

Date: February 27, 2025

To: T10 Committee

From: Brad Besmer, Broadcom

Subject: T10/25-020 SNT: Update MLUS reported value

## Overview

This proposal changes the reported value for the MLUS field in the Mode Page Policy VPD page.

The primary reason for this change is that a Mode Select command for the Caching page will result in an NVMe command that changes the caching for all Namespaces on the NVMe drive (NVMe does not have the ability to change caching characteristics independently for each Namespace).

FYI, the projected mode pages to be translated in SNT are:

- Caching
- Control
- Informational Exceptions
- Power Condition
- Read-Write Error Recovery

## Revision History

R0

- Initial Revision

## SNT Changes

**EdNote: Integrate after 24-060**

### 10.5.1.1 Mode Page Policy VPD page (i.e., B7h)

Table 12 shows the translation of fields in the Mode Page Policy VPD page.

*Table 12 Mode Page Policy VPD page field translations*

Field	Description
PERIPHERAL QUALIFIER	Shall be set as described in Section 8.1.2.
PERIPHERAL DEVICE TYPE	
PAGE CODE	Shall be set to 87h.
PAGE LENGTH	Shall be set to 04h.
Mode page policy descriptor list	The SNTL shall support one Mode page policy descriptor (see 10.5.1.6.1).

### 10.5.1.6.1 Mode Page Policy Descriptor translation

Table 13 shows the translation for the fields of a Mode page policy descriptor.

*Table 13 Mode Page Policy Descriptor field translations*

Field	Description
POLICY PAGE CODE	Shall be set to 3Fh (i.e., all mode pages).
POLICY SUBPAGE CODE	Shall be set to FFh (i.e., all subpages).
MLUS	Shall be set to <del>0b (i.e., each logical unit has its own mode page)</del> <u>1b (i.e., shared across all logical units)</u> .
MODE PAGE POLICY	Shall be set to 01b (i.e., per target port).