



To: T10 Technical Committee
 From: Kevin Marks - Dell, Inc.
 Date: Sep. 11, 2007
 Subject: T10/07-381r0: ASC/ASCQ Request for TCG constructs

Revision History

Revision 0 (09/11/07) – Initial proposal

Related Documents

SPC-4 T10/1731-D Revision 11

[New text to be added to SPC-4](#)

~~Text to be deleted from SPC-4~~

<...Editorial text...>

Overview

TCG SWG draft spec contains constructs that allow for locking or restricting access to logical blocks in ranges within the logical unit, in that some LBAs may be readable/writeable and other not until some authentication occurs to unlock the range. TCG would like an ASC/ASCQ to return when a READ/WRITE command is received where one or more LBAs fall into one of these locked/restricted LBA access ranges.

SPC-4 has an ASC/ASCQ of LOGICAL UNIT NOT AUTHORIZED, but this implies a LU level restriction and is not what TCG is requesting for reporting this error condition.

This proposal provides 3 options, with the top level ASC as the preferred option.

Suggested Changes:

Add new row to the Additional Sense Code table in the current ANNEX C.2, Table C.1 of SPC-4.

Table D.1 — ASC and ASCQ assignments

Table D-17 ASC and ASCQ assignments																
		D - DIRECT ACCESS BLOCK DEVICE (SBC-2) T - SEQUENTIAL ACCESS DEVICE (SSC-2) L - PRINTER DEVICE (SSC) P - PROCESSOR DEVICE (SPC-2) W - WRITE ONCE BLOCK DEVICE (SBC) R - CD/DVD DEVICE (MMC-4) O - OPTICAL MEMORY BLOCK DEVICE (SBC) M - MEDIA CHANGER DEVICE (SMC-2) A - STORAGE ARRAY DEVICE (SCC-2) E - ENCLOSURE SERVICES DEVICE (SES) B - SIMPLIFIED DIRECT-ACCESS DEVICE (RBC) K - OPTICAL CARD READER/WRITER DEVICE (OCRW) V - AUTOMATION/DRIVE INTERFACE (ADC) F - OBJECT-BASED STORAGE (OSD)														
ASC	ASCQ	D	T	L	P	W	R	O	M	A	E	B	K	V	F	Description
...
																LBA RANGE LOCKED
																<..Or..>
xxh	xxh	D														REQUESTED LBA LOCKED
																<..Or..>
																LBA REQUEST NOT AUTHORIZED
...