

Device Statistics – Transport

T13 Technical Proposal – e07168r11

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A.5 Device Statistics (Log Address TBD)

A.5.1 Device Transport Statistics (Page TBD)

A.5.1.1 Overview

Device Statistics log page TBD contains interface transport information about the device as described in table TBD.

The summary of this transport statistics is as followed:

- a) Structure Version;
- b) Number of Hardware Resets;
- c) Number of ASR Events; and
- d) Number of Interface CRC Errors.

Table TBD –Transport Statistics

Offset	Type	Content								
0-7	QWord	Structure Version								
		<table> <thead> <tr> <th>Bit</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>63:56</td> <td>Device Statistics Flags, (See Table TBD)</td> </tr> <tr> <td>55:24</td> <td>Reserved</td> </tr> <tr> <td>23:16</td> <td>TBDh, Page Number</td> </tr> <tr> <td>15:0</td> <td>Device Statistics Version Number = 0001h</td> </tr> </tbody> </table>	Bit	Meaning	63:56	Device Statistics Flags, (See Table TBD)	55:24	Reserved	23:16	TBDh, Page Number
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55:24	Reserved									
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15:0	Device Statistics Version Number = 0001h									
8-15	QWord	Number of Hardware Resets								
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55:32	Reserved									
31:0	Number of Interface CRC Errors (DWord)									
32-511	Byte	Reserved								

A.5.1.2 Structure Version

A.5.1.2.1 Description

Structure Version defines the version of the data structure arrangement for this page.

Bit 23:16 is the page number of the Log Page. Bit 15:0 is the revision number of the statistics structure.

A.5.1.2.2 Update Interval

NA

A.5.1.2.3 Measurement Unit

NA

A.5.1.2.4 Initialization

Structure Version shall be set to 0001h.

A.5.1.3 Number of Hardware Resets

A.5.1.3.1 Description

The Number of Hardware Resets statistic is the number of hardware resets received by the device. This statistic is incremented by one for each hardware reset.

A.5.1.3.2 Update Interval

Ten minutes

A.5.1.3.3 Measurement Unit

Events

A.5.1.3.4 Initialization

This statistic shall be initialized to zero at the time of manufacture.

A.5.1.4 Number of ASR Events

A.5.1.4.1 Description

The Number of ASR Events statistic is a counter that records the number of ASR events (see SATA 2.6). This statistic is incremented by one for each ASR event detected.

A.5.1.4.2 Update Interval

Ten minutes

A.5.1.4.3 Measurement Unit

Events

A.5.1.4.4 Initialization

This statistic shall be initialized to zero at the time of manufacture.

A.5.1.5 Number of Interface CRC Errors

A.5.1.5.1 Description

The Number of Interface CRC Errors statistic is a counter that records the number of Interface CRC errors (See 6.3.10 xxx) reported in the Error field since the device was manufactured. This statistic is incremented by one for each Interface CRC error reported in the Error field.

A.5.1.5.2 Update Interval

Ten minutes

A.5.1.5.3 Measurement Unit

Events

A.5.1.5.4 Initialization

This statistic shall be initialized to zero at the time of manufacture.