

ACS-2 General Device Statistics Update

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Revision 0

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Document Status

Revision History		
Rev	Date	Description
0	Feb. 3, 2010	1) Initial Revision

1 Introduction

Some of the General device statistics are only updated for successful command completion. In pre-planning for a SAT translation of device statistics, I observe that SPC-4 reports a similar quantity, but for ALL commands and sectors, whether successful or not. It is desirable if ACS-2 had an easily translatable definition.

A T13 reflector discussion of this topic occurred during December 2009.

2 Scope

Since ACS-2 will be serving as the basis for a SAT-3 standard, it is critically important to resolve this during ACS-2 letter ballot comment resolution.

3 Overview

ref: SPC-4, rev 22 - **Table 323 . Statistics and Performance log parameter,**

The NUMBER OF READ COMMANDS field contains the number of read commands (see 7.2.14.1) received by the logical unit.

The NUMBER OF WRITE COMMANDS field contains the number of write commands (see 7.2.14.1) received by the logical unit.

The NUMBER OF LOGICAL BLOCKS RECEIVED field contains the number of logical blocks received by any SCSI target port for the logical unit as a result of write commands (see 7.2.14.1).

The NUMBER OF LOGICAL BLOCKS TRANSMITTED field contains the number of logical blocks transmitted by any SCSI target port for the logical unit as a result of read commands (see 7.2.14.1).

3.1 Changes to Annex A

[Editors note: Modify these sections of the General Statistics page of the Device Statistics log (ACS-2 section=A.5.4) as noted below]

0.0.0.1 Logical Sectors Written

0.0.0.1.1 Description [\[editors note: section A.5.4.5.1\]](#)

The Logical Sectors Written statistic is a value that records the number of logical sectors received from the host. This statistic is incremented by one for each logical sector that ~~is was successfully~~ received from the host ~~as a result of write commands~~.

0.0.0.2 Number of Write Commands

0.0.0.2.1 Description [\[editors note: section A.5.4.6.1\]](#)

The Number of Write Commands statistic is the number of write commands that ~~have been accepted~~ ~~completed~~ ~~successfully~~. This statistic is incremented by one for each write command that ~~successfully completes~~ ~~is~~ ~~accepted~~.

0.0.0.3 Logical Sectors Read

0.0.0.3.1 Description [\[editors note: section A.5.4.7.1\]](#)

The Logical Sectors Read statistic is a value that records the number of logical sectors sent to the host. This statistic is incremented by one for each logical sector that ~~is was successfully~~ sent to the host ~~as a result of read commands~~.

0.0.0.4 Number of Read Commands

0.0.0.4.1 Description [\[editors note: section A.5.4.8.1\]](#)

The Number of Read Commands statistic is the number of read commands that [have been accepted](#) ~~completed~~ ~~successfully~~. This statistic is incremented by one for each read command that ~~successfully completes~~ [is accepted](#).