

Problem with Ad-hoc wireless network Windows to Linux (no ping)

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 - *Date:* Fri, 29 Feb 2008 08:27:22 -0800 (PST)
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Hello All,

Sorry for the verbosity of this post...

I am trying to set up an ad-hoc wireless network between two computers; one running Windows XP and the other Linux (2.6.x, Slackware).

After I have set them up I cannot ping the Linux machine from the Windows machine.

This is what I have done so far:

* Made sure that the Wlan card is running on the Linux machine (it is; it's a RT61 based D-Link DWL-G510). It works fine when in "managed" mode (connecting to an access-point); I'm using the latest firmware/drivers I could find.

* Made sure that the Wlan card is running on the Windows machine (it is; Intel something-something built into a Dell laptop).

Then I try to set things up.

** On the Linux machine:

```
$ modprobe rt61 (load module, card is recognized)
$ iwconfig ra0 essid box (ra0 is my RT61, set SSID)
$ iwconfig ra0 channel 11 (we are in Europe)
$ iwconfig mode Ad-Hoc (this is what I want; no encryption)
$ ifconfig eth0 down (just in case; remember ra0 is the WLAN card)
$ ifconfig ra0 10.0.0.1 netmask 255.255.255.0 up (interface comes up)
```

```
$ ifconfig ra0
ra0 Link encap:Ethernet HWaddr 00:19:5B:70:2D:D2
inet addr:10.0.0.1 Bcast:10.0.0.255 Mask:255.255.255.0
inet6 addr: fe80::219:5bff:fe70:2dd2/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:3 errors:0 dropped:0 overruns:0 frame:0
TX packets:7 errors:0 dropped:0 overruns:0 carrier:0
```

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```
collisions:0 txqueuelen:1000
RX bytes:192 (192.0 b) TX bytes:468 (468.0 b)
Interrupt:10
```

```
$ iwconfig ra0
ra0 RT61 Wireless ESSID:"" Nickname:""
Mode:Ad-Hoc Frequency:2.462 GHz Cell: 66:9F:2C:DA:89:A7
Bit Rate=54 Mb/s
RTS thr:off Fragment thr:off
Encryption key:off
Link Quality=0/100 Signal level:-121 dBm Noise level:-99
dBm
Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0
Tx excessive retries:0 Invalid misc:0 Missed beacon:0
(note: the empty ESSID is normal. The card broadcasts the name
anyways)
```

```
$route -n
Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref
Use Iface
10.0.0.0 0.0.0.0 255.255.255.0 U 0 0
0 ra0
127.0.0.0 0.0.0.0 255.0.0.0 U 0 0
0 lo
```

From what I can see the "ra0" interface is up and running and it's

wating for an "Ad-hoc Handshake" or similar. We also have a rudimentary routing table.

** Now I configure the Windows machine

- * Enable Wireless (OK)
- * In the network list I can see the "box" station configured on the Linux machine.
- * Tell the Wireless card to start an ad-hoc network with SSID "box" on channel 11 with no encryption (it's "open")
- * Set properties for the "wireless network connection" in the control panel so it reads:

```
IP-address ..... 10.0.0.2
Netmask ..... 255.255.255.0
Standard gateway .. 10.0.0.1
```

After a few seconds I get a "green light" and Windows tells me I am connected to the "box" network. Now the Windows machine has IP 10.0.0.2 with netmask 255.255.255.0 (ipconfig.exe confirms this).

Now: I still cannot ping the Linux machine (10.0.0.1 [255.255.255.0]).

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I get no reports of connection problems. Still every ping times out. Of course, when connected to an "ordinary" lan I can ping the Linux machine from Windows without problems.

I suspect that I am doing something stupid with the routing thingamajig but I can't figure out what.

Any ideas? Has anyone else managed to set up a simple ad-hoc connection in this fashion? What am I doing wrong here?

Regards,

Tobias Andersson

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