

**Proposed
Draft**

**Serial ATA
International Organization**

Version 2
6/27/2016

Serial ATA Revision 3.3 Technical Proposal

TPR078

Title : Clarification on writeable logs

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Document History

Version	Date	Comments
0	6/10/2016	Initial release.
1	6/14/2016	Incorporation of comments from 6/13 Digital meeting
2	6/27/2016	Member review, changed D211 to TPR078

1 Introduction

The introduction of the Rebuild Assist log means that there are now writeable logs. This proposal clarifies that and adds an indication as to which logs are writeable to Table 113.

2 Technical Specification Changes

2.1 13.7.1 SATA logs overview

[editor note: Existing text is black. New text is marked as underlined in blue color. Material to be deleted ~~is red with strikethrough markings.~~]

There are several log “files” available in a SATA device. ~~They are all read-only.~~ The READ LOG EXT command in the General Purpose Logging feature set (see ACS-4) are used to read the SATA logs. In some cases the READ LOG DMA EXT command may also be used (see ACS-4). Each log has an “address” that it is referenced. Each log contains zero or more “pages” of data. Each “page” contains 512 bytes of data.

13.7.2 Log address definitions

The log addresses assigned for Serial ATA are defined in Table 113.

Table 113 – Log Addresses for Serial ATA

Log Address	Description	<u>R/W</u>	Reference
00h..0Fh	As defined in the ACS-4 Standard	-	-
10h	NCQ Queued Error log	<u>RO</u>	13.7.4
11h	Phy Event Counters log	<u>RO</u>	13.9.4
12h	NCQ NON-DATA log	<u>RO</u>	13.7.5
13h	NCQ Send and Receive log	<u>RO</u>	13.7.6
14h	Hybrid Information log	<u>RO</u>	13.7.7
15h	Rebuild Assist log	<u>R/W</u>	13.7.8
16h..17h	Reserved	-	-
18h..FFh	As defined in the ACS-4 Standard	-	-
<p><u>Key:</u> <u>RO = Log is read only</u> <u>R/W = Log is read or written</u></p>			