

Switching from Ad Hoc to access point mode and visa-versa

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.embedded.vc/2005-01/0241.html>

From: Laery (*thelaery_at_hotpop.com*)

Date: 01/19/05

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Hi,

I've downloaded the evaluation version.

Found in ethman en netui the sources needed to find the device name and switch the mode to and from accesspoint

```
//switching the mode
    if(iSelection == 2)
    {
        // Computer-to-computer
        s_mode = Ndis802_11IBSS;
    }
    else if(iSelection == 1)
    {
        // infrastructure (access point) network
        s_mode = Ndis802_11Infrastructure;
    }
    else if(iSelection == 0)\
    {
        // Any network (access point preferred)
        s_mode = Ndis802_11AutoUnknown;
    }

    s_pWlanInfo->dwCtlFlags &= ~INTFCTL_CM_MASK;
    s_pWlanInfo->dwCtlFlags |= (((DWORD) s_mode) &
INTFCTL_CM_MASK);

    FillPreferredLV(s_pWlanInfo);
//get the devicename (I hope this will not change)
while (ReadMsgQueue(
    hMsgQueue,
    &sDeviceNotification,
    sizeof(NDISUIO_DEVICE_NOTIFICATION),
    &dwBytesReturned,
    1,
    &dwFlags))
```

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```
{  
  
    PTCHAR ptcDeviceName = NULL;  
  
    // The device name should be in uppercase to query  
NdisUIO  
    ptcDeviceName =  
_wcsdup(sDeviceNotification.ptcDeviceName);  
    if (!ptcDeviceName)  
    {  
        DEBUGMSG(ZONE_ERROR, (TEXT("ETHMAN: Could not  
allocate memory for string \"%s\\r\\n\"),  
            sDeviceNotification.ptcDeviceName));  
        continue;  
    }  
  
    _wcsupr(ptcDeviceName);
```

I only hope it will work.

Regards

Laery

Then you probably don't have enough information to make a serious attempt at this. You could download the evaluation version of PB and go from there...

Paul T.

"Laery" <thelaery@hotpop.com> wrote in message
news:c615ddf1.0501172325.29897a9d@posting.google.com...

> *Hi Paul,*

>

> *Thanks for the response, but I don't have platform builder only evc.*

>

> *Regards*

> *Laery*

> -----

> *Yes, you can do it via the Windows Zero Config API. When you call*

> *WZCSetInterface(), you'd set the infrastructure mode field of the*

> *structure*

> *one way or the other.*

>

> *Paul T.*

>

> *"Laery" <thelaery@hotpop.com> wrote in message*

> *news:c615ddf1.0501170610.68fe154e@posting.google.com...*

>> *Hi,*

>>

>> *I'm currently working on an application where a ppc2003 device*

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prints

>> *to a mobile network printer using point-to-point wifi connection.*

>> *(both fixed IP).*

>>

>> *For communication with the PC a FTP server is started on the handheld*

>> *which is connected to a wifi-router which is connected to the pc using*

>> *a cable.*

>>

>> *The problem:*

>> *The printer is point-to-point (you cannot take the accesspoint with you on the street).*

>> *The communication with the PC is using an access-point. (There can be*

>> *several devices, more than 50, at an office location)*

>>

>> *Currently the switch in connection mode has to be done manually using*

>> *the supplies driver GUI. Is there away to do it using an API from windows?*

>>

>> *Each handheld and printer has a unique IP but the same SSID and WEP.*

>> *(same as the accesspoint)*

>>

>> *Or can something be done on the PC so that it connects to the terminals one by one.*

>>

>> *Regards*

>> *Laery*