

## T10/25-031r0 Revision 0

Date: April 23, 2025

To: T10 Committee

From Brad Besmer, Broadcom

Subject: T10/25-031r0 SPC-7 SBC-6 Report Supported Block Lengths

### Overview

This proposal allows a device to report supported Logical Block Lengths in the Supported Block Lengths and Protection Types VPD page when the device does not support Protection Information.

### Revision History

R0 - Initial revision

Unless otherwise indicated additions are shown in underlined blue, deletions in ~~red strikethrough~~, and comments in green. Differences between this revision and the previous revision, if any, are highlighted with change bars.

## SPC-7 Changes

### 7.5.3 Control mode page

...

A supported block lengths and protection information (SBLP) bit set to one specifies that the device server shall ~~return~~ support the Supported Block Lengths and Protection Types VPD page (see SBC-5) and shall set the SPT field to 110b in the Extended INQUIRY Data VPD page (see 7.7.7). A SBLP bit set to zero specifies that the device server ~~shall not return~~ may support the Supported Block Lengths and Protection Types VPD page and shall not set the SPT field to 110b in the Extended INQUIRY Data VPD page. Changing the value of the SBLP bit results in the establishment of a unit attention condition as described in 6.7.1.

...

### 7.8.7 Extended INQUIRY Data VPD page

...

The supported protection type (SPT) field indicates the type of protection the logical unit supports based on the contents of the PERIPHERAL DEVICE TYPE field. If the PROTECT bit (see 6.7.2) is set to zero, the SPT field is reserved. If the device server supports the Supported Block Lengths and Protection Types VPD page (see SBC-5) and the SBLP bit is set to one in the Control mode page (see 7.5.13), then the SPT field shall be set to 110b (i.e., specified in the Supported Block Lengths and Protection Types VPD page).

## SBC-6 Changes

### 6.6.12 Supported Block Lengths and Protection Types VPD page

The Supported Block Lengths and Protection Types VPD page (see table 289) contains parameters indicating the specific protection types (see 4.21) supported for each supported logical block length. ~~If the SBLP bit is set to zero in the Control mode page (See SPC-6), then the device server shall not support this VPD page.~~