Attendees:

Kazuo Nakashima – Fujitsu

Dan Colegrove – IBM
Tim Bradshaw – Iomega

Pete Mclean – Maxtor
John Nels Fuller – Microsoft

Mike Bryan – Seagate
Anthony Fung – SGS Thompson

Dave Evans – Symbios
Jeff Cousins – Syquest Technologies

introduced themselves and the attendance sheet was circulated. Pete explained that htis was an authorized working group meeting of T10 and operated under NCITS rules.

3. Minutes from the last meeting (T10/98-139R0) were accepted as written. Old action items - Iomega was to get new rev of removable commands to Mike Bryan and he was to turn a new rev of the document. Both

4. The project T10/1240D was approved for this committee. Next rev of the document will have this number and be and official document.

set. Seems like some things ought to be covered generically.

Clause 5, pg 29 electronically covers this command set. The READ(10) and READ CAPACITY commands

additional for removable. The other option is to group them and make exceptions for each as needed. It would just a matter of cutting and pasting the information. The concerns are stating that the command set is

It was proposed that a single table in section 4 can have a column added and put removable/hard drive mandatory. Steve Finch would like the commands combined into one area for ease of reference. The

combine the tables.

Summary: Clause 5 disappears, put clause 6 inside the document referencing the related SPC documents and

Pete McLean recommends a page by page editorial review starting at the forward.

Mike Bryan states he uses 'device' in all places, not target and initiator. Consensus was to leave devices.

Mike Bryan made most of these changes, as they were recommended, during the meeting

Scope 1.1 – Pete McLean proposed adding 'required' SPC-2 commands, first sentence.

References Under Development 2.2 – Steve Finch proposed adding T10 project 1228D Multimedia

3.3.2. command block Mike Bryan proposed deleting the second sentence. Pete McLean proposed changing this all together to CDBs, not ORBs. Recommended that Mike Bryan copy the definition from SBC.

SBP only protocol. He is worried that would create contingent allegiance, John Nels Fuller agreed. Take everything after the first two sentences and move them to other appropriate areas of the document (relating

3.3 Abbreviations – add MMC-2 and SPC-2.

Section 4 Reduced Block Commands For All Devices - change to Reduced Block Commands. Also scratch

Section 4.2 READ CAPACITY command - The block length in bytes and the logical block address of the last

4.3 START STOP UNIT command – Steve Finch requested adding a simple table for priorities regarding the

paragraph just above. This allows definition of the bits before referencing them.

spelled correctly) was to get back with the committee on these time frames. John Fuller proposed we put in

4.3 START STOP UNIT command – Change paragraph under power states to: "Prior to entering the Sleep

the last paragraph "If the START STOP UNIT.." under Sleep (state 5).

function may also be required…" - before Table 8.

discussion was over how much clarification was needed. Mike Bryan will clarify and reword the paragraph.

4.7 MODE SELECT/SENSE page parameters – Since this is not a command, should it be moved into a sub-commands. Also, Removable/Rewriteable devices are now called Removable.

an error of Logical Unit Not Ready shall be returned.

5.1.2 READ CAPACITY command – Add 'If no media is in the drive it responds with Logical Unit Not

5.1.3. START STOP UNIT command – The request was to clarify the If statements with a state diagram.

Start/Stop. Should be moved under the 'While' paragraph on page 20.

from Write Caching" added to the WCD bit description.

Pete McLean asked if these commands and codes will need to be passed before the main committee, this was confirmed. Most of the codes were created by Iomega and should not conflict with current SPC codes. Tim Bradshaw and Darrell Redford took an action item to check with Ralph Weber and verify the codes are alright to use. Information will be passed to Mike Bryan. The rest of the codes were asked to be skipped over until the correct numbers are confirmed.

Steve Finch asked that for SBP-2 types of devices that Bus Resets of various types, and how the device responds to them, need to be covered in Annex A. Scratch the last sentence right before 5.2.2.

5.2.2 PREVENT/ALLOW MEDIUM REMOVAL command – Steve Finch and John Fuller recommend that a table be added for the Lock functionality of Persistent and Prevent bits. In the last paragraph before Table 15 the reference needs to be changed from 'Table 5' to Table 15.

5.4 MODE SELECT(6) – Change to read "Removable media may be set this bit to zero" instead of cleared.

5.5 MODE SENSE(6) – Change to read "may set this bit to zero" instead of cleared.

5.6 INITIAL RESPONSE – Strike the sections a), b), and c) since they are already covered above. Move section d) to UNSOLICITED STATUS. Move this section to Annex B and call it Initial Response for Removable Device

5.8 DEVICE FAILURE reporting – move to Annex B

6.1 INQUIRY command – State that if the transport layer supports Asynchronous Event Reporting Capability, the AERC bit shall be set to one.

6.2 MODE SELECT(6) command - Change the last paragraph to state that device shall IGNORE – removing NOT validate.

6.3 MODE SENSE(6) command - For backward compatibility issues a page code of 3Fh shall also returns the 06h page code, the only page code RBC device have.

6.4 TEST UNIT READY command – The second sentence in the first paragraph was deleted. In the second paragraph change UNSOLICITED STATUS to Asynchronous Event Status Notification in SBP-2 - see Annex B.

Need clarification on SMART values – remove 'preferred.' Move SMART information to the SMART ASCQ definition. Also the note should be inside the box on the table.

Table 23 – SMART ASCQ XY definitions, Ralph Weber says to change the Description for ASCQ X values 8 – F to Vendor Specific.

Annex A

Label A.1, A.1.1 and A.1.2 as INFORMATIVE, all other parts are NORMATIVE.

Power Register issues were brought up by Mike Bryan, no resolution or direction was taken.

Mike Bryan will add a statement referring to SBP-2 for a description of all the fields in the tables of the Annex.

Annex B

Miscellaneous changes, mostly just editorial fixes were recommended. Also, once the values are returned as assigned to action items for Iomega, they will be inserted into the document.

Clarification on tables, fields, and duplicity were verified.

Mike Bryan will add a table to clarify the Door Open, Media Present bits.

5. Action Items
John Fuller – check on the times for START/STOP UNIT commands are reasonable and not too liberal.
Tim Bradshaw – List status field & sense codes. Check with Ralph Weber on usage and write proposal to Ralph to make changes in SPC-2 & SAM-2.
Mike Bryan – Turn new revision – 1240D rev 0.

6. Pete McLean made the call for patents. There were no responses.

7. Next meeting will be July 14th, Tuesday, 9-5pm at the Holiday Inn in Portland, Maine.

8. The meeting was adjourned.