

Re: IOCTL_STORAGE_GET_MEDIA_TYPES_EX

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the same driver controls a 1.1 or 2.0 connected mass storage device. i think the randomness you see is due different bridges that expose the device as a usb device. the driver itself just follows the mass storage spec and returns the data that the drive reports

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"Norman Diamond" <ndiamond@xxxxxxxxxxxxxxxx> wrote in message [news:ey80n\\$GIIHA.2268@xxxxxxxxxxxxxxxx](mailto:news:ey80n$GIIHA.2268@xxxxxxxxxxxxxxxx)

Today's quiz.

Q1. If a hard drive is connected through a USB-to-IDE adapter using Microsoft's driver stack for USB2 and hard drives, then does IOCTL_STORAGE_GET_MEDIA_TYPES_EX succeed or does it fail with GetLastError() set to 1 (approximate translation: function is making a mistake)?

A1. Yes. In fact it is so reliable today that we could make a randomizing device by taping the hard drives to each other, flipping them like a coin, and connect whichever drive lands on top. If the Fujitsu drive connects then IOCTL_STORAGE_GET_MEDIA_TYPES_EX succeeds but if the Hitachi drive connects then IOCTL_STORAGE_GET_MEDIA_TYPES_EX fails.

Q2. If a hard drive is connected through a USB-to-IDE adapter using Microsoft's driver stack for USB2 and hard drives, then does IOCTL_STORAGE_GET_MEDIA_TYPES (no EX) succeed or does it fail with GetLastError() set to 50 (approximate translation: this request is not supported)?

A2. Not sure. The reason is that if IOCTL_STORAGE_GET_MEDIA_TYPES_EX succeeds then I neglect to call IOCTL_STORAGE_GET_MEDIA_TYPES (no EX). However, with the Hitachi drive, IOCTL_STORAGE_GET_MEDIA_TYPES (no EX) always fails.

Q3. If a hard drive is connected through a USB-to-IDE adapter using Microsoft's driver

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stack for USB1.1 and hard drives because Microsoft's driver for USB2 randomly decided that it didn't want to work this time, then do IOCTL_STORAGE_GET_MEDIA_TYPES_EX and IOCTL_STORAGE_GET_MEDIA_TYPES (no EX) succeed or fail?

A3. Oops this one has a reliable answer, at least today. In this situation they always fail, at least today.

Q4. Why?