

Draft Minutes
T10 SSC-2 Working Group Meeting
September 10, 2001 – Huntington Beach, CA
11:05 AM – 3:00 PM

A joint ad hoc meeting of the SSC-2 working group of NCITS Technical Committee T10 was held at Huntington Beach, CA, on September 10, 2001, in conjunction with the plenary meeting of the ANSI/NCITS T10 Technical Committee. Attendance at this meeting is tabulated at the end of this document.

1. Opening remarks and introductions: Dave Peterson

Facilitator Dave Peterson opened the meeting at 11:05 AM. He thanked our host company, QLogic, for the facilities. He led a round of introductions.

2. Approval of this agenda: T10/01-272r0 Dave Peterson

Unscheduled discussion items were added; see 6 below.

3. Approval of minutes

- 3.1 SSC-2 Minutes – July 16, 2001 T10/01-209r0 Paul Suhler
Accepted with no changes.

4. Review of Old Action Items: T10/01-272r0 Paul Suhler

- 4.1 **Dave Peterson:** Investigate ramifications of obsoleting data compression in Device Configuration mode page (10h). Send reflector message. **Done.**
The SELECT DATA COMPRESSION ALGORITHM field in the Device Configuration mode page shall be ignored if the Data Compression mode page is received in the same MODE SELECT command.
- 4.2 **All:** Determine what is currently done and what should be done if a target that does not support command queuing receives a tagged command. **Done.**
STK accepts, others do not. Not a problem in SPI. Discuss in CAP working group.
- 4.3 **Dave Peterson:** Add 01-083r1 changes in SSC-2 rev. 5.
Make reservation table changes in SSC-2 rev. 5. **Done.**
- 4.4 **Dave Peterson:** Update state diagram. **Done.**
- 4.5 **Dave Peterson:** Design common format for eight-byte fields in 16-byte CDBs and do 4-byte transfer length if possible. **Done.**

- 4.6 **All:** Determine how drives which do not support unloading at EOT will behave when the LOAD UNLOAD command has LOAD = 0 and EOT = 1. **Done.** Some ignore, some reject the command. Decided to make the check condition mandatory.
- 4.7 **Paul Suhler:** Identify misaligned field labels cited in Seagate comment 20 and inform Dave Peterson. **Done.**
- 4.8 **Dave Peterson:** Reconcile fixed block sizes. **Done.** In read block limits command, reword "fixed block mode" to refer to fixed block transfers. Add definition.
- 4.9 **Rob Elliot:** Forward his solution to long residuals to Dave Peterson. **Done.** Solution needs to be analyzed and incorporated.

5. Discussion items: Dave Peterson

- 5.1 LOCATE(16): Discussed whether to add a bit to the command to specify whether it is an implicit or explicit mode command.
A simple overview state transition diagram is needed.
Decision: No longer require a LOCATE(16) before the first WRITE in a sequence of WRITES. Instead put punctuation marks in WRITE(16) and WRITE FILEMARKS(16) to indicate that the WRITE is the first and/or last in a sequence of WRITE [FILEMARKS]s. Both bits may be set in the same command. Once a write command is enabled with the FIRST bit set, no media access commands other than WRITE [FILEMARKS] may be enabled until a WRITE [FILEMARKS] command with the LAST bit set is enabled. MODE SELECT commands also may not be enabled in that period, in order to avoid changes to partition, compression, etc.
- 5.2 Obsolete CAP Bit (T10/01-281r0). Decided to obsolete the CHANGE ACTIVE PARTITION bit based on responses to reflector message.

6. Unscheduled New Business: Dave Peterson

- 6.1 Paul Entzel, clause 7.4, Definition of Fixed Block Mode.
- 6.2 Paul Entzel: clause 4.2.10, Progress Indication. Wants to get rid of requirement to have IMMED = 1. Needs a proposal.
- 6.3 Paul Entzel: clauses 5.7 and 6.9, Write Filemark Immediate in Unbuffered Mode. If the IMMED bit is set and the device is not in unbuffered mode, return Check Condition with ASC/ASCQ of INVALID FIELD IN CDB. (The clauses are the descriptions of WRITE FILEMARKS (6) and (16).)

7. Next meeting requirements: Dave Peterson

- 7.1 No time will be requested at the T11 plenary in October 2001.

- 7.2 Four to six hours will be requested in the T10 plenary in November 2001.
- 7.3 There will be a phone conference prior to the next T10 plenary week.

8. Review of new action items: Paul Suhler

- 8.1 **Dave Peterson:** Devise alternative wording for “fixed block mode” in section 7.4.
- 8.2 **Dave Peterson:** Re-word the description of the SELECT DATA COMPRESSION ALGORITHM field in the Device Configuration mode page to have it ignored if the Data Compression page is sent in the same MODE SELECT command. (See 4.1.)
- 8.3 **Erich Oetting:** In the CAP working group, discuss handling of queued commands if the device server does not support queuing. Decide what behavior is correct. (See 4.2.)
- 8.4 **Dave Peterson:** Add wording to the LOAD UNLOAD command description to reject commands with LOAD = 0 and EOT = 1 if the device does not support unloading at EOT. (See 4.6.)
- 8.5 **Dave Peterson:** Implement changes to WRITE(16) and WRITE FILEMARKS(16) to include FIRST COMMAND IN SEQUENCE and LAST COMMAND IN SEQUENCE bits. Revise state transition diagrams accordingly. Add overview figure of state transition diagram. (See 5.1.)
- 8.6 **Paul Entzel:** Submit proposal to not require IMMED = 1 in clause 4.2.10, Progress Indication. (See 6.2.)
- 8.7 **Dave Peterson:** Incorporate changes to clauses 5.7 and 6.9 to require a check condition and to specify the ASC/ASCQ if the IMMED bit is set when the device is not in unbuffered mode. (See 6.3.)
- 8.8 **All:** Review SSC-2 rev. 5.
- 8.9 **Dave Peterson:** Organize phone conference prior to next T10 plenary week.

9. Adjournment: Group

The meeting was adjourned at 3:00 PM.

T10 SSC-2 Working Group Meeting Attendance – September 10, 2001

Company Represented	Last Name	First Name	Email
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