To: T10 Technical Committee
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Subject: T10/06-008r0 SAT: TEST UNIT READY Translation

Revision History
Revision 0 - Initial draft of document

Related Documents
SAT (T10/1711-D) Revision 7

1 Overview

This proposal replaces the existing text for TEST UNIT READY to conform to the changes made to SAT since the TEST UNIT READY clause was first written. The proposal covers the requirement that the SATL track the current stop or start state of the represented device as well as other conditions that TEST UNIT READY may be used to check for (e.g. removable media not present).

2 Document Changes

2.1 Changes to SAT (T10/1711-D r7)

Replace clause 8.12 with the following

8.12 TEST UNIT READY Command

2.1.1 TEST UNIT READY Command Translation

The TEST UNIT READY command is used by application clients to query if a SCSI device is ready or not. The SATL shall take actions or respond based on internal SATL state information as specified in this subclause.

Table 1 — TEST UNIT READY CDB Fields

Field	Description or Reference
OPERATION CODE	Unspecified (see 3.4.3)
CONTROL	See 6.4

Upon receipt of the TEST UNIT READY command, the SATL shall:

1) If the underlying ATA device supports the removable media feature set, the SATL shall issue a GET MEDIA STATUS command to the attached ATA device. If the device reports an error with the NM bit set, the SATL shall return CHECK CONDITION status, with a sense key set to NOT READY, and an additional sense code of MEDIUM NOT PRESENT.
2) If the device was previously stopped through a START STOP UNIT command (see 9.10), the SATL shall complete the TEST UNIT READY command with CHECK CONDITION status, with a sense key set to

NOT READY, and an additional sense code of LOGICAL UNIT NOT READY, INITIALIZING COMMAND REQUIRED.

3) If the last ATA command issued to the device completed with error and the DF bit in the status register is set to 1 the SATL shall complete the TEST UNIT READY command with CHECK CONDITION status, with a sense key set to HARDWARE ERROR, and an additional sense code of LOGICAL UNIT FAILURE.

4) If any other condition exists that prevents the SATL from issuing commands to the underlying ATA device, the SATL shall complete the TEST UNIT READY command with CHECK CONDITION status, with a sense key set to NOT READY, with an additional sense code of LOGICAL UNIT NOT READY, CAUSE NOT REPORTABLE.

5) If none of the previous conditions exist, then the SATL shall complete the TEST UNIT READY command with GOOD status.