

**Proposed
Draft**

**Serial ATA
International Organization**

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**Serial ATA Revision 3.2 Technical Proposal 063
Title : Align Queued DATA SET MANAGEMENT
with ACS-4**

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Document History

Version	Date	Comments
0	16 May 2014	Initial release.
1	16 May 2014	Added unrelated change requested by Harvey Newman
2	22 August 2014	Incorporated changes requested by 19 May 2014 Digital conference call, and confirmed proper synchronization with newly approved ACS-4 changes to the DATA SET MANAGEMENT command
3	25 August 2014	Made "supported" small caps in 1.4 quoted title. This is the revision that the Digital group recommended to the SATA-IO board.
4	2 September 2014	Member review, D184v3 changed to TPR063

Introduction

T13 is on the verge of adding two new fields to the DATA SET MANAGEMENT command. This proposal mirrors them in the DATA SET MANAGEMENT subcommand of the SEND FPDMA QUEUED command.

1 Technical Specification Changes

1.1 **** Fix normative references to include in development **** **** ACS-4, T13/BSR INCITS 529 ****

1.2 13.6.8.1 SEND FPDMA QUEUED definition

*** LBA (7:0) S/B “Subcommand Specific”, like the other LBA bytes in the inputs table ***

1.3 13.6.8.6 DATA SET MANAGEMENT subcommand (00h)

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13.6.8.6.2 Inputs

Field	7	6	5	4	3	2	1	0
LBA(7:0)					Reserved	DSM Specific (7:0)		
LBA(15:8)					Reserved	DSM Specific (15:8)		
LBA(23:16)					Reserved	DSM Specific (23:16)		
LBA(31:24)					Reserved	DSM Specific (31:24)		
LBA(39:32)					Reserved	DSM Specific (39:32)		
LBA(47:40)					Reserved	DSM Specific (47:40)		
Auxiliary(7:0)				Reserved				Trim
Auxiliary(15:8)					Reserved	DSM Function		
Auxiliary(23:16)				Reserved				
Auxiliary(31:24)				Reserved				

Figure 376 – SEND FPDMA QUEUED, subcommand = 00h

Trim As defined by the DATA SET MANAGEMENT command in [ACS-3](#) [ACS-4](#).
DSM Function As defined by the DATA SET MANAGEMENT command in [ACS-4](#).
DSM Specific As defined by the DATA SET MANAGEMENT command in [ACS-4](#).

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1.4 13.7.9.2.4 NCQ FEATURE SET SUPPORTED bit

If the NCQ FEATURE SET SUPPORTED bit is set to one, then the device supports the NCQ feature set (~~see 13.6.6~~) ([see 13.6](#)).

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