

Re: USB Serial modem class driver on Windows CE 5.0

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2008-07/msg00473.html>

- *From:* Milind <milind.vk@xxxxxxxxxx>
 - *Date:* Thu, 24 Jul 2008 02:41:07 -0700 (PDT)
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On Jul 23, 12:42 am, Valter Minute

<v_a_l_t_e_r_m_i_n_u_t_e@xxxxxxxxxxxxxx> wrote:

Milind <milind...@xxxxxxxxxx> wrote in <news:9c3d6ceb-b40a-4c56-a225-07ce7621c...@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>:

Hi All,

I want to expose my Windows CE device as USB serial modem to Windows XP host PC. Is that possible on with Windows CE 5.0 running on my device? If so can you please tell me how do I implement this functionality? I have working USB function driver (I have tested all the 3 profiles Serial (Activesync), RNDIS and Mass storage). Now I want to support USB serial modem class. Please help!

You should implement a class driver that will interact with your USB function driver. You may use the Serial driver as a sample and implements your own interface and endpoints. You should also configure it inside the registry (you can also find a sample of this configuration in the serial driver) to load it when the function device driver is loaded.

Loading your function class driver will disable the others.

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(the reply address of this message is invalid)

Hi,

Thanks for the quick reply. As a first step I tried compiling the USB serial class driver locally and I could do it. Now activesync connects

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with "Myserialusbfm.dll", instead of default "serialusbfm.dll". Next I want, my windows CE device to appear as COM port on my XP machine (instead of appearing as sync device). What modification is required in Myserialusbfm.dll do achieve this?

Following link talks about USB serial modem class:

http://groups.google.co.in/group/microsoft.public.windowsce.platbuilder/browse_thread/thread/65d0983f7cd240c1/9d

According to this in Windows Mobile 5.0 MSFT has extended functionality of serial usb class driver to support modem functionality. So I compiled serialusbfm from Windows Mobile 5.0 and tried with following registry settings, but my device doesn't appear as COM port to my PC. Can you please help?

```
[HKEY_LOCAL_MACHINE\Drivers\USB\FunctionDrivers]
"DefaultClientDriver"=- ; erase previous default
[HKEY_LOCAL_MACHINE\Drivers\USB\FunctionDrivers]
"DefaultClientDriver"="USBSER_Class"

[HKEY_LOCAL_MACHINE\Drivers\USB\FunctionDrivers\USBSER_Class]
"Dll"="Myserialusbfm.dll"
"DeviceName"="USBFNS2:"
"Prefix"="COM"
"Index"=dword:8
"RxBufferSize"=dword:4000
"DeviceArrayIndex"=dword:1
"IClass"=multi_sz:"{CC5195AC-BA49-48a0-BE17-DF6D1B0173DD}","{C375C787-B721--4b8e-B67F-A112D5C0A404}"
; idVendor must be changed. 045E belongs to Microsoft and is only to
be used
for
; prototype devices in your labs. Visit http://www.usb.org to obtain
a
vendor id.
"idVendor"=dword:045E
"Manufacturer"="Generic Manufacturer (PROTOTYPE--Remember to
change
idVendor)"
"idProduct"=dword:0079
"Product"="Generic Serial (PROTOTYPE--Remember to change
idVendor)"
"bcdDevice"=dword:90
"Tsp"="Unimodem.dll"
"DeviceType"=dword:0
```

I guess based on the DeviceArrayIndex key, the class driver should expose the device as serial modem. But it is not happening. Is there any registry settings I am missing? Then I tried debugging the class driver and I found that the class driver fails to initialize "serialpdd". The exact function where it fails is

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(UfnInitializeInterface -->CreateBusAccessHandle). Am I missing any thing?

Thanks
-Milind

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