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Draft**

**Serial ATA
International Organization**

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Title: Clarification of Words 76 to 79

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Introduction

This ECN clarifies the language related to Words 76 to 79 in IDENTIFY DEVICE information and IDENTIFY PACKET DEVICE information.

1 Changes

[Editor's Note: The changes marked in **red** (and underlined/strikethrough) will be incorporated in sections 13.2.1.18, 13.2.1.19, and 13.2.2.15, 13.2.2.16]

13.2.1.16 Word 76: Serial ATA capabilities

If not 0000h or FFFFh, the device claims compliance with the Serial ATA specification and supports the signaling rate indicated in bits 1-3. Since Serial ATA supports generational compatibility, multiple bits may be set. Bit 0 is reserved and shall be cleared to zero (thus a Serial HIGH SPEED SERIALIZED AT ATTACHMENT Serial ATA International Organization Serial ATA Revision 2.6 437 ATA device has at least one bit cleared in this field and at least one bit set providing clear differentiation). If this field is not 0000h or FFFFh, words 77 through 79 shall be valid. If this field is 0000h or FFFFh the device does not claim compliance with the Serial ATA specification and Words 76 through 79 are not valid and shall be ignored.

13.2.1.17 Word 77: Reserved

Word 77 is reserved for future Serial ATA definition and shall be cleared to zero.

13.2.1.18 Word 78: Serial ATA features supported

Word 78 reports the optional features supported by the device. Support for this word is optional and if not supported the word shall be zero indicating the device has no support for new Serial ATA capabilities.

Deleted: If Word 76 is not 0000h or FFFFh,

13.2.1.19 Word 79: Serial ATA features enabled

Word 79 reports which optional features supported by the device are enabled. This word shall be supported if optional Word 78 is supported and shall not be supported if optional Word 78 is not supported.

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13.2.2.13 Word 76: Serial ATA capabilities

If not 0000h or FFFFh, the device claims compliance with the Serial ATA specification and supports the signaling rate indicated in bits 1-3. Since Serial ATA supports generational compatibility, multiple bits may be set. Bit 0 is reserved and shall be cleared to zero (thus a Serial ATA device has at least one bit cleared in this field and at least one bit set providing clear differentiation). If this field is not 0000h or FFFFh, words 77 through 79 shall be valid. If this field is 0000h or FFFFh the device does not claim compliance with the Serial ATA specification and Words 76 through 79 are not valid and shall be ignored.

13.2.2.14 Word 77: Reserved

Word 77 is reserved for future Serial ATA definition and shall be zero.

13.2.2.15 Word 78: Serial ATA features supported

Word 78 reports the optional features supported by the device. Support for this word is optional and if not supported the word shall be zero indicating the device has no support for new Serial ATA capabilities.

Deleted: If Word 76 is not 0000h or FFFFh,

13.2.2.16 Word 79: Serial ATA features enabled

Word 79 reports which optional features supported by the device are enabled. This word shall be supported if optional Word 78 is supported and shall not be supported if optional Word 78 is not supported.

Deleted: If Word 76 is not 0000h or FFFFh,