



# planefinder

## Welcome

Thank you for sharing your ADS-B data with Plane Finder.

We know how much time and energy goes into creating a reliable ADS-B feed and very much appreciate the contributions of all who share with us.

To get the most from Plane Finder we highly recommend that you use our Plane Finder client.

Whilst many other methods are available we do see decoding and data errors from time to time with some third party clients.

Using the Plane Finder client will ensure optimal data quality.

You'll also get some pretty neat stats, maps and more!

Please don't forget to ask us for free apps for iPad, iPhone and Android too!

### **Client System Requirements:**

We support the following Receivers:

- Kinetic Avionics Puck, SBS3, SBS1er and SBS1 - USB and Network
- Mode-S Beast - USB and Network
- Radarcape
- DVB-T / RTL dongles - USB and Network (With Dump1090 or similar)
- AVR compatible receivers - USB/Serial and Network
- AirNav Radarbox - USB and Network

Operating Systems currently tested:

- Linux ARMHF (Raspberry Pi, Beaglebone)

*We will be adding more soon!*

# Installation & Configuration

## Raspberry Pi example

You need to start with your RTL-SDR Drivers and Dump1090 working.

There is a great guide to that here:

<http://www.satsignal.eu/raspberry-pi/dump1090.html>

Once done download the Plane Finder client (*pfclient*) with the following command:

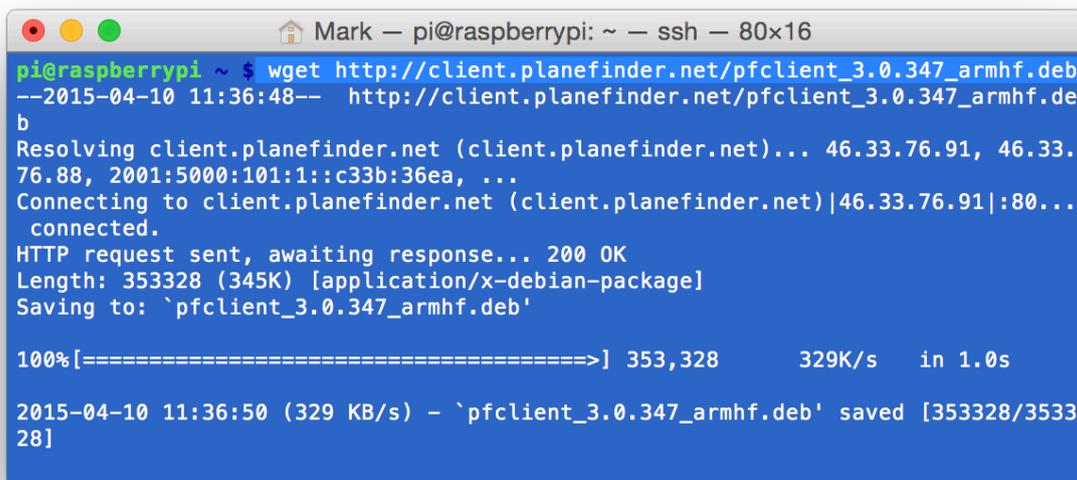
**wget http://client.planefinder.net/pfclient\_x.x.x\_armhf.deb**

*(replace x.x.x with the current version number – you can get the latest version from here*

*<https://planefinder.net/sharing/client>)*

I used SSH but you could do this directly on your Pi too

You should see something like this...



```
Mark — pi@raspberrypi: ~ — ssh — 80x16
pi@raspberrypi ~ $ wget http://client.planefinder.net/pfclient_3.0.347_armhf.deb
--2015-04-10 11:36:48-- http://client.planefinder.net/pfclient_3.0.347_armhf.de
b
Resolving client.planefinder.net (client.planefinder.net)... 46.33.76.91, 46.33.
76.88, 2001:5000:101:1::c33b:36ea, ...
Connecting to client.planefinder.net (client.planefinder.net)|46.33.76.91|:80...
connected.
HTTP request sent, awaiting response... 200 OK
Length: 353328 (345K) [application/x-debian-package]
Saving to: `pfclient_3.0.347_armhf.deb'

100%[=====>] 353,328      329K/s   in 1.0s

2015-04-10 11:36:50 (329 KB/s) - `pfclient_3.0.347_armhf.deb' saved [353328/3533
28]
```

Then run this to unpack and install the Plane Finder client:

**sudo dpkg -i pfclient\_x.x.x\_armhf.deb**

*(replace x.x.x with the current version number again)*

You should see this:

```
Mark — pi@raspberrypi: ~ — ssh — 80x14
pi@raspberrypi ~ $ sudo dpkg -i pfclient_3.0.347_armhf.deb
Selecting previously unselected package pfclient.
(Reading database ... 78153 files and directories currently installed.)
Unpacking pfclient (from pfclient_3.0.347_armhf.deb) ...
Setting up pfclient (3.0.347) ...
[...] Starting pfclient: pfclient2015-04-10 10:38:09.687041 Initialising daemon
...
2015-04-10 10:38:09.689468 Daemon running on PID: 3915
2015-04-10 10:38:09.690221 We were unable to locate a configuration file and have
entered configuration mode by default. Please visit: http://192.168.0.41:30053
to complete configuration.
. ok
pi@raspberrypi ~ $
```

The Plane Finder client is now installed!

Now to get your Plane Finder share code and start sharing your data.

The client screenshot above shows my Pi IP address. Paste yours into your browser. *(If you are using your Pi browser you could also run 127.0.0.1:30053)*

My Pi IP address happens to be 192.168.0.41 so entering 192.168.0.41:30053 into my browser gives me this:



To share your receiver data with Plane Finder you'll need to create a sharecode. If you already have a sharecode that you'd like to use, please [click here](#). If not, simply fill out the form below and we'll generate one for you!

Email address

Receiver Lat

Receiver Lon

[I already have a sharecode!](#)

Simply follow these instructions (*Latitude and Longitude need to be in Digital Decimal format*).

Once done select "Create a new sharecode". The code will also be emailed to you.

**Note** - *You can't re-use your old sharecode/password from our old clients with this new one.*

The only step left is to configure your receiver. Here I am using an DVB-T stick and Dump1090.

**The Beast format is the best to use and on my version this is on port 30005.**

For this configuration I chose the Beast Button, IP 127.0.0.1 and port 30005. Clicking “Complete configuration” was then all that I needed to do.

Receiver data format

Beast Kinetic 30003 (Basestation) AVR (TCP) Radarbox Radarcape

How are you connecting to your receiver?

Network Serial

IP address  
127.0.0.1

Port number  
30005

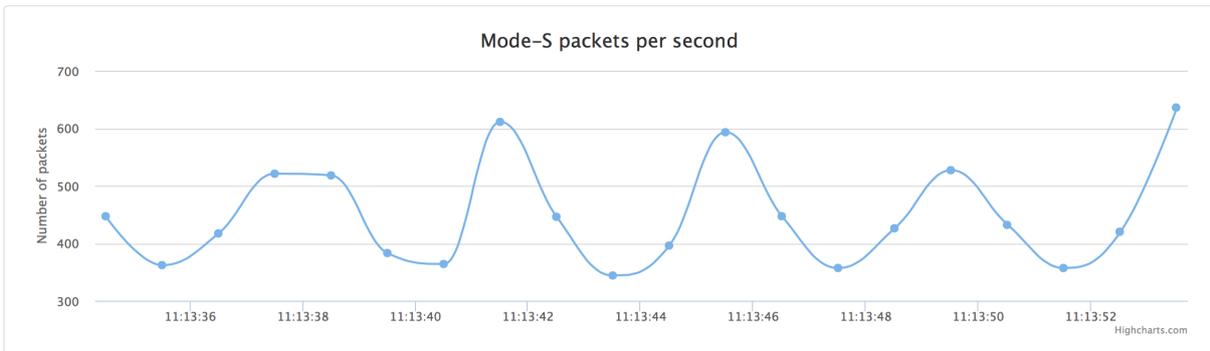
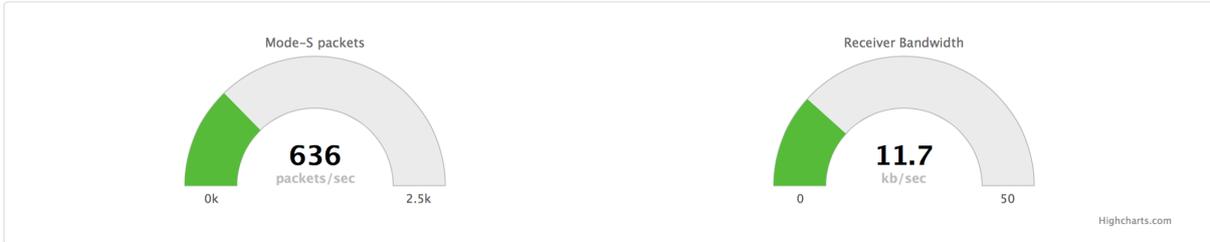
Complete configuration

Once done you can see tabs in the browser for Map View, Data View, Stats and Settings.

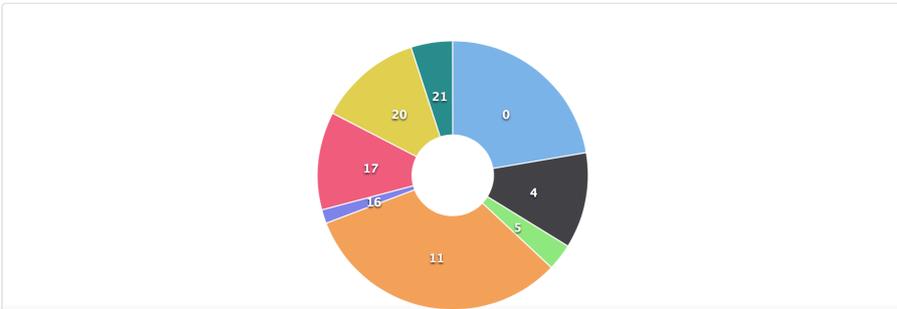
We think that these are pretty cool and hope that you agree.

Here's a quick screenshot of my stats page:

Client start date	Fri Apr 10 2015 11:38:09 GMT+0100 (BST)
Client version	3.0.347
Client uptime	00:35:43
Total Mode-S packets received over the last 24 hours	853,167 (0 previously)
Total data sent to Plane Finder over the last 24 hours	1,142.211kb (0kb previously)



Mode-S packet type	Total received
0	190,408
4	98,254
5	27,241
11	274,636
16	14,051
17	100,537
20	105,645
21	42,395



# Upgrading your Plane Finder client

This is super simple too...

Just redo the two installation steps. Your configuration is saved and re-used so you won't need to change that.

Your version number will be shown here on your client web page *IPaddress:30053*



[Map View](#) [Data View](#) [Log Viewer](#) [Stats](#) [Settings](#)

Client start date	Fri Apr 10 2015 12:54:43 GMT+0100 (BST)
Client version	3.0.364
Client uptime	00:03:58
Total Mode-S packets received over the last 24 hours	118,080 (0 previously)
Total data sent to Plane Finder over the last 24 hours	139.174kb (0kb previously)

Thanks again for sharing with Plane Finder.