



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. 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 Android and Apple TV too!

Supported Receivers & Linux Versions

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
- Probably more! Let us know if yours isn't on the list.

Operating Systems currently tested:

- Linux ARMHF (Raspberry Pi, Beaglebone, Radarcape)
- Linux i386

Installation Requirements:

Installation is very simple. You will need to know:

- The output port of your receiver software – Dump1090 etc.
- The IP address of your receiver if using a network option
- **RTL devices** will 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>
- **Radarcape** – We recommend that you update to Debian as this resolves a time issue. <http://wiki.modesbeast.com/Radarcape:DebianSupport>

We also recommend that you also create a Plane Finder account for enhanced stats and advertising free access to planefinder.net. You can do this here:

<https://planefinder.net/sharing/>

Note: Please use your share code only once per receiver. For installations with more than one receiver simply run multiple client instances each with their own unique share code.

Ports & Data Quality

It is important to note that software and ports are not all created equal.

There are a lot of software tools out there. Most of these do a great job but sometimes we see settings and options that manipulate or change data in unforeseen or unpredictable ways!

For example **Dump1090 with fec/aggressive modes set causes some nasty data quality issues.**

We also strongly recommend that you use RAW or BEAST data as the input to Plane Finder wherever possible.

Please **do not use port 30003** unless you have no other option available (Port 30003 is only a subset of the original ADS-B data).

If you are seeing problems with the data in your receiver software please resolve before sharing with Plane Finder. If in doubt please check our forum at <http://forum.planefinder.net> or contact us via support@pinkfroot.com

Installation & Configuration

Client Installation

Either run directly on your device or access via SSH.

Copy the link from <https://planefinder.net/sharing/client>

It will look something like this: `wget http://client.planefinder.net/pfclient_x.x.x_armhf.deb`

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 that you can see in the previous command)

The Plane Finder client is now installed!

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

The client completion screen will show your IP address:30053. Follow the link of paste into your browser. My device IP address happens to be 192.168.0.41 so entering 192.168.0.41:30053 into my browser gives me this:

(If you are using the browser on your device you could also run 127.0.0.1:30053)



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

Simply fill in the boxes

Latitude and Longitude if entered manually need to be Digital Decimal format i.e. 48.858289, 2.294562

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

Note - You cannot re-use your old sharecode/password from old Plane Finder clients with this new one.

You can add your new sharecode to your account on <https://planefinder.net/sharing/>

Note – if re-visiting the configuration of an existing installation select "I already have a sharecode" and enter the sharecode received originally via email.

The only step left is to tell our client about your receiver.

Pi/RTL

In the example below I am running an RTL device and Dump1090 on the same machine. Dump1090 is outputting on Beast data format on port 30005 so I choose AVR (TCP) and enter the IP address **127.0.0.1** and port **30005** as shown below:

Receiver data format

How are you connecting to your receiver?

IP address

Port number

Radarscape Users

*Simply choose Radarscape -> Network and then enter the IP address **127.0.0.1** and port **10006***

Complete Configuration

Once you have setup your receiver then click "Complete configuration" when done.

You should then see tabs in the browser for Map View, Data View, Log Viewer Stats and Settings.

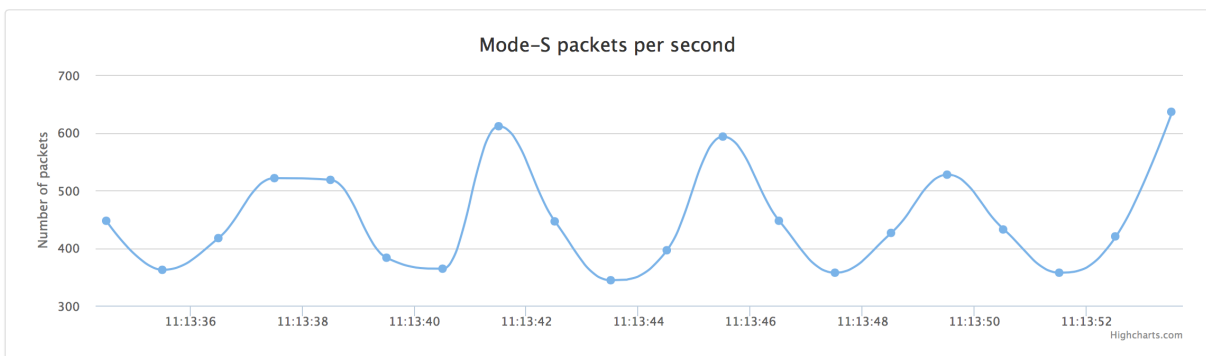
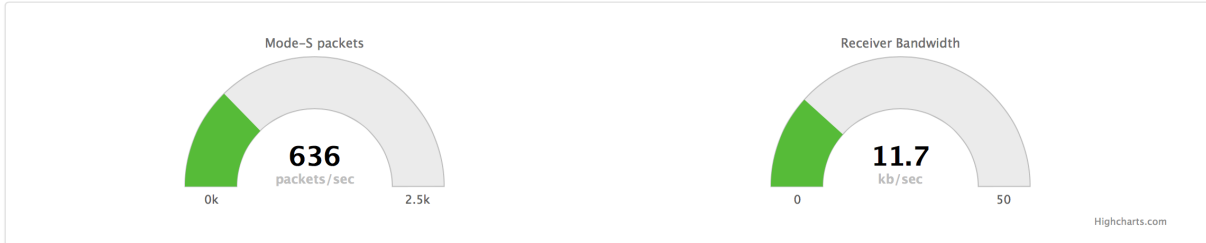
We think that these are pretty cool and hope that you agree!

Stats & Receiver Performance

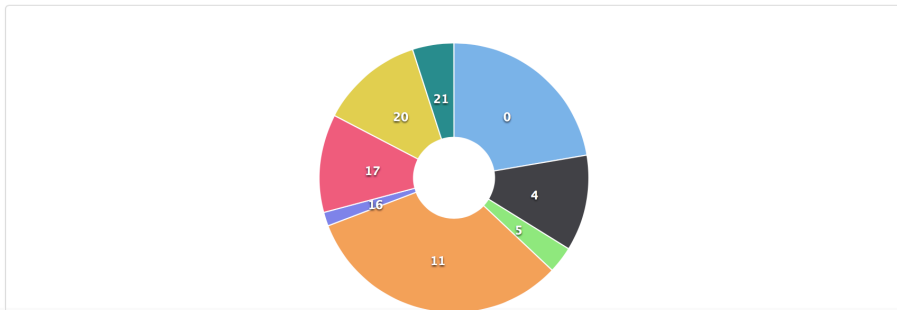
We've also included local and web tools to help you get the most from your receiver.

Here's a quick screenshot of a stats page: (via 127.0.0.1:30053 or IPAddress:30053)

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



or see <https://planefinder.net/sharing/> for a polar diagram and more. Don't forget to assign your receiver to your account to view the private data page.

Feedback & Support

If the client is not working it is worth checking the ports entered and the event log. We might ask you to send the logs to us to help with troubleshooting.

If you have any questions or feedback for us please use our forum at <http://forum.planefinder.net> or contact us via support@pinkfroot.com

Don't forget to ask us for free apps if you can use them!

Thank you for sharing your data with Plane Finder.