

To: T10 Technical Committee
From: Rob Elliott, HP (elliott@hp.com)
Date: 9 November 2006
Subject: 06-479r1 SBC-3 Mandate CAPACITY DATA HAS CHANGED unit attention

Revision history

Revision 0 (1 November 2006) First revision
Revision 1 (9 November 2006) Incorporated comments from November 2006 CAP WG

Related documents

sbc3r07 - SCSI Block Commands - 3 (SBC-3) revision 7

Overview

During SBC-2 letter ballot comment resolution, a new additional sense code called CAPACITY DATA HAS CHANGED (2Ah/09h) was defined and device servers were advised (with a “should”) to establish a unit attention condition using that additional sense code on any changes to the READ CAPACITY data.

In SBC-3, this should be upgraded to a “shall.”

Suggested changes

4.7 Initialization

...

Any time the parameter data returned by the READ CAPACITY (10) command (see 5.11) or the READ CAPACITY (16) command (see 5.12) changes (e.g., when a FORMAT UNIT command or a MODE SELECT command completes changing the number of logical blocks, logical block length, protection information, or reference tag ownership values, or when a vendor-specific mechanism causes a change), the device server ~~should~~shall establish a unit attention condition for the initiator port associated with each I_T nexus except the I_T nexus on which the command causing the change was received with an additional sense code of CAPACITY DATA HAS CHANGED.

NOTE 4 - Logical units compliant with previous versions of this standard ~~did not~~were not required to establish a unit attention condition.

5.11.2 READ CAPACITY (10) parameter data

The READ CAPACITY (10) parameter data is defined in table 41. Any time the READ CAPACITY (10) parameter data changes, the device server ~~should~~establishes a unit attention condition as described in 4.7.

...

5.12.2 READ CAPACITY (16) parameter data

The READ CAPACITY (16) parameter data is defined in table 43. Any time the READ CAPACITY (16) parameter data changes, the device server ~~should~~establishes a unit attention condition as described in 4.7.