

Re: Wi-Fi AP selection by BSSID

Source:

<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2005-10/msg00139.html>

- *From:* "Benoît Bousquet" <bbousquet@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 6 Oct 2005 13:43:57 -0400
-

Further evidence confirming the issue: updating Intel 2200BG integrated wireless adapter drivers from the 2004 (8.something) version to the 2005 (9.0.something) version magically solved the issue with those adapters.

-BB

"Benoît Bousquet" <bbousquet@xxxxxxxxxxxxxxxxxxxx> wrote in message news:uwojtXpyFHA.3952@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

> That's what I was beginning to believe. So far I tested a number of
> different adapters (DLink DWL-122 USB, Cisco Aironet 350 PCMCIA, DLink
> AirPlus DWL-650 PCMCIA, some Sony Ericsson GPRS/WiFi PCMCIA cards, USR
> 802.11g Turbo-Something PCMCIA, LinkSys 802.11b WiFi USB) and only the
> LinkSys USB card behaved properly.

>

> -BB

>

> "Pavel A." <pavel_a@xxxxxxxxxxxxxxxxxxxx> wrote in message

> news:5D4EC7D5-AFC7-4EE2-BD88-BE3FBE0E2097@xxxxxxxxxxxxxxxxxxxx

>> Looks like a problem with the drivers.

>> AFAIK, ndistest for wi-fi adapters does not check scenario of association

>> by

>> BSSID

>> (or the latest version does this?) so it is quite possible that the

>> vendor

>> forgot to test this.

>>

>> Regards,

>> --PA

>>

>> "Benoît Bousquet" wrote:

>>> My NDIS IM driver is offering Wi-Fi services to a user-mode application,

>>> through IOCTL calls (the driver generates NdisRequest calls to its bound

>>> adapter). Currently, a typical association proceeds as follows (and it

>>> works

>>> quite well):

>>>

>>> OID_802_11_INFRASTRUCTURE_MODE

>>> OID_802_11_AUTHENTICATION_MODE

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>>> OID_802_11_ADD_WEP (if needed)
>>> OID_802_11_WEP_STATUS
>>> OID_802_11_BSSID
>>> OID_802_11_SSID
>>>
>>> I have, however, run across an issue when faced with multiple access
>>> points
>>> using the same SSID. I was under the impression (after reading the DDK
>>> docs
>>> over and over) that an OID_802_11_SSID request would establish the
>>> association AND that it would use the currently set BSSID value to
>>> further
>>> restrict its AP selection. On both adapters I tested with (a lousy DLink
>>> DWL-122 USB gizmo and a reliable Cisco Aironet 350 PCMCIA card) the
>>> behavior
>>> seemed erratic – the DLink seemed to ignore my BSSID setting and just
>>> picked
>>> the AP with the higher RSSI, and the Cisco apparently did something
>>> similar
>>> (I couldn't do more extensive tests with it yet).
>>>
>>> Am I doing something wrong or just plain missing a step?
>>>
>>> Sample association that doesn't always behind to the desired BSSID:
>>> – OID_802_11_INFRASTRUCTURE_MODE:
>>> Ndis802_11Infrastructure
>>> – OID_802_11_AUTHENTICATION_MODE
>>> Ndis802_11AuthModeOpen
>>> – OID_802_11_WEP_STATUS
>>> Ndis802_11WEPDisabled
>>> – OID_802_11_BSSID
>>> 01:02:03:04:05:06 (desired AP's BSSID)
>>> – OID_802_11_SSID
>>> "MultipleAPName"
>>>
>>> ----
>>> Benoît Bousquet
>>>
>>>
>>>
>
>

• **References:**

◆ **Wi-Fi AP selection by BSSID**

◇ From: Benoît Bousquet

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