

## Re: USB not detected – help

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*Source:*

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2007-02/msg00131.html>

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- *From:* mini <[mini@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:mini@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Mon, 5 Feb 2007 07:59:01 -0800
- 

Hi,

If I connect the device during bootup, it boots normally. But unidentified USB device popup came.

If I connect the device after the OS is loaded, "Unidentified USB device" pop-up has come. (Note: Without installing the Cab file, if I connect it)

I copied the dll after installing the CAB file from the CE device.

This is the line I added in platform.bib:

```
"SWIVSP.dll $( _FLATRELEASEDIR )\SWIVSP.dll NK SH"
```

The Registry That I included in platform.reg is:

```
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\4505_24\Default\Default\SierraWireless_USB_Modem\Unin  
"1"="AT<cr>"  
"2"="ATE0V1&C0&D2<cr>"
```

```
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\4505_24\Default\Default\SierraWireless_USB_Modem\Unin  
"Prefix"="AT"  
"Terminator"="<cr>"  
"DialPrefix"="D"  
"DialSuffix"=";"  
"Pulse"="T"  
"Tone"="T"  
"Reset"="ATZ<cr>"  
"Blind_On"=""  
"Blind_Off"=""  
"CallSetupFail"="AT<cr>"
```

```
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\4505_32\Default\Default\SierraWireless_USB_Modem\Unin  
"1"="AT<cr>"  
"2"="ATE0V1&C0&D2<cr>"
```

```
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\4505_32\Default\Default\SierraWireless_USB_Modem\Unin  
"Prefix"="AT"  
"Terminator"="<cr>"  
"DialPrefix"="D"
```

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"DialSuffix"=";"  
"Pulse"="T"  
"Tone"="T"  
"Reset"="ATZ<cr>"  
"Blind\_On"=""  
"Blind\_Off"=""  
"CallSetupFail"="AT<cr>"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26626\Default\Default\SierraWireless\_USB\_Modem\U  
"1"="AT<cr>"  
"2"="ATE0V1&C0&D2<cr>"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26626\Default\Default\SierraWireless\_USB\_Modem\U  
"Prefix"="AT"  
"Terminator"="<cr>"  
"DialPrefix"="D"  
"DialSuffix"=";"  
"Pulse"="T"  
"Tone"="T"  
"Reset"="ATZ<cr>"  
"Blind\_On"=""  
"Blind\_Off"=""  
"CallSetupFail"="AT<cr>"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26642\Default\Default\SierraWireless\_USB\_Modem\U  
"1"="AT<cr>"  
"2"="ATE0V1&C0&D2<cr>"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26642\Default\Default\SierraWireless\_USB\_Modem\U  
"Prefix"="AT"  
"Terminator"="<cr>"  
"DialPrefix"="D"  
"DialSuffix"=";"  
"Pulse"="T"  
"Tone"="T"  
"Reset"="ATZ<cr>"  
"Blind\_On"=""  
"Blind\_Off"=""  
"CallSetupFail"="AT<cr>"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_24\Default\Default\SierraWireless\_USB\_Modem\Unin  
"Tsp"="Unimodem.dll"  
"FriendlyName"="SW MC5720 Modem"  
"DeviceType"="3"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_32\Default\Default\SierraWireless\_USB\_Modem\Unin  
"Tsp"="Unimodem.dll"  
"FriendlyName"="SW MC5725 Modem"  
"DeviceType"="3"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26626\Default\Default\SierraWireless\_USB\_Modem\U

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"Tsp"="Unimodem.dll"  
"FriendlyName"="SW MC Modem"  
"DeviceType"="3"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26642\Default\Default\SierraWireless\_USB\_Modem]  
"Tsp"="Unimodem.dll"  
"FriendlyName"="SW MC Modem"  
"DeviceType"="3"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_24\Default\Default\SierraWireless\_USB\_Modem]  
"Dll"="SWIVSP.dll"  
"FriendlyName"="SWIVsp MC SWI8: Port"  
"Order"="2"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_32\Default\Default\SierraWireless\_USB\_Modem]  
"Dll"="SWIVSP.dll"  
"FriendlyName"="SWIVsp MC SWI8: Port"  
"Order"="2"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26626\Default\Default\SierraWireless\_USB\_Modem]  
"Dll"="SWIVSP.dll"  
"Prefix"="SWI"  
"FriendlyName"="MiniCard 3G Modem"

[HKEY\_LOCAL\_MACHINE\Drivers\USB\LoadClients\4505\_26642\Default\Default\SierraWireless\_USB\_Modem]  
"Dll"="SWIVSP.dll"  
"Prefix"="SWI"  
"FriendlyName"="MiniCard 3G Modem"

[HKEY\_LOCAL\_MACHINE\Software\Sierra Wireless\GSM0710\_2\Unimodem\Init]  
"1"="AT<cr>"  
"2"="ATE0V1&C0&D2<cr>"

[HKEY\_LOCAL\_MACHINE\Software\Sierra Wireless\GSM0710\_2\Unimodem\Settings]  
"Prefix"="AT"  
"Terminator"="<cr>"  
"DialPrefix"="D"  
"DialSuffix"=";"  
"Pulse"="T"  
"Tone"="T"  
"Reset"="ATZ<cr>"  
"Blind\_On"=""  
"Blind\_Off"=""  
"CallSetupFail"="AT<cr>"

[HKEY\_LOCAL\_MACHINE\Software\Sierra Wireless\GSM0710\_2\Unimodem]  
"Tsp"="Unimodem.dll"  
"FriendlyName"="SW MuxModem"  
"DeviceType"="3"

[HKEY\_LOCAL\_MACHINE\System\CurrentControlSet\GPS Intermediate Driver\Drivers]

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```
"CurrentDriver"="SWIGPSModem"  
"InterfaceType"="COMM"  
"FriendlyName"="Sierra Wireless GPS Modem"  
"CommPort"="SWI6:"  
"DriverInterface"="GPD1:"
```

```
[HKEY_LOCAL_MACHINE\Software\Microsoft\Shell\IgnoredExtModems]  
"SW Mux"="3"
```

```
[HKEY_CURRENT_USER\Software\Sierra Wireless\RIL\CDMACtrl]  
"Index"="7"  
"Prefix"="SWI"
```

```
[HKEY_CURRENT_USER\Software\Sierra Wireless\RIL\CDMAData]  
"Index"="9"  
"BaudRate"="38400"  
"Prefix"="SWI"
```

```
[HKEY_CURRENT_USER\Software\Sierra Wireless\USB]  
"Index"="8"  
"IdleTimeout"="0"  
"Prefix"="SWI"  
"Dll"="SWIvsp.dll"  
"SuspendResumeFlags"="2"  
"MUXSupported"="0"  
"DataOverUSBPort"="1"  
"Order"="2"
```

```
[HKEY_LOCAL_MACHINE\Software\Microsoft\RIL]  
"RebootOKEvName"="Mux0710_RebootOK"  
"RebootKOEvName"="Mux0710_RebootKO"
```

```
[HKEY_LOCAL_MACHINE\Software\Sierra Wireless\GSM0710_1]  
"Prefix"="SWI"  
"Dll"="SWIvsp.dll"  
"DeviceArrayIndex"="1"  
"Index"="7"  
"Order"="2"  
"IClass"="{A32942B7-920C-486b-B0E6-92A702A99B35}"  
"GSM_0710_DLICI"="3"  
"GSM_0710_TYPE"="1"  
"GSM_0710_ACTIVITY_TIMEOUT"="10000"
```

```
[HKEY_LOCAL_MACHINE\Software\Sierra Wireless\GSM0710_2]  
"Prefix"="SWI"  
"Dll"="SWIvsp.dll"  
"DeviceArrayIndex"="1"  
"Index"="9"  
"Order"="3"  
"GSM_0710_DLICI"="1"  
"GSM_0710_TYPE"="0"
```

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"GSM\_0710\_ACTIVITY\_TIMEOUT"="20000"

[HKEY\_LOCAL\_MACHINE\Software\Sierra Wireless\GSM0710\_3]

"Prefix"="SWI"

"Dll"="SWIvsp.dll"

"DeviceArrayIndex"="1"

"Index"="5"

"Order"="2"

"GSM\_0710\_DLCI"="2"

"GSM\_0710\_TYPE"="1"

"GSM\_0710\_ACTIVITY\_TIMEOUT"="10000"

[HKEY\_LOCAL\_MACHINE\Software\Sierra Wireless\GSM0710\_4]

"Prefix"="SWI"

"Dll"="SWIvsp.dll"

"DeviceArrayIndex"="1"

"Index"="6"

"Order"="2"

"GSM\_0710\_DLCI"="4"

"GSM\_0710\_TYPE"="1"

"GSM\_0710\_ACTIVITY\_TIMEOUT"="10000"

[HKEY\_LOCAL\_MACHINE\Software\Microsoft\GSM07\_10]

"ComPort"="SWI8:"

"BaudRate"="38400"

[HKEY\_CURRENT\_USER\Software\Sierra Wireless\SS\_Log]

"Default Log File"="\\Windows\\SS\_Log.log"

"Filter – Status LogLevel"="14"

"Filter – Status CompLevel"="4294967295"

"Size – Log File Size"="524288"

"Display Mem"="1"

[HKEY\_CURRENT\_USER\ControlPanel\Dial\Locations]

"1"="Work"

"2"="Home"

"3"="Mobile"

[HKEY\_LOCAL\_MACHINE\Comm\Cxport]

"NoIdleTimerReset"="1"

[HKEY\_CURRENT\_USER\ControlPanel\Dial]

"HighLocID"="2"

"CurrentLoc"="1"

[HKEY\_LOCAL\_MACHINE\DebugZones]

"SWIVsp"="15"

Regards,

mini

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"Luc Cool" wrote:

Hi,

Scenario 1:

If the OS can't load a driver for a connected USB device, the only data that will pass over the USB bus is the device identification data. After that, the communication with the device will stop. The data transfer of the device identification will be a very short burst, so there is a big chance you miss it. You might try measuring it with a memory scope set to a one shot trigger mode. A better indication of the proper identification of the USB device should be the debug info when the OS gets loaded. If you enable the correct debug zones in your usb host driver, you should see some information about the USB device detection during startup, indicating that your GSM is properly identified.

Scenario 2:

When the driver is loaded, there is communication to and from the device. That are the spikes you are seeing.

Scenario 3:

Could you be a bit more specific?

Did you copy the driver dll back from the device or did you get it from the CAB file?

Could you post the lines you added to the bib file and the lines you added to the registry file.

If you don't connect the device during bootup, does the device boot normally in that case?

What happens if you connect the device after the OS is loaded?

Try saving the whole registry "with" and "without" the GSM driver installed. Check for other registry keys besides the one I mentioned.

Try to open the CAB file on your PC. There are special tools on the market for that. Even a tool like Winzip or Winrar can be used. They give you a rough idea of the files in the CAB and their size. One of the files is plain ascii and contains the registry keys that are added to the device registry.

Try to only add the driver file to your OS image. verify on the target platform if it really is there. Connect your GSM and fill in the driver name when you get the "Unidentified device popup". See what happens in that case.

regards,

Luc

"mini" <mini@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
[news:B53880A2-865E-4F2C-AD0E-8C3BDCCC2E84@xxxxxxxxxxxxxxxxxxxx](mailto:news:B53880A2-865E-4F2C-AD0E-8C3BDCCC2E84@xxxxxxxxxxxxxxxxxxxx)

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Hi Luc,

Scenario 1: The GSM module is connected on booting.

I checked with D+ & D- pins of the USB HUB chip: TUSB2046BIVFR.

When I

connect the mouse, in D+ and D- pins of the corresponding ports, some

signals

like spikes are coming. But the port in which GSM module is connected, the

D+

pin always stay HIGH, no spikes came.

Scenario 2: GSM module connected after bootup.

D+ and D- pins of the port in which GSM module is connected, spikes are coming. Without installing the driver, when I plug-out and plug-in again,

the

D+ pin goes to high .

What is the reason for this behaviour? Please explain me as I am not much aware of hardware.

Scenario 3:

I included the Registry settings in platform.reg and dll path in platform.bib and I

copied the driver dll to the MainstoneII/Files folder. But I download that image I got

```
"Data Abort: Thread=83ce6848 Proc=801263f0 'gwes.exe'  
AKY=00000009 PC=01ba7838(pxa27x_lcd.dll+0x00007838)  
RA=01ba7878(pxa27x_lcd.dll+0x00007878) BVA=08000010  
FSR=00000007
```

```
Data Abort: Thread=83ce6848 Proc=801263f0 'gwes.exe'  
AKY=00000009 PC=0004c33c(gwes.exe+0x0003c33c)  
RA=00054138(gwes.exe+0x00044138) BVA=08000008 FSR=00000007"
```

I don't know whether am I missing anything?

Pls reply me soon.....

mini

"Luc Cool" wrote:

Hi,

You should look at the things that change when you install the cab file.

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As

I told before, most CAB installs do 2 things:

1. Copy the dll driver file(s) to the platform windows map.  
Some might

copy

control panel applet's to that destination as well. (If so, you  
will

have

additional icon's in your control panel)

2. Add some registry keys so that the USB host knows which  
driver it

should

install when the device is connected.

So, if you want the device to be recognised by the OS, you  
will have to  
include those step's yourself.

If you connect your platform to a PC (I like active sync to do  
this) you

can

use the remote registry editor to check your device registry.  
You can

copy

the keys you need and insert them in the platform.reg of your  
platform.

check the HKLM\USB\LoadClients\xxx

There you should find under \default\default\xxxx the " DLL  
REG\_SZ  
xxxx.dll" registry key. This is the name of the driver. The  
first xxx

after

the loadclients refer to the VID and PID of the device. This  
should be

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the

unique numbers each USB device uses to identify itself to the host.

You can copy the dll back to your development pc. You can include it in

your

OS by adding it to the platform.bib file section.

Your new created image (with the registry setting and the driver dll included) should recognise the device without user intervention or

driver

installation.

Hope this helps.

regards,

Luc

<sumathik7@xxxxxxxx> wrote in message  
[news:1170410937.154128.41120@xx](mailto:news:1170410937.154128.41120@xx)

Yes. You are absolutely right. I followed the sequence:

- 1) Download the image.
- 2) Copy the CAB file using Activesync.
- 3) Insert the USB cable into the HUB
- 4) Double tap it.

If I insert the device after installing the cab file, it identifies the device.

But in real time scenario, I'll connect the gsm module inbuilt. So while downloading image I want the device to be identified.  
How can I do that?

Give me some apt solution. I have done so many work arounds, all but in vain.  
Thanks in advance...

Re: USB not detected – help

On Feb 2, 1:48 pm, "Luc Cool"  
<luc\_\_c...@xxxxxxxxxxxx> wrote:

Hi,

Did you install the driver on  
your platform?

What do you mean with  
"The device isnotdetectedif  
it is inserted

while

booting?"  
How do you know that it  
isnotdetected?

Is your problem that you can  
only use the device if you  
plug it in

after

powerup, or can't you use it  
at all?

You say you will install the  
driver once the device is  
identified.

You

should do things the other  
way around. You have to  
install the

driver so

that the OS can identify  
theUSBdevice. Without  
driver, it will show

you

the unidentifiedUSBdevice  
and allow you to manually

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tell it which

driver

to use. If the driver is ok for  
theUSBdevice, the OS will  
create the  
necessary registry keys, so  
that theusbdevice driver will  
load  
automatically, the next time  
the device isdetected.

regards,

Luc

"mini"

<m...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

[news:D534DB02-722C-4535-8960-200B6BD4095F@xxxxxxxxxxxxxxxxxxxx](mailto:news:D534DB02-722C-4535-8960-200B6BD4095F@xxxxxxxxxxxxxxxxxxxx)

Thanks  
forthe reply.

If I  
insertUSBCable  
from GSM  
module  
after  
bootup, it  
gives the

pop-up

from

that I  
understand  
that it  
identifies  
the device.  
The driver  
for

GSM

module

is

available in  
the form of  
.CAB file  
and once if  
it identifies,  
I'll

install

it.

What I want  
is on  
power-up,  
if my  
module is  
inserted, it  
should

identify

the

device.

How can I  
do for that?  
Could you  
clarify do I  
include any  
uhci/ehci  
from  
catalogue  
items?

Already I  
included  
OHCI in  
my image.

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Thanks very  
much in  
advance.

"vinoth"  
wrote:

Windows  
CE  
5.0  
doesn't  
have  
the  
GSM  
Module  
support.  
and  
Windows

CE

6.0

having

the  
GSM  
Module  
Support  
(Cellcore)

:  
i  
don't  
think  
it  
will

support

for

GSM

overUSBand  
it

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will  
support  
GSM  
over  
serial  
port.  
--  
vinoth.R  
software  
Engineer

"mini"  
wrote:

I  
inserted  
the  
(GSM  
modem)USBdevice  
to  
one  
of  
the  
ports  
of

myUSBHUB

which

is  
connected  
to  
host  
port  
1  
of  
pxa270  
processor.  
I  
also  
insertedUSBmouse,  
pen  
drive  
to  
this  
hub.

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These  
devices

are

detected.  
But  
the  
GSM  
device  
is not detected if  
the USB cable  
is

plugged-in

while  
booting.

After  
bootup,  
once  
the  
image  
has  
come up,  
if  
I  
plug-in  
the

GSMUSB

device,

then  
the  
"Unidentified USB device"  
pop-up  
has  
come.

Actually  
where  
is  
the  
problem?

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I  
couldnot  
get  
it?  
Immediate  
help  
needed.....–  
Hide  
quoted  
text  
–

– Show quoted text –