

memorandum



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T10/07-286r0

To INCITS T10 Committee From Michael Banther, HP Subject ADC-2 Reuse of LUN 0 identifier

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Revision History

07-xxxxr0 – Initial document.

Related documents

Automation/Drive Interface – Commands – 2 (ADC-2), T10/1741-D, revision 7e, 31 May 2007.

Background

Dell, HP, and IBM registered comments Dell-116, HPQ-244, and IBM-55 respectively during letter ballot for ADC-2. These comments point out technical and editorial inconsistencies between the text in the second body row of table 35 and SAM-x, various transport protocols, and accepted SCSI nomenclature. The ADC-2 editor has requested a proposal to resolve these letter ballot comments. This proposal fulfills that request.

In this proposal, deleted text appears in ~~red-strikeout~~, new text appears in blue, and comments that do not form a part of the proposal appear in pink.

Changes to the ADC-2 draft standard

Value	MODE SENSE command ^a	MODE SELECT command ^a
00b	The MTDN field shall be set to zero for a MODE SENSE command. The identification descriptors shall contain the currently assigned values.	Do not modify the DT device's SCSI target device names. The identification descriptors shall be ignored.
01b	Invalid	Use the logical unit identifier for logical-unit LUN 0 as the DT device SCSI target device name. The identification descriptors shall be ignored.
10b		Set the DT device's SCSI target device names to the manufacturer's default value. The identification descriptors shall be ignored.
11b		Set the DT device's SCSI target device names to the values in the identification descriptors.

^a See SPC-3.

The identification descriptors are the same as those in the Device Identification VPD page (see SPC-3). Only identification descriptors with the ASSOCIATION field set to 10b (i.e., target device) shall be used. On MODE SELECT commands, if any identification descriptor contains an ASSOCIATION field set to a value other than 10b, then the ADC device server shall return CHECK CONDITION status, setting the sense key to ILLEGAL REQUEST and the additional sense code to INVALID FIELD IN PARAMETER LIST.

A device server processing a MODE SELECT command with parameter data containing the Target Device subpage and the MTDN field set to 01b shall not modify the DT device's SCSI target device name and shall return CHECK CONDITION status with the sense key set to ILLEGAL REQUEST and the additional sense code set to INVALID FIELD IN PARAMETER LIST if:

- the DT device supports multiple primary ports;
- a transport protocol for a primary port in the DT device mandates uniqueness of the SCSI target device name and the name of a SCSI logical unit within the DT device; or
- a transport protocol for a primary port in the DT device mandates a name format for the SCSI target device name that differs from the name format of all of the logical unit identifiers of LUN 0.