

# Re: Calling inf file or installing .sys file from DriverEntry func

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*Source:*

<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2008-12/msg00312.L>

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- *From:* umesh <[umesh@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:umesh@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Thu, 18 Dec 2008 06:41:01 -0800
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In addition,

Actually the USB device has a cryptographic functionality and i need to create a Smart Card Reader so that USB device can work as a smart card. The smart card reader device does not have the any H/W id.

So, The task is to install the Smart card reader driver as well as USB driver when the USB device is inserted to a USB port.

Via installer, we are able to install both the drivers. The plan is to install the driver from Windows update site, if the driver is not available on host machine.

I already provided sample .inf file in my previous reply.

Regards,  
Wanni

"umesh" wrote:

Thanks for your reply.  
Ok let me explain the original problem.

My driver works on two sys file, pmt.sys and pixtel.sys

here is section of my inf file

```
;  
; Models  
;  
[Pixtel]  
%PID_NUM% =PMT_Install, pmt\pmtEnum ---> it installs pmt.sys file  
  
%PID_1206% =Pixtel_Install,USB\VID_PID_1266 ----> it installs pixtel.sys  
file
```

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```
[PMT_Install.NTx86]
CopyFiles=pmt_Files,pixel_Files

....
[PMT_Install.NTx86.Services]
AddService=pmtToken,0x00000002,pmt_AddService
....
```

```
[Pixel_Install.NTx86]
CopyFiles=pmt_Files,pixel_Files

...
[Pixel_Install.NTx86.Services]
AddService=pixelToken,0x00000002,pixel_AddService
....
```

Now pmt\pmtEnum is my own define hardware id.  
and USB\VID\_PID\_1266 is vendor id which i treat as hardware id.

Now first i install my pmt.sys file through my own defined executable program (say xxx.exe) which call setupapi functions (for eg. UpdateDriverForPlugAndPlayDevices). I pass pmt\pmtEnum as hardware id to UpdateDriverForPlugAndPlayDevices(), which i think internally calls INF passing same hardware id and then in the inf file it matches the section corresponding to hardware id and then installs the .sys file corresponding to it.

Also i use SetupCopyOEM() to copy inf file to Windows\INF folder.

Now when i insert smartcard into USB, it searches the INF file and install pixel.sys through Driver Installation framework (internally it passes USB\VID\_PID\_1266 as hardware id)

This works fine for me, but now i want that my both .sys files (pmt.sys and pixel.sys) is installed through INF file only i.e. i dont want to use any executable program.

Through Add New Hardware program, driver installation framework is only able

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to pass USB\VID\_PID\_1266 (which is smart card h/w id)hardware id to inf file, so internally it installs only pixtel.sys file. but it does not install pmt.sys file as driver installation framework is unable to pass my own defined hardware id i.e pmt\pmtEnum to INF file.

Is there any way through which i can pass my own defined hardware id i.e. pmt\pmtEnum to INF file (through Driver installation framework) and then second hardware id i.e. USB\VID\_PID\_1266.  
In short i want to install my both sys files through INF file. Please suggest me ways.

I appreciate if i can get any response.

Regards  
wanni

"Don Burn" wrote:

This is a copy of the response I put on microsoft.public.win32.programmer.kernel, please consider either posting to both groups together, or to only one group. Having independant posts to two groups causes terrible mixing of ideas.

First please explain why you feel you need such an architecture? There are ways to load other drivers, or trigger the PnP subsystem to do so but without some understanding of what your needs are, I will not go into them. They either break PnP or are very heavyweight.

—  
Don Burn (MVP, Windows DDK)  
Windows Filesystem and Driver Consulting  
Website: <http://www.windrvr.com>  
Blog: <http://msmvps.com/blogs/WinDrv>  
Remove StopSpam to reply

"umesh" <umesh@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:E3A4DE6D-26CE-4309-861A-DB103FA6059A@xxxxxxxxxxxxxxxxxxxx](mailto:news:E3A4DE6D-26CE-4309-861A-DB103FA6059A@xxxxxxxxxxxxxxxxxxxx)

Hi ALL,  
I am installing a new driver through INF file. I inserted my card into USB

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and it ask me for path for INF file. I browse the the inf file  
and it  
calls

DriverEntry function of my sys file ( correct me if am  
wrong)

Now from this DriverEntry function i want to install  
another sys file or want to call INF file passing my own  
hardware ID to

INF

file. Can you tell me if this is possible?. Is there any way  
through which

i

can

load/install .sys files from another sys file (lets say from  
DriverEntry

Function of another sys file).

I appreciate for any kind of inputs.

Regards

Wanni.