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Author

Topic

ntintel

Starting Member

Posted - 09/14/2005 : 17:17:56



3 Posts

I have tried the solution below from

<http://blog.opennetcf.org/pfoot/CategoryView.aspx?category=NETCF>

```

-----
public enum DevicePowerState : int
{
    Unspecified = -1,
    D0 = 0, // Full On: full power, full functionality
    D1, // Low Power On: fully functional at low power/performance
    D2, // Standby: partially powered with automatic wake
    D3, // Sleep: partially powered with device initiated wake
    D4, // Off: unpowered
}

```

```
private const int POWER_NAME = 0x00000001;
```

```

[DllImport("coredll")]
private static extern int SetDevicePower(
    string pvDevice,
    int dwDeviceFlags,
    DevicePowerState DeviceState);
-----

```

I called the method using various device names (below), but it won't work:

```

SetDevicePower("NDS1:", POWER_NAME, DevicePowerState.D4);
SetDevicePower("NDS1", POWER_NAME, DevicePowerState.D4);
SetDevicePower("TIACXWLN:", POWER_NAME, DevicePowerState.D4);
SetDevicePower("TIACXWLN", POWER_NAME, DevicePowerState.D4);
SetDevicePower("TIACXWLN1:", POWER_NAME, DevicePowerState.D4);
SetDevicePower("TIACXWLN1", POWER_NAME, DevicePowerState.D4);

```

Could anybody provide an insight on the matter? Thanks.

ntintel

Starting Member

Posted - 09/14/2005 : 17:20:30



3 Posts

Note: it executes fine, but wireless power state doesn't change



Andrewssi
Starting Member

Posted - 09/17/2005 : 05:44:41  

United Kingdom
11 Posts

What is your return value? I'm getting a value of 2, which means ERROR_FILE_NOT_FOUND (or in this context 'Device not found')

Looking at the API, it seems that a 'class' name is required as well, such as {8DD679CE-8AB4-43c8-A14A-EA4963FAA715}\DSK1

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/wceddk40/html/cerefsetdevicepower.asp>

I have a HP iPaq 5450, and the WLAN device is called VNETUSBA1. (You can find that name through the registry, or by using the OpenNETCF.Net classes.)

I am sure I just need to find the class (GUID) for my own hardware, and the function will work.



Andrewssi
Starting Member

Posted - 09/17/2005 : 06:03:25  

United Kingdom
11 Posts

A little more investigation shows that I can download the iPaq SDK from the HP website for \$199!

I imagine the information that I need is in there, but since I am upgrading soon to a WM 5 device, I guess I'll pass :(



watsonl
Starting Member

Posted - 09/23/2005 : 23:54:24  

Taiwan
3 Posts

VB version wifi on / off

```
Enum CEDEVICE_POWER_STATE
PwrDeviceUnspecified = -1
D0 = 0
D1
D2
D3
D4
PwrDeviceMaximum
End Enum
```

```
<DllImport("corell.dll")> Public Shared Function DevicePowerNotify(ByVal device As String, ByVal state As CEDEVICE_POWER_STATE, ByVal flags As Integer) As Integer
End Function
```

```
<DllImport("corell.dll")> Public Shared Function SetDevicePower( _
ByVal pvDevice As String, _
ByVal df As Integer, _
ByVal ds As CEDEVICE_POWER_STATE) As Integer
End Function
```

```
Public Shared Sub wifi_power_on()
Try
DevicePowerNotify("{98C5250D-C29A-4985-AE5F-AFE5367E5006}\TIACXWLN1",
CEDEVICE_POWER_STATE.D0, 1)
SetDevicePower("{98C5250D-C29A-4985-AE5F-AFE5367E5006}\TIACXWLN1", 1,
CEDEVICE_POWER_STATE.D0)
```

```

Application.DoEvents()
Catch
End Try

End Sub

Public Shared Sub wifi_power_off()
Try
DevicePowerNotify("{98C5250D-C29A-4985-AE5F-AFE5367E5006}\TIACXWLN1",
CEDEVICE_POWER_STATE.D4, 1)
SetDevicePower("{98C5250D-C29A-4985-AE5F-AFE5367E5006}\TIACXWLN1", 1,
CEDEVICE_POWER_STATE.D4)
Application.DoEvents()
Catch
End Try
End Sub

```



Andrewssi
Starting Member

Posted - 09/24/2005 : 15:05:58  

Hi watsonl,

United Kingdom
11 Posts

Thanks for your code. What I would really like to know, is how can I find out the GUID of my device's WIFI hardware?

So, how did you discover {98C5250D-C29A-4985-AE5F-AFE5367E5006}\TIACXWLN1 ?



watsonl
Starting Member

Posted - 09/25/2005 : 07:45:18  

Hi,

Taiwan
3 Posts

Use PHM Registry Editor

<http://www.phm.lu/Products/PocketPC/RegEdit/>

in
HKEY_LOCAL_MACHINE / System / CurrentControlSet / Control / POWER / State

Edited by - watsonl on 09/25/2005 07:46:05



Andrewssi
Starting Member

Posted - 09/25/2005 : 15:41:55  

Thanks ever so much Watsonl! I was looking in HKEY_LOCAL_MACHINE/Comm/

United Kingdom
11 Posts

Now I have the magic GUID :)



Andrewssi
Starting Member

Posted - 09/26/2005 : 01:45:07  

Just to follow up, passing the valid ID of the WLAN adapter on my iPaq 5450 ('{98C5250D-C29A-4985-AE5F-AFE5367E5006}\VNETUSBA1') caused an NDIS exception. However there is a function in the ipaquutil.dll which works fine:

United Kingdom
11 Posts

```

[DllImport("ipaquutil.dll", SetLastError=true)]
static extern bool iPAQSetWLANRadio(ref int status);

```

Details here:

<http://www.pinvoke.net/default.aspx/ipaquil.iPAQSetWLANRadio>



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