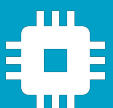
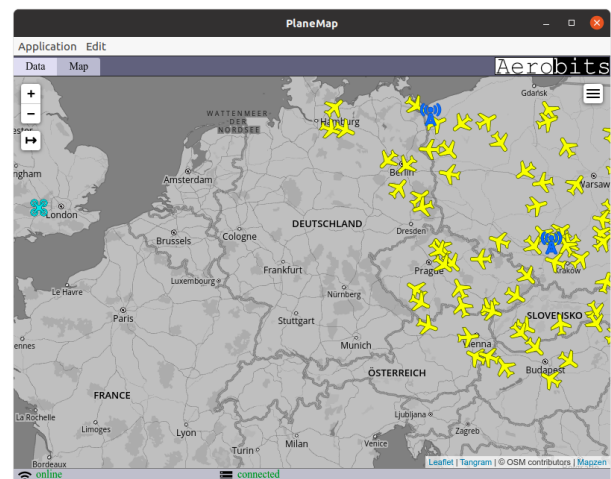




Subsystems for the
UAS intergration into
the airspace

Plane Map Software

Data sheet & User manual



Introduction

PlaneMap is application designed to visualize received data in MQTT protocol. It enables visualization of air traffic around the installed receiver.

Features

- Quick start with the streaming products of AEROBITS company
- Easy air-traffic visualization
- Cross platform
- Visualization of various MQTT streams types
- 2 types of maps (street, terrain)
- Aircraft flight parameters preview
- Messages payload preview

For more information please contact: support@aerobits.pl.

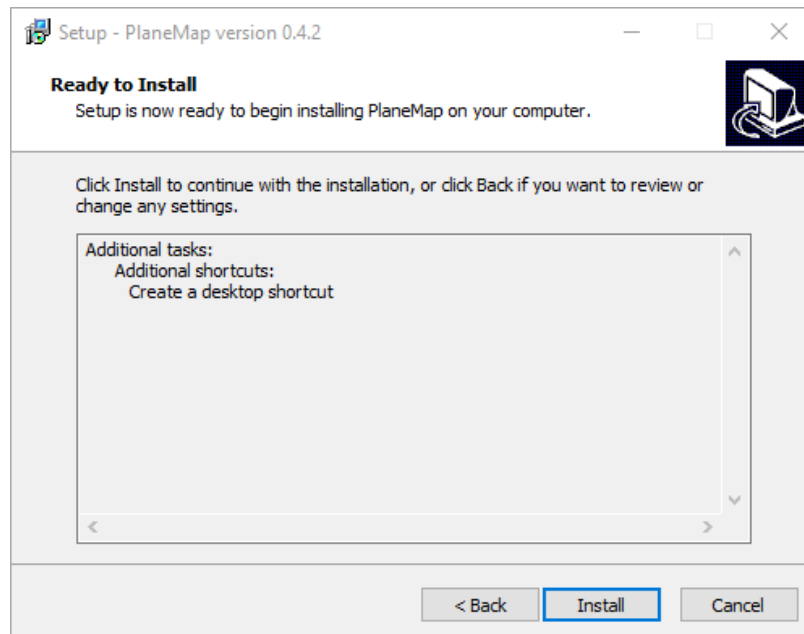
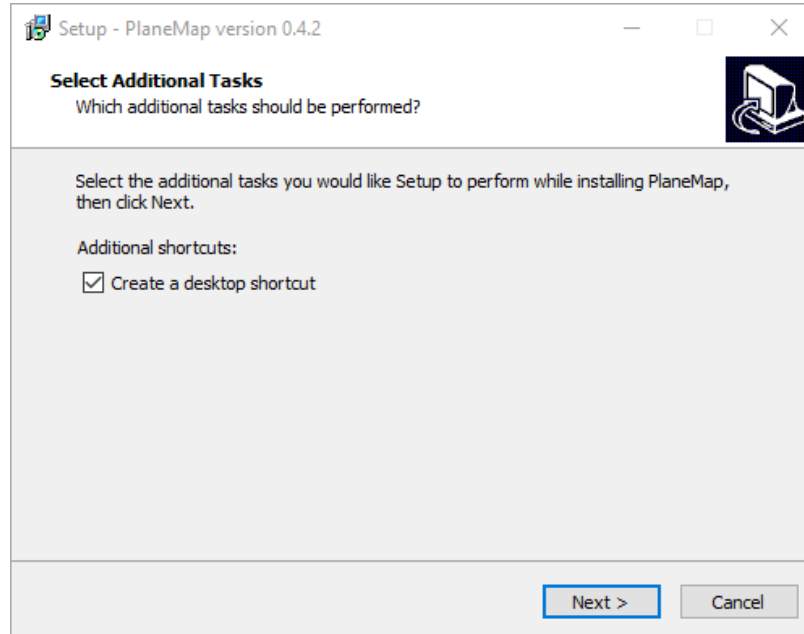
Contents

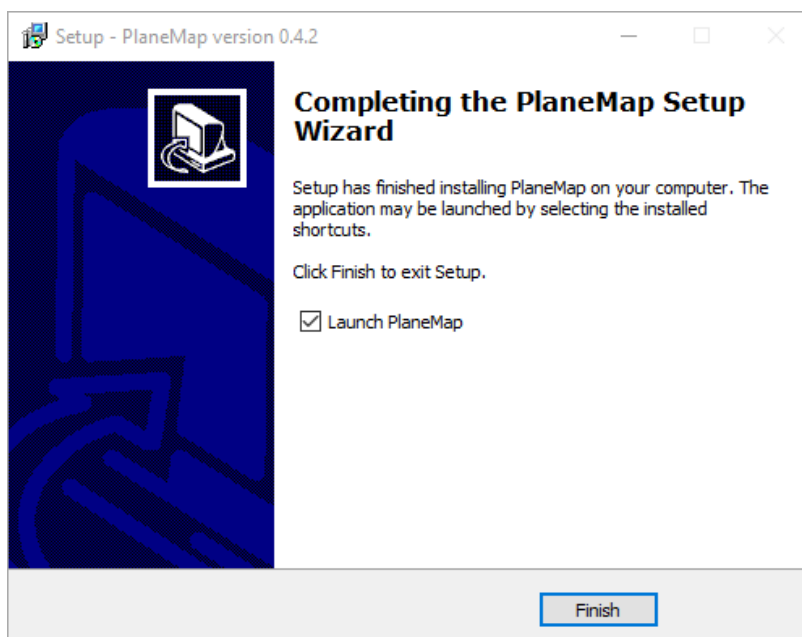
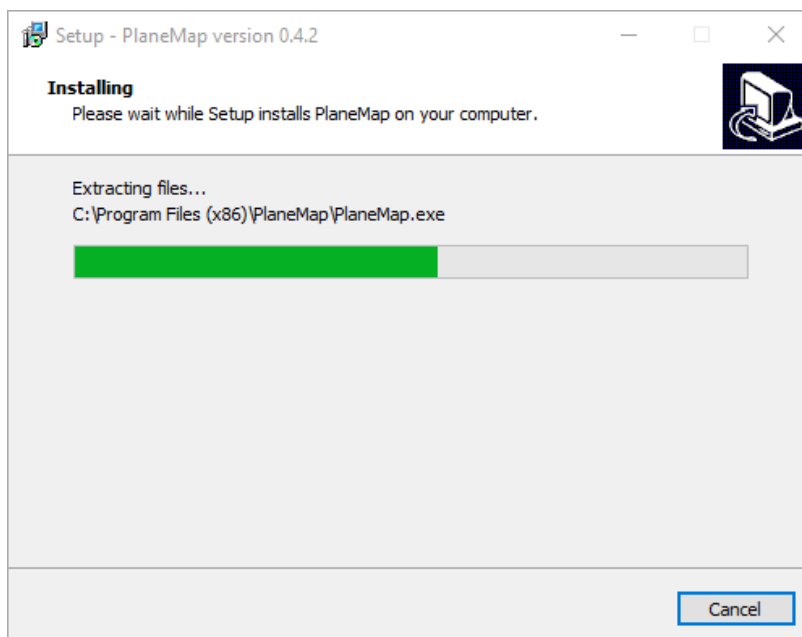
1	Installation	3
1.1	Installation on Windows	3
1.2	Installation on other platforms	4
2	Quick start	5
2.1	Basic functionality	5
2.2	Recording air traffic	7
2.3	Measuring tool	10
3	General information	12
3.1	Problems	12
3.1.1	Connection error	12
3.1.2	No data received	12

1 Installation

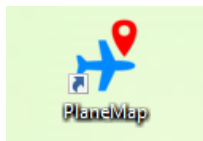
1.1 Installation on Windows

Run the PlaneMap setup.exe file and follow the instructions of the installation wizard.





A blue icon of the plane application should appear on the desktop.



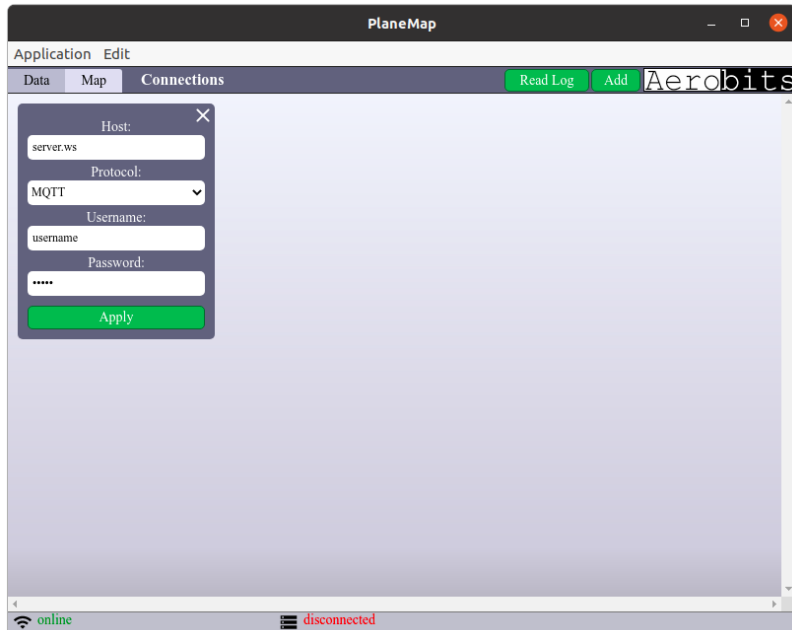
1.2 Installation on other platforms

PlaneMap software is available also on Linux OS. For more information about installer version and to get setup file please contact: support@aerobits.pl.

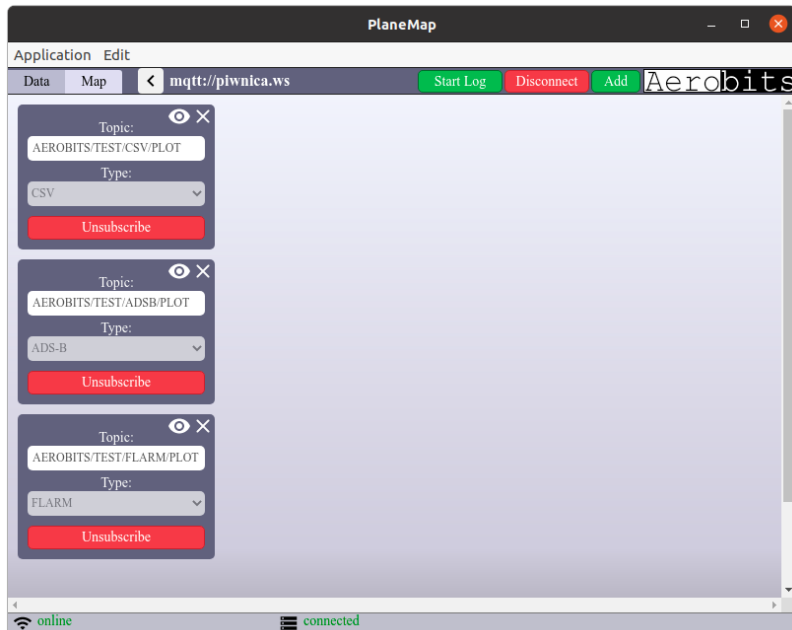
2 Quick start

2.1 Basic functionality

- Launch application and enter server configuration. Make sure that Username and Password are correctly. Go further by clicking green button „Apply”.



- Connect to server, then enter and subscribe all necessary sources of data.



- You can see received data by clicking the „eye” in the field of each source.

PlaneMap

Application Edit

Data Map <mqtt://piwnica.ws> Start Log Disconnect Add Aerobits

AEROBITS/TEST/CSV/PLOT

ProtoVer	MsgType	MsgTime	Uoi	GnssType	Long	Lat	Height	MsgID	UasID	UasSerial	Ac
02	1	05502464	260060027839520	G	14.51966	53.42675	50.20	5780	D-UG1030	23-0001030	0
02	1	05502464	260060027839502	G	19.31249	50.28398	312.40	9211	D-UG0317	23-0000317	-4
02	1	05502464	260060027959516	G	19.31251	50.28403	312.60	9212	D-UG0316	23-0000316	-4
02	1	05502592	260060027959520	G	14.51966	53.42675	50.20	5781	D-UG1030	23-0001030	0
02	1	05502592	260060027839487	G	19.31249	50.28400	313.80	9212	D-UG0315	23-0000315	0
02	1	05502592	260060027959516	G	19.31251	50.28403	312.60	9213	D-UG0316	23-0000316	-4
02	1	05502592	260060027839502	G	19.31249	50.28399	312.40	9212	D-UG0317	23-0000317	-4

AEROBITS/TEST/ADS-B PLOT

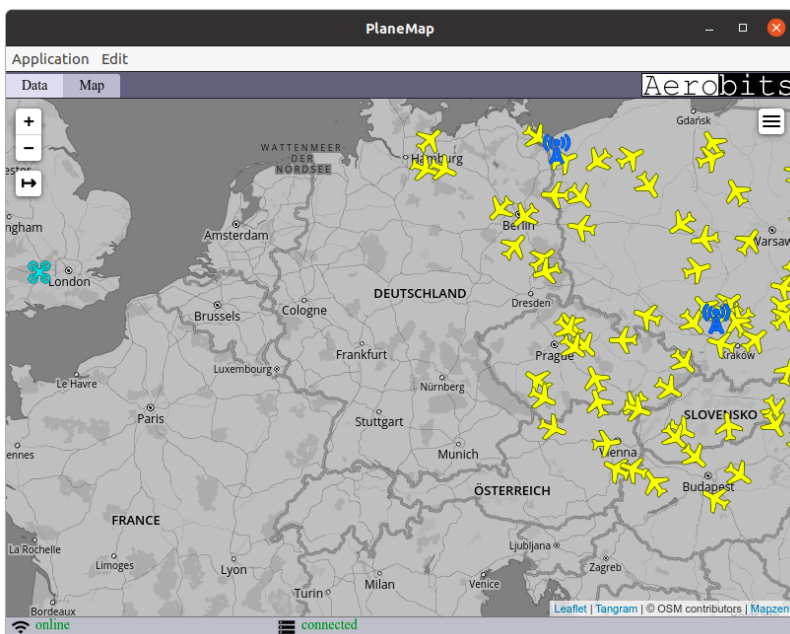
Cat	Sac	Sic	ReportDescriptor	Lat	Lon	Icao	MessageTime	GeometricAlt	Quality	MopsVer	Squawk	Barome
21	0	151	2316	48.594	20.979	40717A	14319104	49	18	4025	410	
21	0	151	2316	49.263	17.751	8960D1	7702800	49	18	0104	390	
21	0	151	2316	51.460	18.597	3C6565	9971240	49	18	4011	350	
21	0	151	2316	47.927	18.564	407182	14319105	49	18	2720	410	
21	0	151	2316	50.095	19.545	3C56F3	7702775	17	18	0512	740	
21	0	151	2316	48.139	21.764	5100FA	7702785	49	18	0658	350	
21	0	151	2316	52.093	19.103	471F32	14318999	17	18	2733	290	

AEROBITS/TEST/FLARM/PLOT

Cat	Sac	Sic	ReportDescriptor	Lat	Lon	FlarmID	MessageTime	GeometricAlt	Quality	MopsVer	BarometricAlt
-----	-----	-----	------------------	-----	-----	---------	-------------	--------------	---------	---------	---------------

online connected

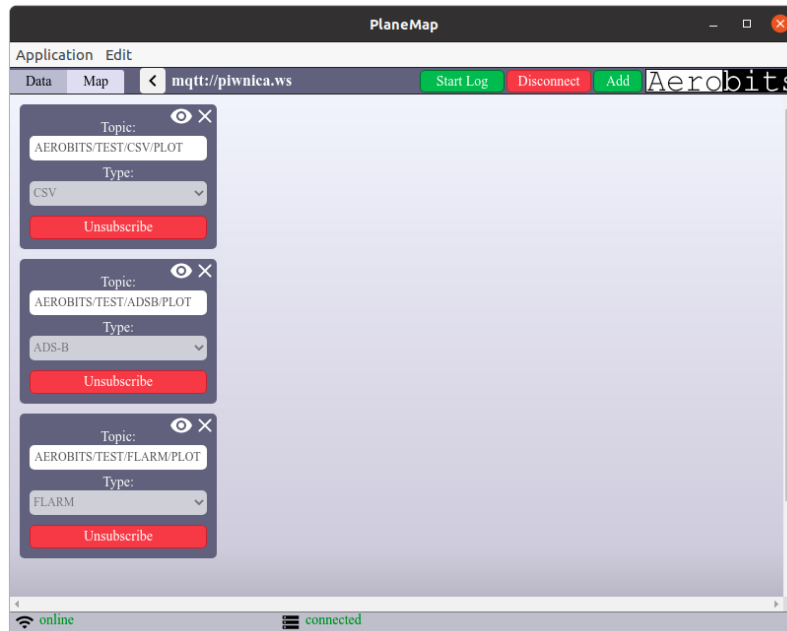
- Air traffic visualization is available on map when server is connected and receiving data.



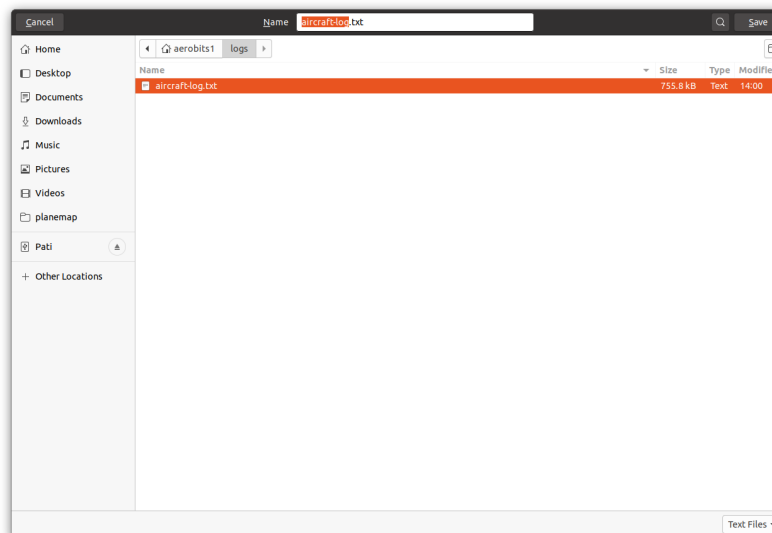
2.2 Recording air traffic

Logging data to file

- Connect to the server as written above.



- Click the green button „Start Log” and choose the file you want to store the data in.



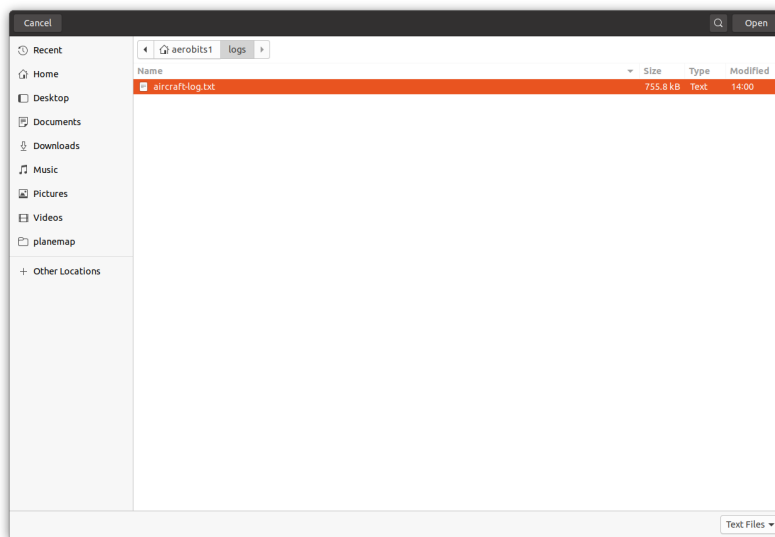
- When you want to stop recording the data, click the red button „Stop Log”.

Displaying data from file

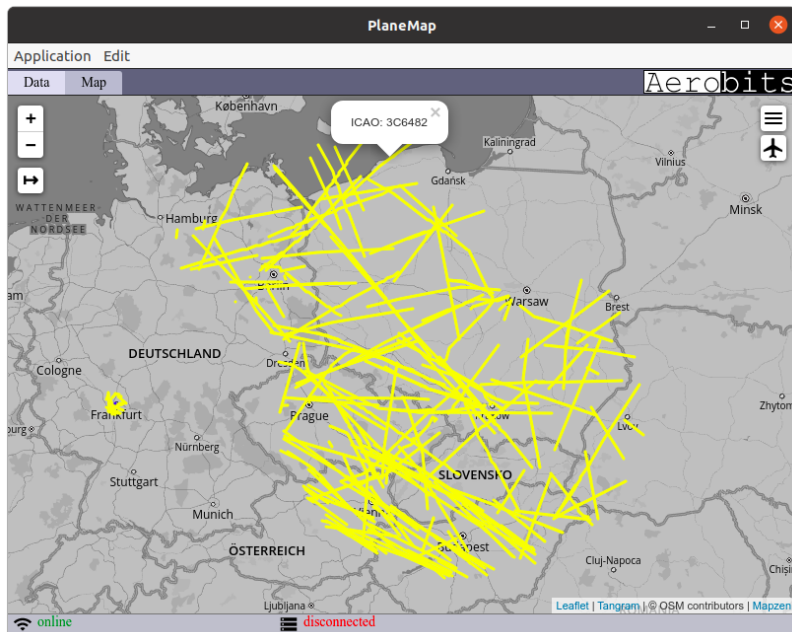
- Disconnect from the server.



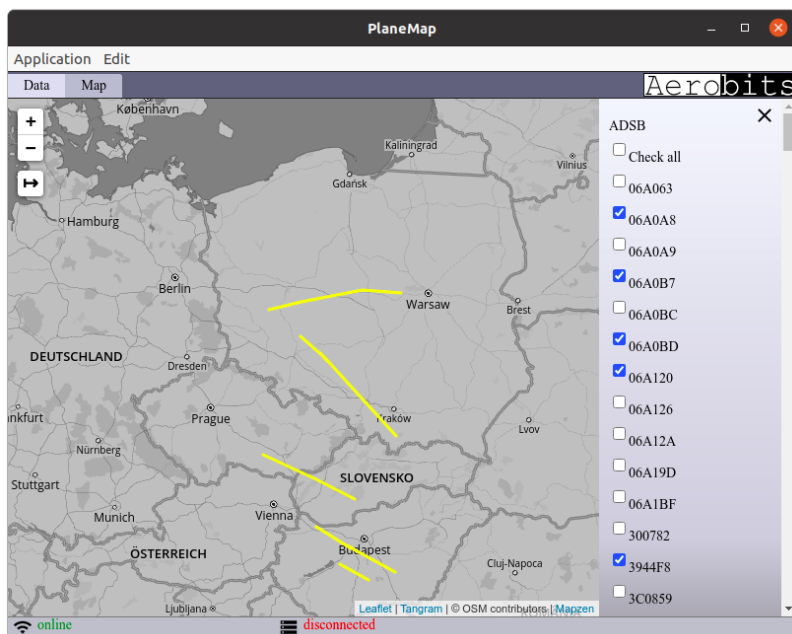
- Click the green button „Read Log” and choose the file to read from. Loading the file may take a while, depending on its size.



- Paths of the aircraft are displayed on the map.

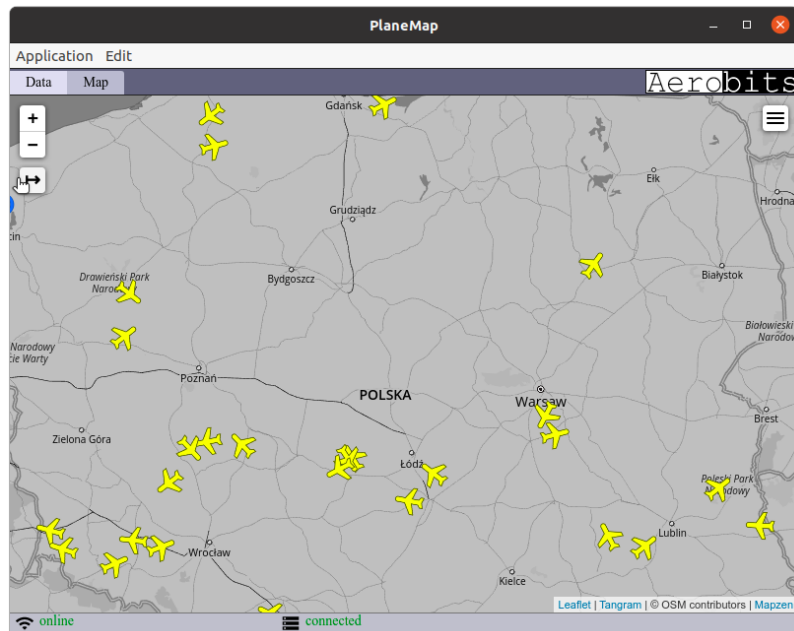


- Click the button with the plane icon in the top right corner to open the list of aircraft. Click on the checkboxes to turn the aircraft paths on and off.

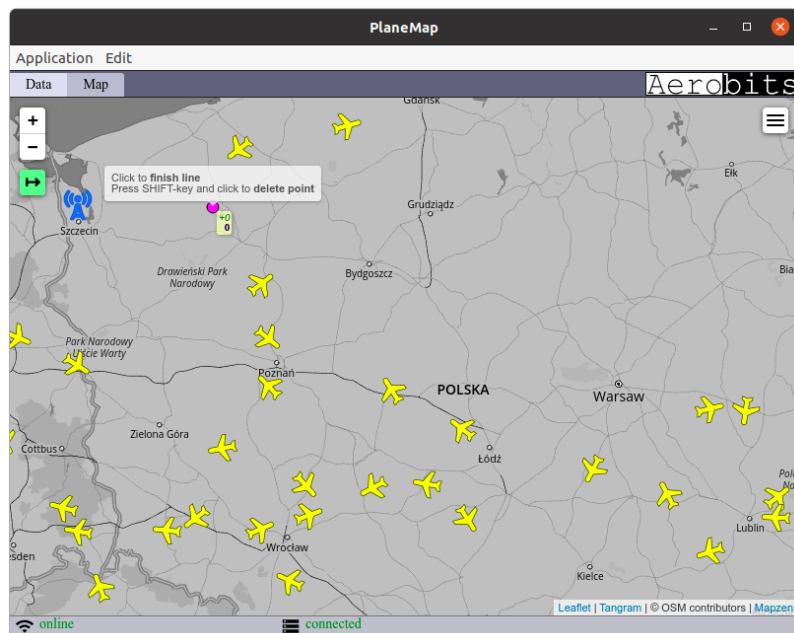


2.3 Measuring tool

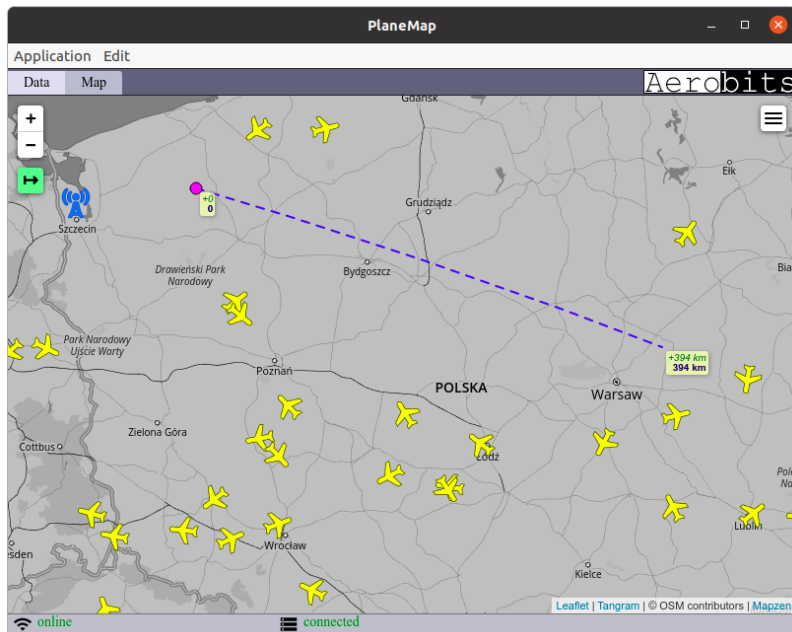
- Click the "Measuring Tool" button in the top left corner.



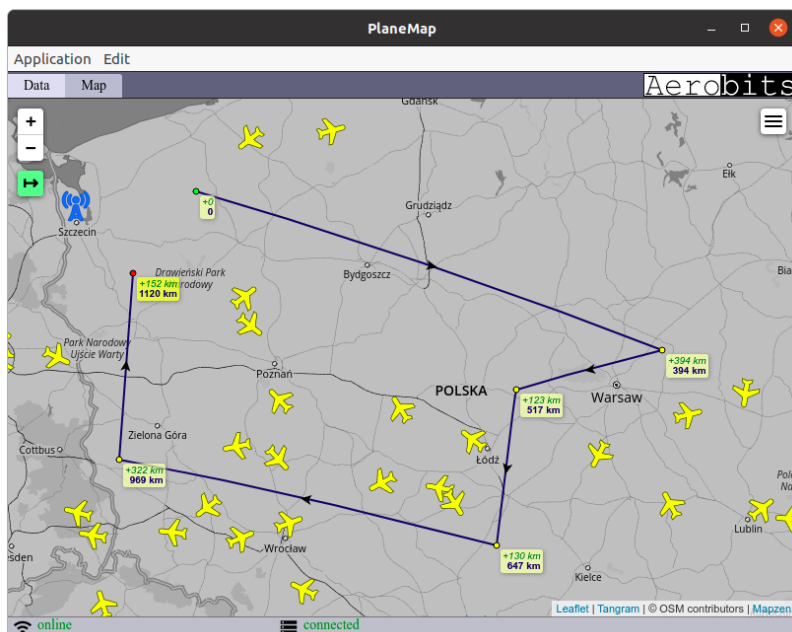
- Click on the first point.



- Move the mouse to the second point and click.



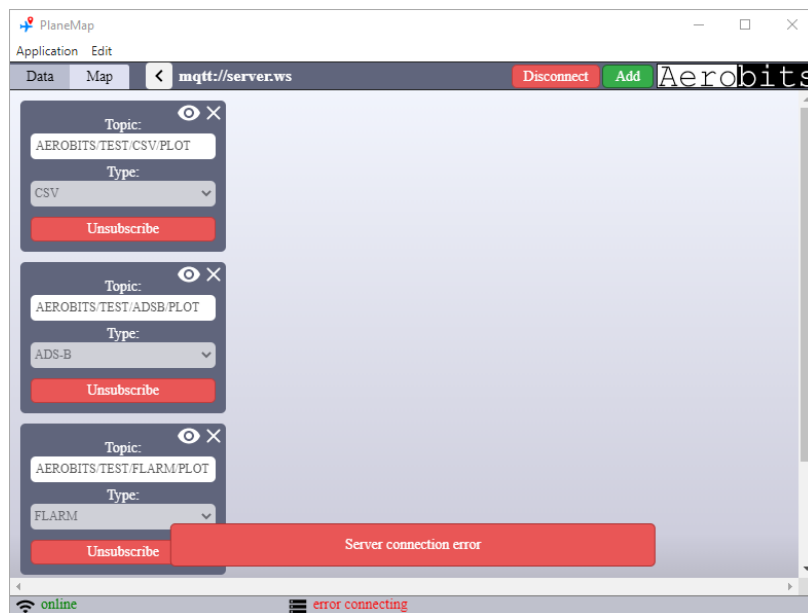
- Draw the line to as many points as you need. Click on the last point twice to finish the line.



3 General information

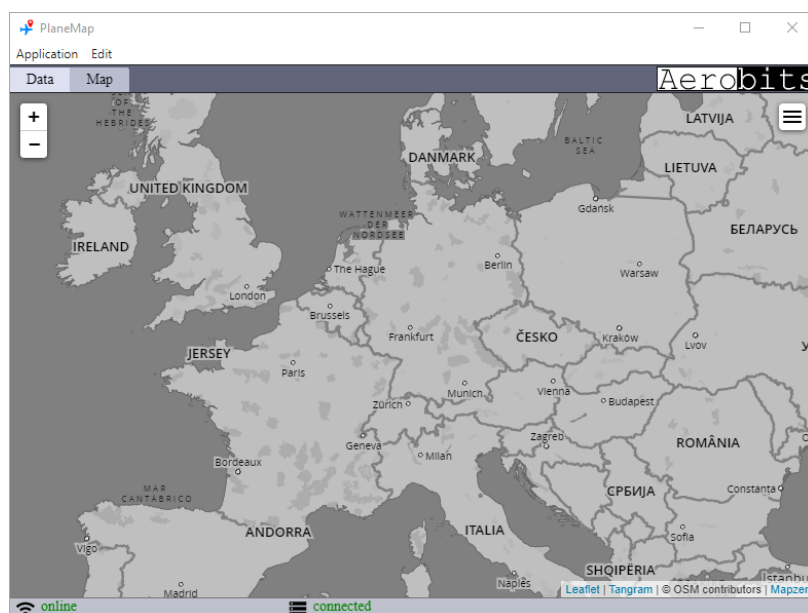
3.1 Problems

3.1.1 Connection error



- Check internet connection and server name.
- Make sure you choose right protocol.
- Username or password might be wrong.

3.1.2 No data received



- Check server connection.

- Make sure you subscribe all needed types of receiving data.

Please read carefully

Information contained in this document is provided solely in connection with Aerobits products. Aerobits reserves the right to make changes, corrections, modifications or improvements to this document, and to products and services described herein at any time, without notice. All Aerobits products are sold pursuant to our own terms and conditions of sale. Buyers are solely responsible for the choice, selection and use of the Aerobits products and services described herein, and Aerobits assumes no liability whatsoever, related to the choice, selection or use of Aerobits products and services described herein. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services, it shall not be deemed a license granted by Aerobits for use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering use, in any manner whatsoever, of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN AEROBITS TERMS AND CONDITIONS OF SALE, AEROBITS DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO USE AND/OR SALE OF AEROBITS PRODUCTS INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED AEROBITS REPRESENTATIVE, AEROBITS PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE.

Information in this document supersedes and replaces all previously supplied information.

© 2023 Aerobits - All rights reserved