

ENDL TEXAS

Date: 24 July 2007
 To: T10 Technical Committee
 From: Ralph O. Weber
 Subject: Correct an OSD-2 defined attributes bug

Introduction

07-273r3 introduced incorrect text in OSD-2 r02, specifically the last sentence in the change.

4.7 OSD object attributes

4.7.1 Overview

... {{4.7.1 is unchanged except for last paragraph and additions that follow it.}}

The structures of attributes pages are **defined** **described** by standards (e.g., this standard, other American National Standards, ISO standards), by OSD applications specifications (e.g., SAN file systems, data base systems, fixed data repositories), by publicly available manufacturer specifications, and by other documentation. A range of vendor specific attributes pages is **defined** **provided** for which the usage is not restricted by this standard.

Attributes for which the OSD logical unit is able to return a value (i.e., attributes with a non-zero length) are called **defined attributes**. Attributes with no returnable value (i.e., attributes with a zero length) are called **undefined attributes**. **All the attributes described by this standard are defined attributes.**

The following are but a few of the examples of attributes described by OSD-2 that may not be defined attributes:

- a) All the attributes in the Collections attributes page;
- b) The root key identifier and master key identifier attributes in the Root Policy/Security attributes page;
- c) The partition key identifier and working key identifier attributes in the Partition Policy/Security attributes page; and
- d) The username attribute in the User Object Information attributes page.

The intent of the offending sentence was to prevent attributes defined by the OSD-2 standard from being undefined by wayward implementations. However, 07-273r3 already defined a better way to eliminate this problem in the following new text.

If this standard specifies the length of an attribute, any command that attempts to set that attribute's length to a value other than what this standard specifies (e.g., a command that attempts to undefine the user object length attribute described in 7.1.2.11) shall be terminated with a CHECK CONDITION status, with the sense key set to ILLEGAL REQUEST, and the additional sense code set as follows:

- a) If the invalid attribute length is in a CDB field, the additional sense code shall be set to INVALID FIELD IN CDB; or
- b) If the invalid attribute length is in the Data-Out Buffer, the additional sense code shall be set to INVALID FIELD IN PARAMETER LIST.

Therefore, the correct resolution for the problem is to remove the problem sentence.

Revision History

r0 Initial revision

Unless otherwise indicated additions are shown in blue, deletions in ~~red strikethrough~~, and comments in green.

Proposed Changes in OSD-2 r02

4.7.1 Overview

... {{4.7.1 is unchanged except for last paragraph.}}

Attributes for which the OSD logical unit is able to return a value (i.e., attributes with a non-zero length) are called defined attributes. Attributes with no returnable value (i.e., attributes with a zero length) are called undefined attributes. ~~All the attributes described by this standard are defined attributes.~~