

My Packet Radio – Experiment 2

Documentation assembled by Larry Lovell – 31 January 2019

```
sudo apt-get autoremove
```

Use: [MyRaspberryPiSettingUpYourAudio.pdf](#) to first set up audio on the Raspberry Pi.

Packet Radio with the Raspberry Pi

Packet Radio TNC with the Raspberry Pi

<https://photobyte.org/packet-radio-raspberry-pi/>

** Updated 21-2-18

The Pi plus a USB soundcard is all you need to get started with Packet Radio. Instead of using a dedicated hardware TNC, the Pi can be coaxed to do the hard work of managing the Packet protocol.

Full instructions can be found on the WB2OSZ's website at: <https://github.com/wb2osz/direwolf>

Installation

Start with the latest version of Raspbian Stretch and update it as follows:

```
sudo apt -y update && sudo apt -y upgrade  
sudo reboot
```

The only additional package required is libasound2-dev so install that as follows:

```
sudo apt install -y libasound2-dev
```

Now we can install Dire Wolf as follows:

```
cd~
```

```
git clone https://github.com/wb2osz/direwolf
```

```
cd direwolf
```

```
make
```

```
sudo make install
```

```
make install-conf
```

```
make install-rpi
```

Now we need to make a couple of changes to the configuration file:

sudo nano direwolf.conf

Scroll down to the line: **#ADEVICE - plughw:1,0** and delete the # from the start of both lines.

Scroll down to **CHANNEL 0 PROPERTIES** and replace NOCALL with your callsign-1, i.e. G4WNC-1. **NB: This must be caps.**

Press **Ctrl x** followed by **y** to save and close the file.

Reboot the Pi and run Dire Wolf by double-clicking on the desktop icon.

If you want an APRS client for the Pi then YAAC works well.

You can also add a USB GPS or a GPS Hat to make the Pi into an APRS tracker. Details are on the WB2OSZ website.