

01 January 2008

Using a W910i as a Dial-up Adaptor

Now that Mobile Broadband Dongles are everywhere this seems a little pointless, but it is useful where there is bad coverage, or for those on a budget. When Opera Mini is used (see http://benscomputer.no-ip.org/2009/Jan/Opera_Mini_In_Linux.pdf for details on setting up) reasonable speeds can be obtained.

This guide is to use the phone via USB and works on T-Mobile in the UK.

Preparation

Ensure the following is enabled in your kernel config

```
Device Drivers
--USB support
----USB Modem (CDC ACM) support
----USB Serial Converter support
```

- Install Wvstreams (<http://alumnit.ca/wiki/?page=WvStreams>)
- Install Wvdial (<http://alumnit.ca/wiki/index.php?page=WvDial>)
- or on Gentoo *emerge -av wvdial*
- Connect the Phone to the computer by USB, Select Phone Mode on the W910i

Configuration

```
run wvdialconf
edit /etc/wvdial.conf (i.e. nano /etc/wvdial.conf)
```

change the *Phone =* line to

```
Phone = *99*1#
```

Change the ; *Username =* line to

```
Username = t-mobile
```

Change the ; *Password=* line to

```
Password = 00
```

**NOTE: These are the settings my phone uses, check the settings on yours on your phone
Menu --> Settings --> Connectivity --> Internet Settings --> Connect Using --> Options --> Edit**

The password appears starred so I guessed mine, may have got lucky it may just be there because it's a required field.

Save and exit */etc/wvdial.conf*

http://benscomputer.no-ip.org/2009/Jan/Using_W910i_As_A_Dial_Up_Adaptor_Linux.pdf

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Access Rights

Add any users that you want to be able to dial up to the groups dialup and uutp
First check the *dialup* group exists

```
grep dialup /etc/group
```

if nothing is shown

```
groupadd dialup
```

then check for *uutp*

```
grep uutp /etc/group
```

again if nothing is shown add the group

```
groupadd uutp
```

Now add each user to those groups

```
usermod -a -G dialup username
```

```
usermod -a -G uutp username
```

check that the user was added successfully

```
id username
```

output should contain the group name.

Repeat these steps for every user you want to allow to dial out.

NOTE: The groups your users require may differ, pay close attention after installing wvdial, it will often tell you exactly which groups are relevant.

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Connect

To dial a connection (try it first as root)

wvdial

which should produce output similar to this;

```
rochanski@ben:~$ wvdial
--> Ignoring malformed input line: "; [Dialer Defaults]"
--> WvDial: Internet dialer version 1.60
--> Initializing modem.
--> Sending: ATZ
ATZ
OK
--> Sending: AT00 V1 E1 S0=0 &C1 &D2 +FCLASS=0
AT00 V1 E1 S0=0 &C1 &D2 +FCLASS=0
OK
--> Modem initialized.
--> Sending: ATDT*99*1#
--> Waiting for carrier.
ATDT*99*1#
--[7f]}#0!}!)! }8)#50#(}"')~"}6 } } }%)6)9[0c]Hd57~
CONNECT
--> Carrier detected. Waiting for prompt.
--[7f]}#0!}!)~"}8)#50#(}"')~"}6 } } }%)6)9[0c]Hd[7f]~
--> PPP negotiation detected.
--> Starting pppd at Sat Jan 10 04:27:16 2009
--> Pid of pppd: 10385
--> Using interface ppp0
--> pppd: 000000[06][08] 0[06][08]
--> pppd: 000000[06][08] 0[06][08]
--> pppd: 000000[06][08] 0[06][08]
--> pppd: 000000[06][08] 0[06][08]
--> local IP address 10.207.210.146
--> pppd: 000000[06][08] 0[06][08]
--> remote IP address 10.64.64.64
--> pppd: 000000[06][08] 0[06][08]
--> primary DNS address 149.254.192.126
--> pppd: 000000[06][08] 0[06][08]
--> secondary DNS address 149.254.201.126
--> pppd: 000000[06][08] 0[06][08]
```

You are now connected, use the net through your Web browser, check your E-mail etc.

To disconnect click in that console window and press *ctrl-c* to terminate the process.

Notes

Be aware that some providers do discern between traffic generated by a PC connected to the phone and the Phone itself. It is well worth double checking what your providers policies are, especially if you are using a Contract phone. Data charges can be very expensive, so it's best to avoid a surprise bill.

If you are on Pay as You go then your credit may run down more quickly than you would expect, but at least you won't receive a massive bill at the end of the month.

The Phone has an option for connection type under

Menu --> Settings --> Connectivity --> Data Communication --> Preferred Service

Mine was set to CS Only by default, this is the difference between Dial-up speeds and 3G speeds, so it's worth setting to PS and CS.