

**Proposed
Draft**

**Serial ATA
International Organization**

**Version 2
July 6, 2015**

**Serial ATA Revision 3.2 ECN#087
Title : Missing bit in ID data log for Hybrid
Information Enable**

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Author Information

Author Name	Company	Email address
Dan Hubbard	Micron	djhubbard@micron.com

Workgroup Chair Information

Workgroup (Phy, Digital, etc...)	Chairperson Name	Email address
Digital	Jim Hatfield	James.C.Hatfield@seagate.com

Document History

Version	Date	Comments
0	June 26, 2015	Initial release.
1	June 30, 2015	Fixed minor editorial comments.
2	July 6, 2015	Member review, D202 changed to ECN087.

1 Introduction

1.1 Problem Statement

It was discovered that the IDENTIFY DEVICE data log has text describing a HYBRID INFORMATION ENABLED bit, but there is no bit assigned for it.

1.2 Solution Summary

Define a bit in the IDENTIFY DEVICE data log for
HYBRID INFORMATION ENABLED

Add text to the IDENTIFY DEVICE data log description for the HYBRID INFORMATION ENABLED bit to state which IDENTIFY DEVICE data bit it is a copy of.

2 Technical Specification Changes

[editor note: Existing text is black, and includes TPR056 and ECN081. New text is marked as underlined in blue color. Material to be deleted is ~~is red with strikethrough markings~~.]

13.7.9.1 Serial ATA settings (page 08h)

The Serial ATA log page (see Table 118) provides information about the Serial ATA Transport.

Table 118 – Serial ATA (page 08h) (part 2 of 3)

Offset	Type	Contents
16..23	Qword	Current SATA Settings
		Bit Meaning
		63 Shall be set to one.
		62:14 13 Reserved
		<u>13</u> <u>HYBRID INFORMATION ENABLED (see 13.7.9.3.10)</u>
		12 REBUILD ASSIST ENABLED (see 13.7.9.3.11) Editor's note: ECN081 assigned bit 12 to REBUILD ASSIST ENABLED
		11 POWER DISABLE FEATURE ENABLED (see 13.7.9.3.14) Editor's note: TPR056 assigned bit 11 to POWER DISABLE FEATURE ENABLED
		10 DEVICE SLEEP ENABLED (see 13.7.9.3.9)
		9 AUTOMATIC PARTIAL TO SLUMBER TRANSITIONS ENABLED (see 13.7.9.3.8)
		8 SOFTWARE SETTINGS PRESERVATION ENABLED (see 13.7.9.3.7)
		7 HARDWARE FEATURE CONTROL ENABLED (see 13.7.9.3.6)
		6 IN-ORDER DATA DELIVERY ENABLED (see 13.7.9.3.5)
		5 DEVICE INITIATED POWER MANAGEMENT ENABLED (see 13.7.9.3.4)
		4 DMA SETUP AUTO-ACTIVATION ENABLED (see 13.7.9.3.3)
		3 NON-ZERO BUFFER OFFSETS ENABLED (see 13.7.9.3.2)
		2:0 CURRENT NEGOTIATED SERIAL ATA SIGNAL SPEED (see 13.7.9.3.1)

13.7.9.3.10 HYBRID INFORMATION ENABLED bit

If the HYBRID INFORMATION ENABLED bit is set to one, then the Hybrid Information feature is enabled. If the device does not support the Hybrid Information feature (see 13.7.9.2.25), then the HYBRID INFORMATION ENABLED bit shall be cleared to zero.

[IDENTIFY DEVICE data Word 79 bit 9 is a copy of this bit.](#)