

Re: USB Composite Device, Serial + Mass Storage, could not install

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<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2006-05/msg00493.1>

- *From:* yingbohu <yingbohu@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 18 May 2006 12:32:03 -0700
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Hi Yoann,

I really do that, I also use IAD for the composite device, Windows XP SP2 can begin to install the driver according to the inf file. but there is question mark on my virtual serial port and my mass storage device can work. sometimes my windows XP will crash directly (reboot) when it is installing the driver (usbser.sys). could you share my your inf file if you can do that?

Yingbo

"yoann@xxxxxxxx" wrote:

You cannot have a multi-function device using 2 interfaces for one function (as it is the case with CDC) without using IAD.
The problem is that IAD is only supported by WindowsXP SP2.

However, you can group the 2 CDC interfaces in 1 interface (the CDC ACM one) by modifying the interface descriptor to have all 3 endpoints in it.
The usbser.sys driver supports this (you must specify the correct interface in your inf file). However, it does not support 2 single-interface CDC in a multi-function device thus you can have 1 COM + Mass Storage but not 2 COM + Mass storage.

Yoann

"yingbohu" wrote:

There are totally three interfaces for my composite device, two for serial port and one for mass storage.
My composite device can work if it is a mouse and a mass storage, both has only interface, but for serial port, this function need two interface, one for CDC ACM, the other is CDC data. I am thinging that usbser.sys could not group the first two interface together. I also try to use IAD but could not resolve this problem, my Serial port device still has a question mark and the

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error code is 10.

"Maxim S. Shatskih" wrote:

Are you adding 2 interfaces for the same device? or are you
emulating 2
devices on the same chip with a hub above them?

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Maxim Shatskih, Windows DDK MVP
StorageCraft Corporation
maxim@xxxxxxxxxxxxxxxxxxxxx
<http://www.storagecraft.com>

"yingbohu" <yingbohu@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message

<news:51E41E21-405B-4FEF-ADA6-14E0150B8C20@xxxxxxxxxxxxxxxxxxxxx>

Vetzak,

I can really install a USB device as a virtual
serial port on Win2K and
WinXP by using usbser.sys. A INF file is
needed to do that. The problem is
that if I add more function such as Mass
Storage then windows could not
install the virtual serial port successfully.
Mass storage can still work so
I think the usbser.sys could not support
composite virtual serial port.

Thanks for your information

"Vetzak" wrote:

I quickly gave up trying to
use usbser.sys, because I
couldn't install
it as a COM-port (Ports
device class). I believe you
can only deploy
usbser.sys for modem
(Modem device class). So
instead I wrote my own
USB-serial driver for
Win2K and later. I runs
great for different
device classes (Modem,
Ports, Smart card). It's not
hard to write such

Re: USB Composite Device, Serial + Mass Storage, could not install
a driver yourself.