ATA-3 Proposal
Check Power Mode Enhancement
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The following changes are proposed to Clauses 7.3.2 and 8.4. Locations and format are based on the current ATA-2 document.

7.3.2 Power Management Commands

The Check Power Mode command allows a host to determine if a device is currently in, going to or leaving Standby or Idle mode.

8.4. CHECK POWER MODE

TYPE - Optional - Power Management Feature Set.

PROTOCOL - Non-data command.

INPUTS - None.

NORMAL OUTPUTS - The Sector Count register is set to 0 (00h) if the device is going to, in or leaving Standby Mode. The Sector Count register is set to 128 (80h) if the device is going to, in or leaving Idle Mode. The Sector Count register is set to 255 (FFh) if the device is in Active or Idle mode.

ERROR OUTPUTS - Aborted Command if the device does not support the Power Management command set.

PREREQUISITES - None.

DESCRIPTION - If the device is in, going to, or recovering from the Standby Mode, the device shall set BSY, set the Sector Count register to 0 (00h), clear BSY, and assert INTRQ.

If the device is in, going to, or recovering from the Idle Mode, the device shall set BSY, set the Sector Count register to 128 (80h), clear BSY, and assert INTRQ.

If the device is in Active or Idle Mode, the device shall set BSY, set the Sector Count register to 255 (FFh), clear BSY, and assert INTRQ.