

Re: USB not detected – help

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2007-02/msg00114.html>

- *From:* "Luc Cool" <luc_cool@xxxxxxxxxxx>
 - *Date:* Mon, 05 Feb 2007 09:58:15 GMT
-

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 change 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 debugzones 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

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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

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.....

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mini

"Luc Cool" wrote:

Hi,

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

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 wan't 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

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...

On Feb 2, 1:48 pm, "Luc Cool" <luc__c...@xxxxxxxx>
wrote:

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Hi,

Did you install the driver on your platform?

What do you mean with "The device is not detected if it is inserted

while

booting?"

How do you know that it is not detected?

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 the USB device. Without driver, it will show

you

the unidentified USB device and allow you to manually tell it which

driver

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

regards,

Luc

"mini"

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<m...@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message

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.

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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.

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 will
support

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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.
These
devices

are

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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?
I
could not
get
it?
Immediate

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help
needed.....–
Hide
quoted
text
–

– Show quoted text –