used each layer is	page 316	When PTP is used each layer is	To change
	6.1.19.1	independent and has its own Lead-in	11.25.1	independent and has its own Lead-in and	DONE
		and Leadoff areas on the media.	5th para.	Lead-out areas on the media.	
113.			page 316	There is only one Lead-in and Lead-out.	To change
	6.1.19.1	•	11.25.1		DONE
	6th para.		5th para.		
		Starting Physical Sector Number Field	page 317		To add
	Table		Table 259	Main Data Field	DONE
	237 caption		caption		
		If the disc has no Lead-in, the Logical	page 313	If the disc has no Lead-in and there are	To add
		Unit shall send default Lead-in Control	11.25	no DVD Control Data is in the cache, the	
			7th para.	Logical Unit shall generate CHECK	
	•	the Lead-in is already written on disc,	•	CONDITION Status, 5/24/00 INVALID	
		the Logical Unit shall read Lead-in data		FIELD IN CDB. If the Lead-in is already	
		from the disc and shall update the cache		written or there are DVD structures in	
		memory.		the cache, the Logical Unit shall return	
		memory.		the requested structure.	
116	page 177		page 317	The Media Specific field may be filled	To add
	6.1.19.1		11.25.1	with all zero data or information as	DONE
	last para.		5th para.	specified in the associated DVD	
				specification.	
117.	page 178	The Region Management Information	page 318	The Region Management Information	To change
	6.1.19.2	field describes the regions in that the	11.25.2	field describes the regions in that the	Added
		disc can be played. Each bit represents	3rd para.	disc can be played. Each bit represents	Underlined
		one of six regions.o		one of eight regions.	
		-		There are currently 6 regions defined.	
				See the DVD Book for more	
				information. Sentence not included	
118.	page 178	DISC KEY Value field returns the	page 318	The DISC KEY Data field returns the	To change
	6.1.19.3	DISC KEY that is obfuscated by a Bus	11.25.3	DISC KEY that is obfuscated by a Bus	DONE
	7th para.	Key.	6th para.	Key.	
			page 320	In the case of DVD-R multi session disc,	T1

	6.1.19.5	disc, this information is taken from the	11.25.5	this information is taken from the last	DONE
			2nd para.	Border-in.	DONE
		RMD in the last Lead-out	page 321		To change
	6.1.19.8	RVID III tile läst Lead-out	11.25.8	RIVID III tile läst Boldel-out	DONE
	caption		caption		20112
		The RMD field recorded in the Last-out		The RMD field recorded in the last	To change
	6.1.19.8	is defined in Table 244.		Border-out is defined in Table 244.	DONE
	4th para.				
		RMD in last Lead-out	page 321	RMD in the last Border-out	To change
	Table		Table 267		DONE
	244	The DMD Dates Call actions the DMD	221	The DMD Dates California de DMD	To about
	6.1.19.8	The RMD Bytes field returns the RMD that is written in the last recorded Lead-	page 321	The RMD Bytes field returns the RMD that is written in the last recorded	To change DONE
		out.	4th para	Border-out.	DONE
		out.	_		T 11
124.			page 322 11.25.9	This format is available only for DVD-R	REJECTED
		specifies the length in bytes of the		inedia. I of outer inedia, unis format is	REJECTED
	zna para.	following DVD STRUCTURE data that is available to be transferred to the	rst para.	reserved.	
		Is available to be transferred to the Initiator.		The DVD STRUCTURE Data Length	
		mmator.		specifies the length in bytes of the following DVD STRUCTURE data that	
				is available to be transferred to the	
				Initiator.	
125	naga 197	M*4 + 40	page 326	M*4 + 41	To change to
	Table	W ⁴ + 40	Table 275	M*4 + 41	correct number
	252		21st row		DONE
	21st row				DONE
		M*4 + 40	page 326	M*4 + 42	To change to
	Table		Table 275		correct number
	252		22st row		DONE
	22nd row		22.5		-
127.	page 187 Table	M*4 + 40	page 326 Table 275	M*4 + 43	To change to correct number
	252		23st row		DONE
	23rd row		233t 10W		DONE
		Readable DCB M-1	page 327	Recordable DCB 0	To change
	Table		Table 275		DONE
	252		Byte		
	Byte		M*4+44 -		
	M*4+44		M*4+47		
	- N/1*/1://7				
120	M*4+47	Readable DCB N-1	page 327	Recordable DCB N-1	To change
	Table	INCAGAULE DCD IN-1	Table 275	Recordance DCD IN-1	DONE
	252		Byte		2 31,12
	Byte		(M+N)*4		
	(M+N)*4		+40 -		
	+40 -		(M+N)*4		
	(M+N)*4 +43		+43		
		Formatted Media. The reported value is	nage 330	Formatted Media. The reported value is	To add
130.	6.1.20.	the current media's capacity. In the case		the current media's capacity. In the case	10 auu
		of sequential writable media, the num-	Table 283	of sequential writable media, the number	ADDED
	260	ber of blocks field indicates the number			Underlined
		of blocks between the first Lead-in and		blocks between the first Lead-in and the	
		the Lead-out. When the media has no		last Lead-out or Border-out. When the	
		closed session it shall be reported as		media has no complete session it shall be	
		"No Media Present" with Descriptor		reported as "No Media Present" with	
		Type = 11b.		Descriptor Type = 11b.	
		11 Jpc - 110.	l	pescriptor Type – TTO.	l

101	104		222	TD1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	m 11
	page 194 6.1.20.		page 333 11.26	This command is not mandatory for all drive types shown in Table 263; the table	To add ADDED
	under		1st para.	indicates the values returned if the	INDULD
	Table		_	command is implemented.	
	263		2	*	m 11
			page 345		To add
		Command (Table 287) requests that the	11.29. 1 - 2nd	(Table 287) requests that the <u>CD</u> Logical	Underlined
	1st para.	Logical Unit transfer data from the Table of Contents, the Program	para.	Offit transfer data from the Table of	Chacrimea
		Memory Area (PMA), and the Absolute	r	Contents, the Program Memory Area (PMA), or the Absolute Time in Pre-	
		Time in Pre-Grove (ATIP).		Grove (ATIP) from CD media.	
		Time in the Grove (ATTI).		For media that does not support a TOC,	
				this command will return fabricated	
				information that is similar to that of CD	
				media for some formats. This fabrication	
				is required for some legacy Initiator	
				environments.	
		The response data returned for Format	page 348	None of the fields in the result data of	To add at previous
	6.1.24.4. 1st para.	0010b is specified in Table 292.	11.29.3. last para.	Format 2h are affected by the MSF bit in	ADDED Underlined
	ısı para.		rasi para.	uic CDD.	Onuel imeu
				The response data returned for Format	
134	nage 210	Multiple TOC Track Descriptors may	page 349	0010b is specified in Table 292. Multiple TOC Track Descriptors may be	To add
134.	6.1.24.4.	be returned.	11.29.3.	returned, but only one of each entry is	DONE
	2nd para	be returned.	1st para.	reported.	20112
135.	page 210	For Format field of 1000b,	-	For Format field of 0010b,	To change
	6.1.24.4.	2 of 1 of 1.0.0 of 10000,			DONE
	3rd para.				
			page 349	Entries in bytes 2 through 10 of the	To change
		descriptors (TNO, POINT, MIN, SEC,	11.29.3. 3rd para.	descriptors (TNO, POINT, MIN, SEC,	DONE
	_	FRAME, PMIN, PSEC, PFRAME,	from last	FRAME, PMIN, PSEC, PFRAME, Zero)	
		Zero) shall be converted to binary by the Logical Unit if the media contains a		shall be converted to <u>hex</u> by the Logical Unit if the media contains a value	
		value between 0 and 99bcd. (See		between 0 and 99bcd. (See 4.2.2.6.)	
		4.2.2.6.)		between 6 and 556ed. (See 4.2.2.6.)	
137			page 349	The TOC data within a session is	To change
		arranged in the order of Q Sub-channel	11.29.3.		DONE
		POINT field value of A0h. A1h. A2h.	2nd para.	Point field value of A0h-AFh, Track	
		Track Numbers, Don, Din, Dzn, Dzn,	from last	Numbers, <u>B0h-FFh. Only recorded</u>	
		B4h, C0h, and C1h.		Points shall be returned.	
			page 350	-	To add
		0011b is specified in Table 296.	11.29.4.	Format 0011b are affected by the MSF	ADDED Underlined
	1st para.		1st para.	of in the CDD.	Onucimicu
				The response data returned for Format	
120	nage 212	Entries in bytes 2 through 10 of the	page 351	0011b is specified in Table 296.	To change
		descriptors (TNO, POINT, MIN, SEC,	page 331 11.29.4.	Entries in bytes 2 through 10 of the descriptors (TNO, POINT, MIN, SEC,	DONE
		FRAME, Zero) shall be converted to	last para.	FRAME, Zero) shall be converted to hex	
		binary by the Logical Unit if the media		by the Logical Unit if the media contains	
		contains a value between 0 and 99bcd.		a value between 0 and 99bcd. (See	
L		(See 4.2.2.8.2.)		4.2.2.8.2.)	
			page 351		To add at previous
		0100b is specified in Table 297.	11.29.5.	of the collection of the type	ADDED
	1st para.		1st para.	of in the CDD.	Underlined
				The response data returned for Format	
1				0100b is specified in Table 297.	

141	page214	ATIP Start time of Lead-in (min, sec,	page352	ATIP Start time of Lead-in (min, sec,	To change
		frame) - the start time of the Lead-in.	11.29.5	frame) - the start time of the Lead-in.	DONE
		The value is read from ATIP and	4th para.	The value is read from ATIP and	201,2
	_	returned in binary format. Legal values	from last	returned in <u>hex</u> format. Legal values for	
		for the M field are 50h through 63h.		the M field are 50h through 63h.	
1.42		ATIP Last Possible Start Time of Lead-	252		To change
			11.29.5		DONE
		out (min, sec, frame) - the last possible start time of Lead-out. The value is read		out (min, sec, frame) - the last possible	DONE
	_		from last	start time of Lead-out. The value is read	
		ironi Arif and returned in omary		from ATIP and returned in hex format.	
		format. Valid values for the M field are		Valid values for the M field are 0	
		0 through 4Fh.	2.52	through 4Fh.	
		The response data returned for Format	page 353.	F	To add
		0101b is specified in Table 300.	11.29.6.	Format 0011b are affected by the MSF	ADDED
	1st para.		12th para.	on in the CDD.	Underlined
				The response data returned for Format	
				0101b is specified in Table 300.	
	page 216		page 359	In case of media that does not support	To add
	6.1.26		11.30	logical tracks, the number of track and	ADDED
	1st para.		1st para.	session is considered one. If this	
				command is required by an implemented	
				Feature, this command shall function if	
				any media is present.	
				For CD, if the PMA/TOC is unreadable,	
				the command shall be terminated with	
				CHECK CONDITION Status, 3/57/00	
				UNABLE TO RECOVER TABLE-OF-	
				CONTENTS.	
				For DVD, if the RMA/RMD in Border-	
				out is unreadable, the command shall be	
				terminated with CHECK CONDITION	
				Status, 3/11/05 L-EC	
				UNCORRECTABLE ERROR.	
	page 216	Track	page 359		To change the field
	Table		Table 323		name and extend
	302		Byte 1 Bit		1 bit
	Byte 1		0-1		DONE
	Bit 0	I 1 D1 1 - A 1.1 - //P - 1 //P - 1 .	0.50	Tarial Diagla A 11 //D 1/G 1	T. 1
			page 359		To change the field
	Table 302	Number	Table 323	Number	name
	302 Byte 2-5		Byte 2-5		DONE
	_	The Treek bit in buts 1 is used to	page 359	The Address/Number Type field in hit	To change
14/.		The Track bit in byte 1 is used to	page 359 11.30	The Address/Number Type field in byte	To change DONE
		specify the contents of bytes 2 through	4th para.	1 is used to specify the contents of the	DONE
		5 of the CDB.	rui para.	bytes 2 through 5 of the CDB.	
148.		If the Track bit is set to zero, then	-	[Delete]	To delete
		bytes 2 through 5 contain a Logical			DONE
		Block Address. If the Track is set to			
		one, then bytes 2 through 5 contain a			
		Track number.			
149.	page 216	The Logical Block Address/Track	page 359	The Logical Block	To change
		Number field, Bytes 2 through 5 are	11.30	Address/Track/Session Number field,	Changed as
		defined in Table 303.	5th para.		Modified
				303.	
150	nage 216	LBA/Track Number field definition	page 359		To change
	Table	EDA HACK NUMBER HER UEHIRUUH	Table 324		Changed as
	303		caption		Modified
				1	

	caption				
151.		Track Bit	page 359 Table 324 1st col. 1st row	Address/Number Type Value	To change DONE
	page 216 Table 303 2nd col. 1st row	Logical Block Address/Track Number	page 359 Table 324 2nd col. 1st row	Logical Block Address/Track/Session Number field	To change Changed as Modified
		Track Number Used for Track Information	page 359 Table 324 3rd col. 1st row	Description	To change DONE
	page 216 Table 303 3rd col. 5th row		page 359 Table 324 3rd col. 5th row	T_{INV} , where T_{INV} is the Track number of the invisible <u>or incomplete</u> Track	To add ADDED Underlined
155.	page 216 Table 303		page 359 Table 324 1st col. 6th row	2	To add DONE
	page 216 Table 303		page 359 Table 324 2nd col. 6th row	Session Number	To add DONE
	page 216 Table 303		page 359 Table 324 3rd col. 6th row	$T_{session}$, where $T_{session}$ is the number of the first Track which is in the Session Number.	To add DONE
	page 216 Table 303		page 359 Table 324 1st col. 7th row	3	To add DONE
	page 216 Table 303		page 359 Table 324 2-3rd col. 7th row	Reserved	To add DONE
	page 216 6.1.26 last para.		page 359 11.30 last para.	Note: The Address/Number Type 2 is easy way to recognize UDF-Bridge file system that specified by DVD-ROM Book Part2.	To add REJECTED – Not required in a standard
	page 216 6.1.26 last para.		page 360 11.30 1st para.	Fields not used with the loaded media shall return 0.	To add DONE
162.			page 360 Table 325 Byte 2	Track Number (LSB)	To add REJECTED
163.			page 360 Table 325 Byte 3	Session Number (LSB)	To add DONE
164.	page 217 Table 304 Byte 6 Bit 5		page 360 Table 325 Byte 6 Bit 5	Packet/Inc	To add DONE

page 217 Table 304 Byte 7 Bit 1	Reserved	page 360 Table 325 Byte 7 Bit 1	LRA_V	To change DONE
Table 304 Byte 20- 23	Fixed Packet Size	Table 325 Byte 20- 23	Fixed Packet Size / Blocking Factor	To add DONE
page 217 Table 304 Byte 28- 31		page 360 Table 325 Byte 28- 31	Last Recorded Address	To add DON E
page 217 Table 304 Byte 32		page 360 Table 325 Byte 32	Track Number (MSB)	To add DON E
page 217 Table 304 Byte 33		page 360 Table 325 Byte 33	,	To add DONE
page 217 Table 304 Byte 34- 35		page 360 Table 325 Byte 34- 35	Reserved	To add DONE
6.1.26 3rd para.	Track Number is the track number for all of the information in this structure.	page 361 11.30 2nd para.	Track Number is the track number for all of the information in this structure, or 1 for media not containing logical tracks.	DONE
6.1.26 4th para.	Session Number is the number of the session containing this track.	page 361 11.30 3rd para.	session containing this track, or 1 for media not containing sessions that contains this track.	To add DONE
page 217 6.1.26 5th para.		page 361 11.30 4th para.	this bit shall be set to zero.	To add to Copy bit description DONE
6.1.26 1st para.	The Damage bit, when set to one, and the NWA_V is set to zero, the track shall be considered "not closed due to an incomplete write." An automatic repair may be attempted by the drive when the CLOSE TRACK/SESSION command is issued.	page 361 11.30 5th para.	the NWA_V is set to zero, the track shall be considered "not closed due to an incomplete write." An automatic repair may be attempted by the Logical Unit when the CLOSE TRACK/SESSION command is issued. Further incremental writing in this track is not possible.	
6.1.26 1st para.	The Damage bit, when set to one, and the NWA_V is set to one, an automatic repair may be attempted by the drive when the next command that requires writing to the track is issued. If the repair is successful, the Damage bit shall be set to zero.	page 361 11.30 6th para.	The Damage bit, when set to one, and the NWA_V is set to one, indicates a Track that may be recorded further in an incremental manner. An automatic repair shall be attempted by the device when the next command that requires writing to the Track is issued. If the repair is successful, the Damage bit shall be set to zero. Prior to the start of the repair, the NWA field shall contain the address of the Next Writable Sector assuming a successful repair.	To add DONE

177.	6.1.26 3rd para.	If the RT bit is zero, then the track is not reserved, otherwise the track is	page 361 11.30 7th para. page 361 11.30 8th para	For CD, if the RT bit is zero, then the Track is not reserved, otherwise the Track is reserved. The RT bit indicates that a PMA entry indicating the track's start and end addresses exists. For DVD, the RT bit of zero indicates that the Track is Complete, Invisible, or Incomplete status. The RT bit of one indicates that the Track is Empty Reserved or Partially Recorded Reserved status. If the Logical Unit is not capable of reading the PMA or RMA, this field	To add to Track Mode field description ADDED To add ADDED Underlined
	6.1.26 4th para.	The Blank bit, when set to one, indicates that the track contains no written data. Tracks with the Track Descriptor Block recorded shall not be considered blank.	page 361 11.30 11th para.		To add ADDED Underlined
	6.1.26 5th para.	The Packet bit is valid only when the RT bit is set to one or the track indicated is the incomplete track. The Packet bit, when set to one, indicates that this track is to be written only with packets.	page 361 11.30 12th para.	when the RT bit is set to one or the track	To add ADDED Underlined
	6.1.26 6th para.	when the Packet bit is set to one. When the Packet bit is set to one and the FP bit is also set to one, then the track is to be written only with fixed packets. When the Packet bit is set to one and the FP bit is set to zero, then the track is to be written only with variable packets.		For CD media, the FP (Fixed Packet) bit is valid only when the Packet/Inc bit is set to one. When the Packet/Inc bit is set to one and the FP bit is also set to one, then the track is to be written only with fixed packets. When the Packet/Inc bit is set to one and the FP bit is set to zero, then the track is to be written only with variable packets. Except for C/DVD-R/RW media, this field should be zero.	ADDED Underlined
	page 218 Table 305 5th col.		page 362 Table 326 4th col.	[Table 326]	To replace 4th column of Table Done
182.	page 218 6.1.26 last para.	When RT, Blank and Packet bits are set to one, FP bit of a READ TRACK Information result data is set to zero.	page 362 11.30 1st para.	TRACK Information result data is set to zero.	Underlined
	page 219 6.1.26. Table 306	[Table 306]	page 363 11.30. Table 327		To replace whole Table 306 with Table 327 of Mt.Fuji3 Done
184.	page 219	NWA_V shall be set to zero if the	page 363	NWA_V shall be set to zero if the Track	To add LRA_V

185.	2nd para. from last page 220 6.1.26. 1st para.	The Next Writable Address, if valid, is the LBA of the next writable user block in the Track specified by the LBA/Track Number field in the CDB. Next Writable Address shall be associated with the RT, Blank, Packet and FP bits as defined in Table 308.	11.30. 3rd para. from last page 363 11.30. 1st para. from last	If LRA_V is zero, then the Last Recorded Address field is not valid. Otherwise, the Last Recorded Address field is valid. The LRA_V bit shall be set to zero if the Track has damage for any reason and is repaired automatically. The Next Writable Address, if valid, is the LBA of the next writable user block	description ADDED Underlined To add ADDED Underlined
	6.1.26.	The Free Blocks field represents the maximum number of user data blocks available for recording in the track. This field shall be computed as follows:	page 364 11.30. 2nd para.	maximum number of user data blocks available for recording in the track. For CD media, this field shall be computed as follows:	To add ADDED Underlined
	6.1.26. 5th para.	The Fixed Packet Size is valid only when the Packet and the FP bits are both set to one.	page 365 11.30. 1st para.	For CD, the Fixed Packet Size is valid only when the Packet and the FP bits are	To add ADDED Underlined
	6.1.26. 7th para.	Track Size is the number of user data blocks in the track. The track size shall be computed as follows: First, compute the Complete Track Size (CTS).	page 365 11.30. 3rd and 4th para.	orders in the track.	To add ADDED Underlined
	6.1.26. 4th para. from last	provide certain valid fields for a disc with the Unrecordable status: Track Number, Session Number, Track Mode, Data Mode, Track Start Address.	7 - 6th para. from last	address of last written user data sector of the specified Track. Note: READ TRACK INFORMATION	To add Rejected. Comment is not necessary for this text.
	6.1.26. 3rd para.	exact for the tracks that do not have a	page 365 11.30. 5th para. from last	not have a PMA entry. The track size, of tracks that do not have PMA entries, is calculated as follows:	To add Added
	6.1.29. 1st para- graph	For DVD, when the Write type is Session-at-Once, this command is also used to specify the size of user data.		determined by the settings of the Write Parameters mode page. Table 325 specifies the Track sizing.	To modify Modified as Requested
	6.1.29. Table 325	[Table 325]	page 381 11.34. Table 355		To replace whole Table 325 with Table 355 of Mt.Fuji3 Done To add
		If the last track, defined in the PMA, is N, then the invisible track is assigned		If the last track, defined in the PMA/RMA, is N, then the invisible track	

	1st para.	track number N+1.		is assigned track number N+1.	
194.	page 230 6.1.29. 4th para. from last	For DVD, maximum reserved Tracks that can be reserved are limited to two at the same time. Attempting to reserve Track when two Tracks are already reserved,	-	For DVD, maximum reserved Tracks that can be reserved are limited to two at the same time. Attempting to reserve Track when two empty/partially recorded reserved tracks are already reserved,	To add Done
	6.1.29. 2nd para- graph from last	Reserving a track when the Write Type is set to packet (See Table 118) shall cause the TDB to be written.	-	,	To add Done
	page 243 6.1.32.1. Caption		page 398 11.38.1. Caption	User Specific Data	To modify Done
	6.1.32.1. 1st para	The Author's Information field (Format code 04h, Table 349) contains user specific data. This data shall be stored in the RMD Field-2 and when attempting to write the Lead-in, the contents of this field shall be written in the Disc manufacturing information field of Lead-in.	_		To change Done
	6.1.32.1. 2nd para	The DVD STRUCTURE Data Length field specifies the length in bytes of the Author's Information data to follow. A DVD Structure Data Length field of zero indicates that no Author's Information data shall be transferred. This condition shall not be considered an error.	-	The DVD STRUCTURE Data Length field specifies the length in bytes of the User Specific Data to follow. A DVD Structure Data Length field of zero indicates that no User Specific Data shall be transferred. This condition shall not be considered an error.	To modify Done
		The time should be current GMT 24 hour clock.	page 399 11.3.8.3 5th para.		To modify Done
		Table 352 defines data format code 30h.	-	0.1.32. T. Bise Control Block	To add section Done
201.	page 260 6.1.40. 1st para.	This command assures all remaining data in the data buffer has been written to the media.	11.3 1st para.	data in the data buffer has been written to the media. Logical blocks are not necessarily removed from the cache memory as a result of the cache flush operation.	
	6.1.41. 2nd para.	one, indicates that the Logical Unit		The Disable Page Out (DPO) bit is not used by C/DVD Logical Units and shall be set to zero. A DPO bit of zero indicates the priority shall be determined by the retention priority fields in the cache page if supported. All other aspects of the algorithm implementing the cache memory replacement strategy are vender specific.	To change Done

		strategy are not defined by this			
		International Standard. The drive may			
		ignore this bit.			
		NOTE : The DPO bit is used to control			
		replacement of logical blocks in the			
		cache memory when the Initiator has			
		information on the future usage of the			
		logical blocks. If the DPO bit is set to			
		one, the Initiator knows the logical			
		blocks accessed by the commandeer not			
		likely to be accessed again in the near			
		future and should not be put in the			
		cache memory nor retained by the			
		cache memory. If the DPO bit is zero,			
		the Initiator expects that logical blocks			
		accessed by this command are likely to			
		be accessed again in the near future.			
203		If, during streaming, a WRITE	_	For CD-R/RW media, if, during	To add
		command is issued for packet writing			Done
		with an LBA = NWA+7 the drive shall		for packet writing with an LBA =	-
	c 1 .	begin a new packet.		NWA+7 the drive shall begin a new	
		begin a new packet.		packet.	
204	nage 262	The block size shall be determined by		1	To add
ZU4.		the write parameters mode page (if in			Done
				shall be determined by the write	Done
		track at once, packet, or raw mode) or		parameters mode page (if in track at	
		by the cue sheet (session at once mode).		once, packet, or raw mode) or by the cue	
205	262	2) V	126	sheet (session at once mode).	To add
		3) Variable Packet: If insufficient space		e, taraere raenen riie Eegrear eint	10 add Done
	0 1	exists for another variable packet within	1st para	shan perform miking. (DVD)	Done
	_	a reserved track, the Logical Unit shall	1st para	If insufficient space exists for another	
		pad the packet such that it fills the		variable packet within a reserved track,	
		track. Otherwise, the Logical Unit shall		the Logical Unit shall pad the packet	
		write run-out and link blocks.		such that it fills the track. Otherwise, the	
				Logical Unit shall write run-out and link	
200	2.0	5\ D 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	400	blocks.(CD)	T 11
		5) Raw mode: The Logical Unit shall	page 426 11.48	,	To add
		write run-out and link blocks. The	8th para.		No Change
	ora para.		om para.	Logical Unit shall read the TOC and	
		track information from the session just		track information from the session just	
		written and update the PMA. It is		written and update the PMA. It is	
		assumed that the Initiator has written		assumed that the Initiator has written the	
207		the Lead- out.	407	Lead- out.(CD)	T 11
		6) WRITE with the NWA in the current		-,	To add Done
	6.1.41. 2nd para.	track.	8th para.	u ack.	Done
	zna para.		om para.	7) GET CONFIGURATION	
				8) GET EVENT/STATUS	
				NOTIFICATION	
		All other commands shall execute	page 427		To add
		normally, but may force a	11.48.	normany, but may roree a	Done
	2nd para. from last	SYNCHRONIZE CACHE.	2nd para. from last	SYNCHRONIZE CACHE before	
	ii Oiii Iast		ii Oili iast	executing. The process of writing from	
				the Logical Unit's cache to the medium	
				shall not cause a NOT READY	
				condition for any command. CHECK	
	1		1	CONDITION Status, 2/04/08 LOGICAL	İ

	UNIT NOT READY, LONG WRITE IN
	PROGRESS may exist when the Logical
	Unit is padding a reserved track or
	writing Lead-in and Lead-out.