

# Re: Verizon wireless with ubuntu

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Ubuntu/2008-02/msg02220.html>

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- *From:* "B.J. McClure" <[keepertoad@xxxxxxxxxxx](mailto:keepertoad@xxxxxxxxxxx)>
  - *Date:* Mon, 25 Feb 2008 16:02:49 -0500
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On Mon, 2008-02-25 at 12:33 -0500, DScherquist@xxxxxxxxxxxxxxxx wrote:

Does anyone know how to user a Verizon Wireless Wan pcmcia cad with Ubuntu? According to Verizon they do not support Linux. With that said im sure that there is a way to have them work in harmony.  
Any suggestions

Thanks

This is the guide I used for a Verizon V740 Express Card set up on 7.10 and it has worked well. Not sure where I acquired this guide but hope it works for you. Please note the series of ? on the "Username" line is your assigned telephone number for your card.

Lightbulb [SOLVED] How To set up EVDO card or usb enabled phone ( CDMA modem ) Updated

This section has been created to fix issues created in Gutsy and applies to Gutsy only

After extensive tests this is for now the only clean way to get EVDO modem to work on a new 7.10 installation .

All upgrades directry from Feisty seem to work fine unless the Evdo card / modem is upgraded then it automatically plugs default Gutsy driver.

In case this happens or you just installed fresh 7.10 you can execute following fix.

Gutsy changed USB handling so to re enable /proc/bus/usb/devices directory type in terminal :

Code:

```
gedit /etc/init.d/mountdevsubfs.sh
```

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Now remove " # " symbols from the front of following lines of code :

Code:

```
#mkdir -p /dev/bus/usb/.usbfs
#domount usbfs "" /dev/bus/usb/.usbfs
--obusmode=0700,devmode=0600,listmode=0644
#ln -s .usbfs/devices /dev/bus/usb/devices
#mount --rbind /dev/bus/usb /proc/bus/usb
```

Now to stop new Airprime driver from loading execute following in the terminal:

Code:

```
sudo gedit /etc/modprobe.d/blacklist
```

Insert at the bottom :

Code:

```
#Block Airprime driver to force kernel to use usbserial
blacklist airprime
```

From here you should be able to continue with this how to as above fix

will enable single device identifier which can be used for setup with wvdial , KPPP dialer or Gnome PPP .

If you find more streamlined way to do it or other posts that may help us feel free to let us know by posting it in this thread .

I like to thank to all those that have helped me through forums,web pages and personal support to create this how to .

I have tested it on the 32bit 6.10 and 7.04 Ubuntu version so back up any files you will be editing before you proceed .

Devices i have used are Verizonn Motorola v3 EVDO enabled phone connected via USB cable as well as number of other EVDO cards like PC5750 .

Make sure your device is activated by service provider and if possible test on other OS to which you may have software and drivers.

Open terminal window and type:

Code:

```
sudo -i
```

enter your password.

Now all commands typed in this window will be executed with root privileges .

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In terminal type:

Code:

```
apt-get update
apt-get upgrade
apt-get install wvdial
```

Before you insert the Card or connect USB cable open terminal window and type :

Code:

```
cat /proc/bus/usb/devices > devices
```

Insert your data card or plug in USB cable and wait for a few seconds before continuing.

In terminal type:

Code:

```
dmesg
```

You will get output with some device info like this :

Code:

```
[17186692.460000] usb 3-1: configuration #1 chosen from 2 choices
[17186692.460000] cdc_acm 3-1:1.0: ttyACM0: USB ACM device
[17186708.176000] usb 3-1: USB disconnect, address 4
[17186714.588000] usb 3-1: new full speed USB device using uhci_hcd and address
```

At the end of this output you will find your device witch will be represented like this: ttyACM0 or ttyUSB or similar , make note of it you will need it later.

Now type in terminal:

Code:

```
diff /proc/bus/usb/devices devices | grep Vendor
```

Output will be similar to:

Code:

```
< P: Vendor=1234 ProdID=5678 Rev= 0.00
```

Make note of lines: Vendor=1234 , ProdID=5678

Now in teminal type following code Replacing values 1234 and 5678 with your own output from previously noted lines ::

Code:

```
modprobe usbserial vendor=0x1234 product=0x5678
```

Now you will edit wvdial config file by first typing in terminal :

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Code:

```
sudo gedit /etc/wvdial.conf
```

In new opened window replace all text with following :

Code:

```
[Dialer Defaults]
Stupid Mode = on
Modem = /dev/ttyACM0
Baud = 921600
Init = ATZ
Init2 = ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
Phone = #777
Username = ?????????@vzw3g.com
Password = vzw
Init1 = ATZ
ISDN = 0
Modem Type = Analog Modem
Auto Reconnect = on
Carrier Check = no
[Dialer shh]
Init3 = ATM0
[Dialer pulse]
Dial Command = ATDP
```

In the line "Modem =" replace ttyACM0 with value you noted from output of " dmesg " command.

In the line " Username = " put your phone number followed by your providers domain , for Verizon it is area code , your phone number and domain ,

in this format: 9178889999@xxxxxxxxxx

for sprint it will be 9178889999@xxxxxxxxxxxxxx , for At&t / Cingular WAP@xxxxxxxxxxxxxx ,for Alltel 9178889999@xxxxxxxxxx and so on , further post have config's posted for other providers.

In line " password = " in case of Verizon put : " vzw " for Cingular : " cingular1 " and so on , make sure to check with your provider as username and/or password may differ for other regions and countries .

If you are Cingular/AT&T subscriber and after completing whole guide you have problem with dropping connection you have to add another int line in wvdial script which is posted here

<http://ubuntuforums.org/showthread.php?t=343989&page=3>

If you need any specific info regarding your domain or password please contact your cellular provider.

The last thing you need to configure is wvdial line checking , by disabling LCP echo checking witch is not supported by most of providers.

Open terminal and type:

Code:

```
sudo gedit /etc/ppp/peers/wvdial
```

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And insert additionally those lines:

Code:

```
lcp-echo-failure 0  
lcp-echo-interval 0
```

Make sure your ethernet jack is unplugged and wifi radio switch is turned off.

Now you can start connection by typing in terminal :

Code:

```
wvdial
```

Another thing i have been suggested is automating the connection process.

To do so in Gnome go to :

Code:

System > Preferences > Sessions

next, click on the tab labeled, "Startup Programs"

then click the "Add" button.

In the Startup Command field, enter "wvdial" and then click "OK".

Then restart your system.

Now make sure your EVDO card is inserted before you boot it up , it will initiate the connection process automatically in the background connecting you to internet the second you log in.

Additional reads on the subject:

<http://ubuntuforums.org/archive/index.php/t-366229.html>

<http://kenkinder.com/evdo-pc5740/>

<http://doc.gwos.org/index.php/EV-DO>

Please let me know about any problems and bugs you will encounter.

Happy surfing.

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Latitude D610 , 2GhzCentrino , 2Gig-ram , Intel 915 chipset  
integr.graphics , Iw-2200-miniPCI , Pantech 5750 , Orinoco-Gold-Pcmci ,  
120gig-HD , 14.1-SXGA , Xp-pro , Feisty  
Last edited by Mach1US : 3 Weeks Ago at 03:28 PM.

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