

Re: Add Drivers to OS desing

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.flatbuilder/2008-10/msg00478.html>

- *From:* San <San@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 21 Oct 2008 14:13:01 -0700
-

the only thing I haven't done is to modify the view setting to show all files on my CE device (I'll do it tomorrow because now it's 11pm.

I've done all the other things and everything is OK...that's why I'm asking...I know I should follow a windows CE training (and I'll do it) but I have no time to follow it before finishing this part of the work...

I'll verify the question of drivers with vendor...and the possible problem with my USB host with me hardware co-workers...

Thank you anyway

"Michel Verhagen (eMVP)" wrote:

Please answer my questions:

On the CE device, open a windows explorer. Modify the view settings to show all files (hidden, system, etc). Now browse to the \windows folder: Do you see usbharv.dll and cpl.dll?

On your development machine, browse to the _FLATRELEASEFOLDER (in your OSDesigns folder under RelDir), open ce.bib. Can you find usbharv.dll and cpl.dll in ce.bib?

If not, the files did not make it into your kernel. This means you did not perform the right build steps. Re-read my blog, look at Bruce's blog or just do a clean sysgen.

In the bib file there is no need for a full path. All files in your BSP\FILES folder will be copied to the _FLATRELEASEDIR so you can just write:

```
MODULES
usbharv.dll $_FLATRELEASEDIR)\usbharv.dll NK
cpl.dll $_FLATRELEASEDIR)\cpl.dll NK
```

Re: Add Drivers to OS desing

Again:

if you are sure the driver is in your kernel (so you can see the files in the windows folder) then if you enter the name and the device still doesn't work it simply indicates it is either the wrong driver for the device, or you have a problem with your USB host driver.

Build a debug kernel, enable debug zones for usbd.dll and analyze the messages when you insert the device.

It may be a good idea for you to follow a CE training...

Good luck,

Michel Verhagen, eMVP
Check out my blog: <http://GuruCE.com/blog>

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Microsoft Embedded Partner
<http://GuruCE.com>
Consultancy, training and development services.

San wrote:

So, I'd like to write to you the steps I take...maybe you can see my error...

– I introduce drivers path as modules on project.bib file as I shew you in the last post.

MODULES

```

; Name Path Memory Type
; -----
-----
usbharv.dll
C:\WINCE600\PLATFORM\SMDK2440\Files\usbharv.dll
NK

cpl.dll
C:\WINCE600\PLATFORM\SMDK2440\Files\cpl.dll
NK

```

- I execute the procedure you told me as written on post "What build and when" (Sysgen, Copy files, makeimag)
- I execute dwn for nk.bin image downloading (first of all I format boot media for BinFS because the new image could be bigger)

Re: Add Drivers to OS desing

- I charge the image and windows CE runs on my smdk2440 platform
- First of all I've tried to look for drivers on : windows ce device's registry under HKEY_LOCAL_MACHINE\drivers but I don't find it
- At this point I try to connect my usb device and windows CE doen's recognize it (as vendors documentation tells that should happened) but it asks me for the device driver name. I introduce "usbharv.dll" but it tells me there is an error
- If I try to connect the usb device and to write the name while I've attached the platform to PB for debug the Windows CE debug out only shows:

PB Debugger Unloaded symbols for

'C:\WINCE600\OSDESIGNS\MYOS\VS2005\WINCE600\OSDESIGNS\SMDK2440-UNIP1\RELDI

PB Debugger Unloaded symbols for

'C:\WINCE600\OSDESIGNS\MYOS\VS2005\WINCE600\OSDESIGNS\SMDK2440-UNIP1\RELDI

PB Debugger Loaded symbols for

'C:\WINCE600\OSDESIGNS\MYOS\VS2005\WINCE600\OSDESIGNS\SMDK2440-UNIP1\RELDI

PB Debugger Loaded symbols for

'C:\WINCE600\OSDESIGNS\MYOS\VS2005\WINCE600\OSDESIGNS\SMDK2440-UNIP1\RELDI

I don't which libraries are those ones...

About your question "Did you enable all debugzones for USB?" I've tried to do that going to Target->CE Debug Zones->USBD.dll but I cannot modify the state.

Please could you help me? I'm too new on Windows CE development and I have to learn everything so fast...I read and read but I don't find the solution...

Thanks a lot in advance!!!!

San

"Michel Verhagen (eMVP)" wrote:

Well, if you are sure the driver is in your kernel (so you can see the files in the windows folder) then if you enter the name and the device still doesn't work it simply indicates it is either the wrong driver for the device, or you have a problem with your USB host driver.

Did you enable all debugzones for USB? What do you see when you attach the driver?

Re: Add Drivers to OS desing

Good luck,

Michel Verhagen, eMVP

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San wrote:

Hi Michel,

I did all steps you has told me, I had read the post "what build and when".

I only changed one step. As you can see in this post, Bruce told me to Copy Files before doing Sysgen if I was working with WinCE 6.0 (I didn't understand why but I did it)

I changed the project.bib in this way:

MODULES

; Name Path Memory Type

; -----

usbharv.dll

C:\WINCE600\PLATFORM\SMDK2440\Files\usbharv.dll

NK

cpl.dll

C:\WINCE600\PLATFORM\SMDK2440\Files\cpl.dll

NK

These are the 2 necessary drivers for usb conection, as written on manufacturer doc.

Anyway, it still doesn't work. When I plug in my device and windows CE ask me for the device usb driver name I write "usbharv.dll" but it doesn't works.

Any idea?

Thank you!

"Michel Verhagen (eMVP)" wrote:

Re: Add Drivers to OS desing

You don't necessarily have to modify the registry entries, *if* entering the device name works (in the dialog box that CE shows you when you plug in the device) *and* if the device has a persistent registry (which you flush after entering the name in the dialog box).

If you added the driver to the image correctly, *and* the driver is actually the correct one for the device, then entering the device name in the dialog box should work.

Did you change the platform.bib?
If you did, did you do a "Sysgen" of your *BSP*?
If you did, did you then click "Copy files to release folder" from the build menu in PB?
If you did, did you then perform a makeimg?

All these steps are listed here (read it, it'll help you):
<http://guruce.com/blogpost/whattobuildwhen>

Good luck,

Michel Verhagen, eMVP
Check out my blog:
<http://GuruCE.com/blog>

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Re: Add Drivers to OS desing

development services.

San wrote:

Hi Bruce,

I've found a document about "installing the USB communication-bus driver on windows CE" from the device vendor. The procedure is the same I had tried but it doesn't talk about modifying the registry entries. It only tells that I've to deploy 2 files (usbharv.dll and cpl.dll) to an area that windows CE will automatically search when trying to find the appropriate driver file for the module.

I've copied both files on my BSP\FILES and I've added the entry on

Re: Add Drivers to OS desing

project.bib
as modules.

After doing
what you
told me I've
laoded the
new nk.bin
to my
board. But I
doesn't
works yet.
It continues
to ask me
for the
device
driver
name...and I
try to write
it but
obviously it
tell me there
is an error...

Is the
Windows
CE's DLL
search path
correct?

I've to load
the
"include"
file
too...I've
found how
to do it
from
command
line but
how can I
do it from
Platform
Builder?

I've actually
search for
these items
on MSDN
documentation
but it

Re: Add Drivers to OS desing

doesn't
specifies
too much...

Thank
you!!!

"Bruce
Eitman
[eMVP]"
wrote:

You
need
to
get
the
registry
entries
from
the
vendor
then.

--
Bruce
Eitman
(eMVP)
Senior
Engineer
Bruce.Eitman
AT
EuroTech
DOT
com
My
BLOG
<http://geekswithblogs.net/bruceeitman>

EuroTech
Inc.
www.EuroTech.com

"San"
<San@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
<news:C3B39CA0-6A9F-4464-9DAF-D17972D9B050@xx>

Re: Add Drivers to OS desing

Sorry...I'm
too
new
on
Windows
CE
and
drivers
network

I'm
not
sure
about
which
registry
entries
I
have
to
setup...I
only
have
the
dll
file
and
there
no
information
doc
about
modifying
registry
entries...could
you
give
any
directive??

Thanks
in
advance!
I've
read
some
post
in
your
blog...It's
really

Re: Add Drivers to OS desing

helpfull
what
you
do...

Regards,

San