

Re: problem with if\_wpi and wpa\_supplicant.

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2007-11/msg01523.html>

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- *From:* Benjamin Close <[Benjamin.Close@xxxxxxxxxxxxxxxx](mailto:Benjamin.Close@xxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 27 Nov 2007 18:40:49 +1030
- 

Jeff Palmer wrote:

Hello current@,

I've got a laptop that uses the intel 3945abg wireless chipset. I've followed ben's trials and tribulations with the wpi driver for several months.

At one point, I had plain (unsecured) authentication as well as WEP authentication working. (this is several months ago now)

However, the last 2 renditions of the driver won't even work if I have WEP enabled.

Having seen the recent import into HEAD (8.0-CURRENT) I decided to give it another whirl on my laptop.

With the november 2007 driver on the clearchain site, I can associate to a completely nencrypted AP. However, using WEP or WPA fails. I can't even associate to a WEP enabled AP if I set everything manually with ifconfig.

Details are as follows.

Machine: Toshiba Satellite A135-S4517

OS: FreeBSD Laptop.totaldiver.net 7.0-BETA3 FreeBSD 7.0-BETA3 #0: Fri

Nov 23 21:33:53 EST 2007 root@xxxxxxxxxxxxxxxxxxxxxx:usr/obj/usr/src/sys/GENERIC i386

Driver:

<http://people.freebsd.org/~benjsc/downloads/wpi/20071102-freebsd-wpi.tar.gz>

Relevant parts of /boot/loader.conf

```
if_wpi_load="YES"
```

```
legal.intel_wpi.license_ack=1
```

Relevant parts of /etc/wpa\_supplicant.conf

```
network={
```

```
ssid="TEST"
```

```
scan_ssid=1
```

```
key_mgmt=WPA-PSK
```

```
psk=4a4de711b81e90f30a5ec88682185a74d20eb85c982f11fe035c87726b43c6c5
```

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}

The only hint I've been able to find so far, comes from using wpa\_supplicant in debug mode.

```
Relevant log from: wpa_supplicant -d -i wpi0 -c /etc/wpa_supplicant.conf
Nov 25 00:32:13 Laptop kernel: idx=192 flags=0 type=119 len=4
Nov 25 00:32:13 Laptop kernel: cmd notification qid=4 idx=192 flags=0
type=WPI_CMD_SET_POWER_MODE len=4
Nov 25 00:32:13 Laptop kernel: wpi_cmd 155 size 12 async 0
Nov 25 00:32:13 Laptop kernel: notify qid=0 idx=0 flags=0 type=28 len=16
Nov 25 00:32:13 Laptop kernel: cmd notification qid=0 idx=0 flags=0
type=WPI_CMD_TX_DATA len=16
Nov 25 00:32:14 Laptop kernel: wpi0: could not configure bluetooth
coexistence
Nov 25 00:32:14 Laptop kernel: Scan cancelled
Nov 25 00:32:14 Laptop kernel: config chan 6 flags 8005 cck f ofdm 15
Nov 25 00:32:14 Laptop kernel: wpi_cmd 16 size 43 async 1
Nov 25 00:32:14 Laptop kernel: wpi0: wpi_cmd: cmd 16 not sent, busy
Nov 25 00:32:14 Laptop kernel: wpi0: could not configure
Nov 25 00:32:14 Laptop kernel: wpi0: could not send authentication request
Nov 25 00:32:14 Laptop kernel: NEWSTATE:INIT
Nov 25 00:32:23 Laptop kernel: wpi0: timeout resetting Tx ring 1
Nov 25 00:32:23 Laptop kernel: wpi0: timeout resetting Tx ring 3
Nov 25 00:32:23 Laptop kernel: wpi0: timeout resetting Tx ring 4
Nov 25 00:32:23 Laptop kernel: NEWSTATE:INIT
Nov 25 00:32:23 Laptop kernel: notify qid=80 idx=0 flags=0 type=1 len=36
Nov 25 00:32:23 Laptop kernel: microcode alive notification version
10e02 alive 1
Nov 25 00:32:23 Laptop kernel: notify qid=80 idx=0 flags=0 type=1 len=36
```

The part that caught my attention was

```
Nov 25 00:32:14 Laptop kernel: wpi0: could not configure bluetooth
coexistence
```

Google seems to offer 0 results for the above. Looking through the code in the wpi driver tarball shows where the error is coming from, but the part I'm not understanding is: this machine doesn't have bluetooth, nor any bluetooth devices.

I'm not sure what other info would be needed, but I'm willing to provide anything I can to ben or the community at large. I haven't succeeded any producing a log as to why it won't associate to a WEP enabled AP when manually configured using ifconfig.

Hi Jeff,

From what I can gather, bluetooth is part of the chipset. Having said that I've got no specs so perhaps it's not. I also see the firmware doesn't complain about the failed command.

Could you try the following patch and see if it makes a difference. Also can you provide the relevant section of a pciconf -lv. I'm curious as to whether you have an ABG card or simply a BG card – I know they exist but haven't found them yet.

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```
diff --git a/sys/dev/wpi/if_wpi.c b/sys/dev/wpi/if_wpi.c
index 43d5512..517473e 100644
--- a/sys/dev/wpi/if_wpi.c
+++ b/sys/dev/wpi/if_wpi.c
@@ -2920,8 +2920,7 @@ wpi_config(struct wpi_softc *sc)
0);
if (error != 0) {
device_printf(sc->sc_dev,
- "could not configure bluetooth coexistence\n");
- return error;
+ "could not configure bluetooth coexistence, device lacks bluetooth support?\n");
}

/* configure adapter */
```

Cheers,  
Benjamin

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