

How to setup a working UDP connection between two PC's (X-Plane V11).

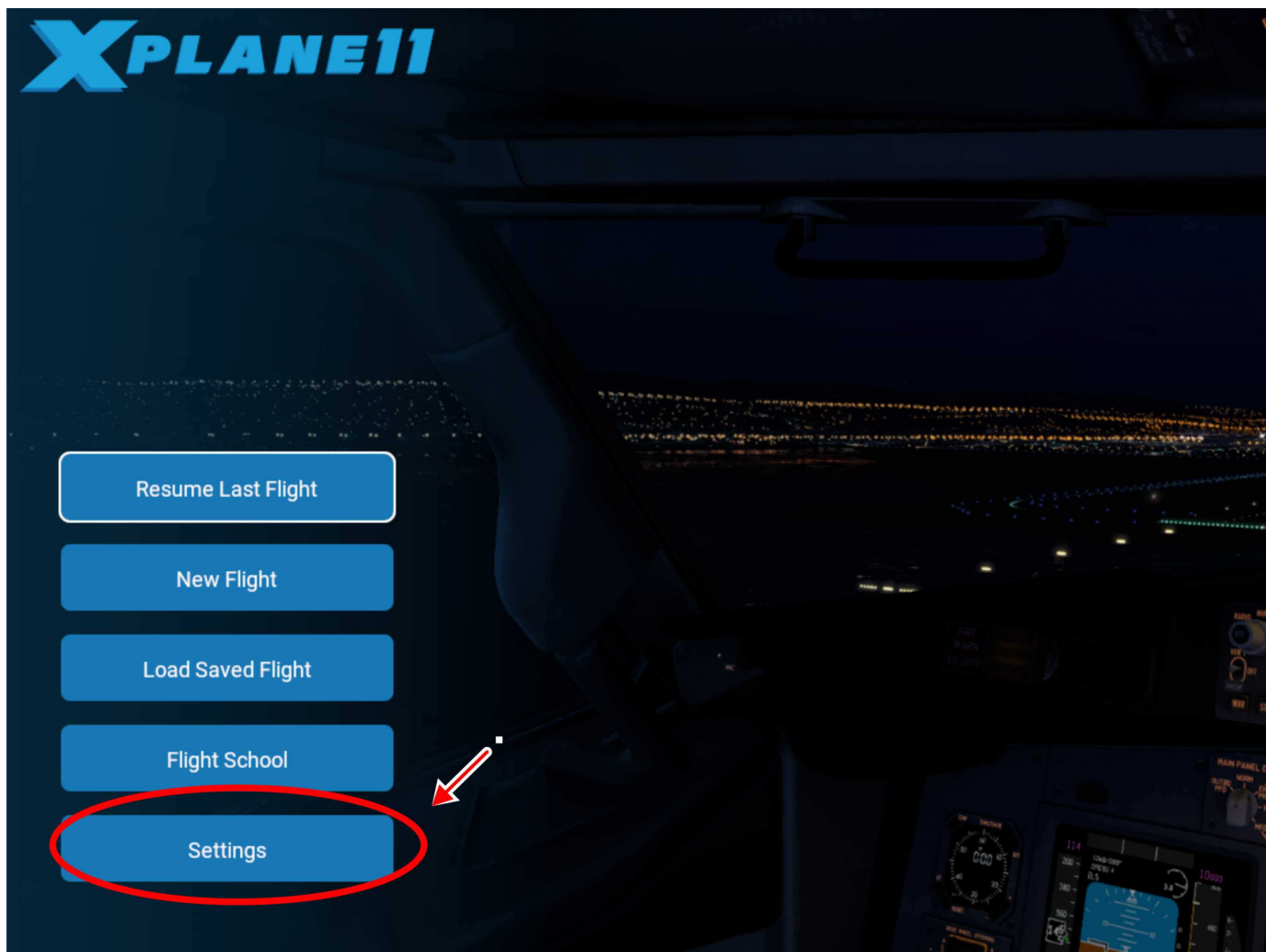
The UDP connection to the Flight Illusion Control program requires matching settings on both the X-Plane side and the Control Program side.

On the X-plane side it is necessary to define the IP address and the sending and receiving Port numbers.

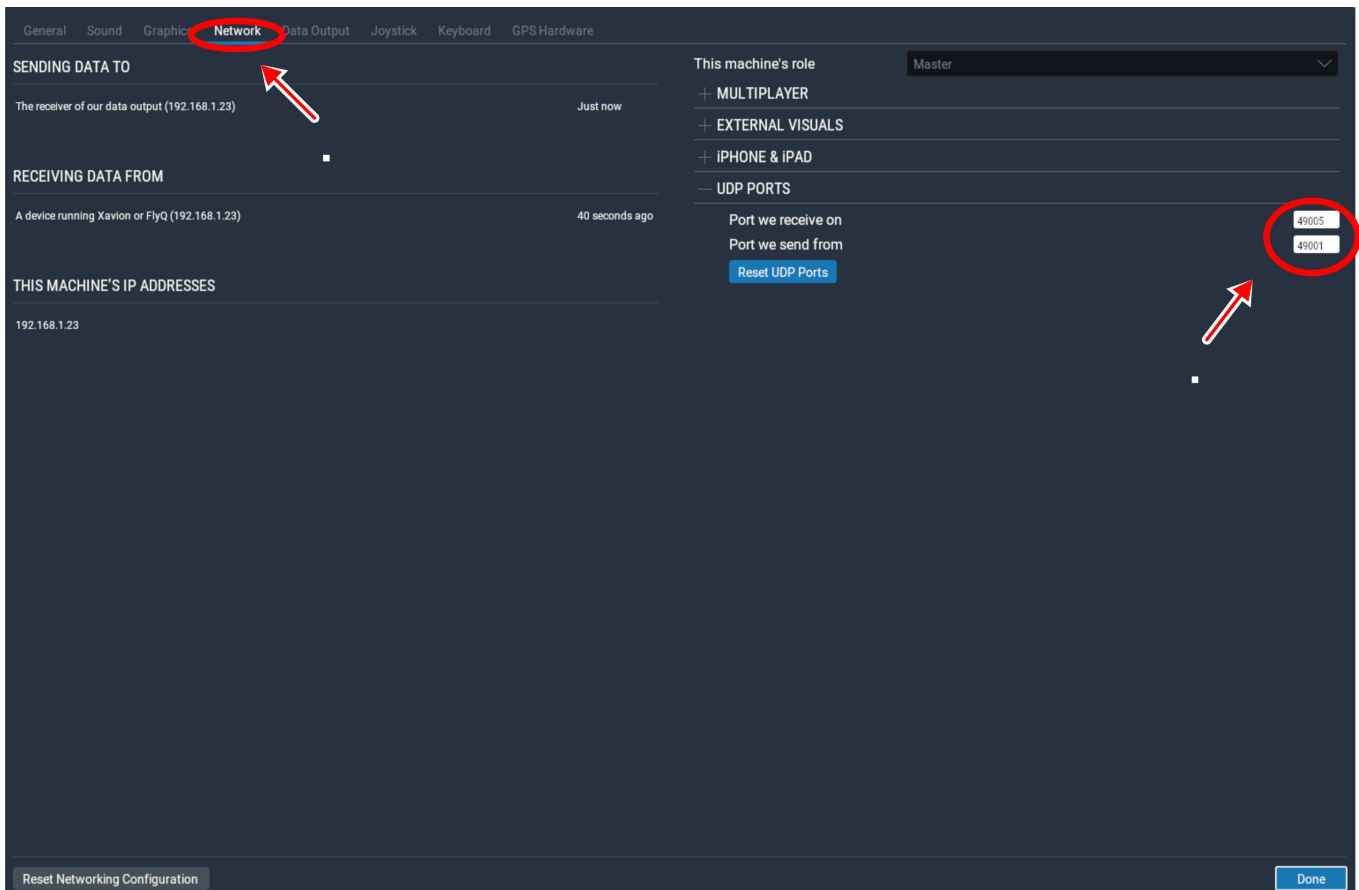
To do so on X-Plane Version 11.xxx execute the following steps:

First, start X-Plane and take a drink waiting for the start-up ☺.

Choose for “Settings”:



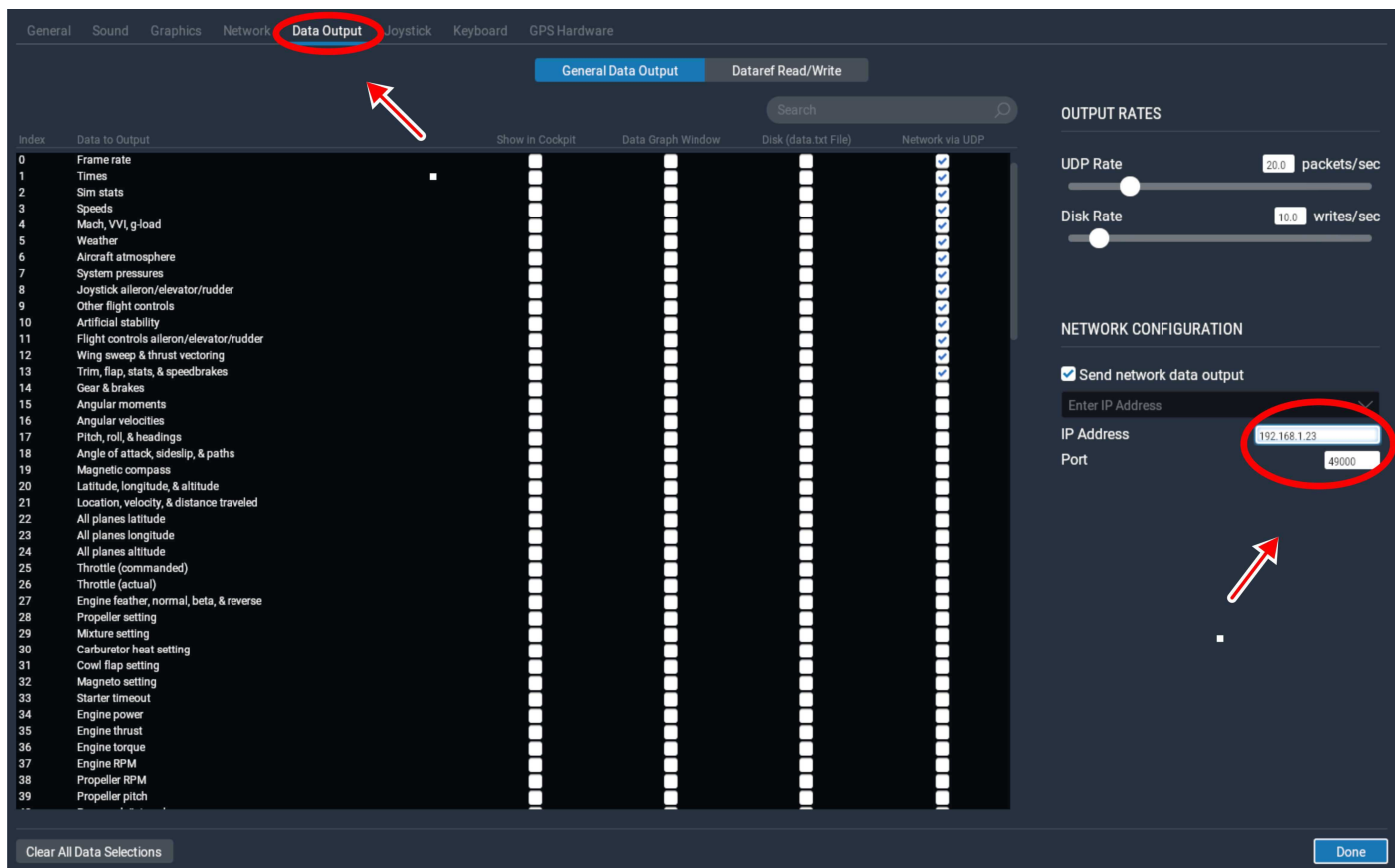
Choose for “Network” and fill in the UDP ports to use:



Port we receive on: 49005, Port we sent from: 49001

Choose “Data Output” and define the IP address of the computer which runs GSTEP:

(Note: The IP- address of the remote computer depends on your network!; In this example it is 192.168.1.23) of the remote computer (on the same sub-net!) and the used port as shown:



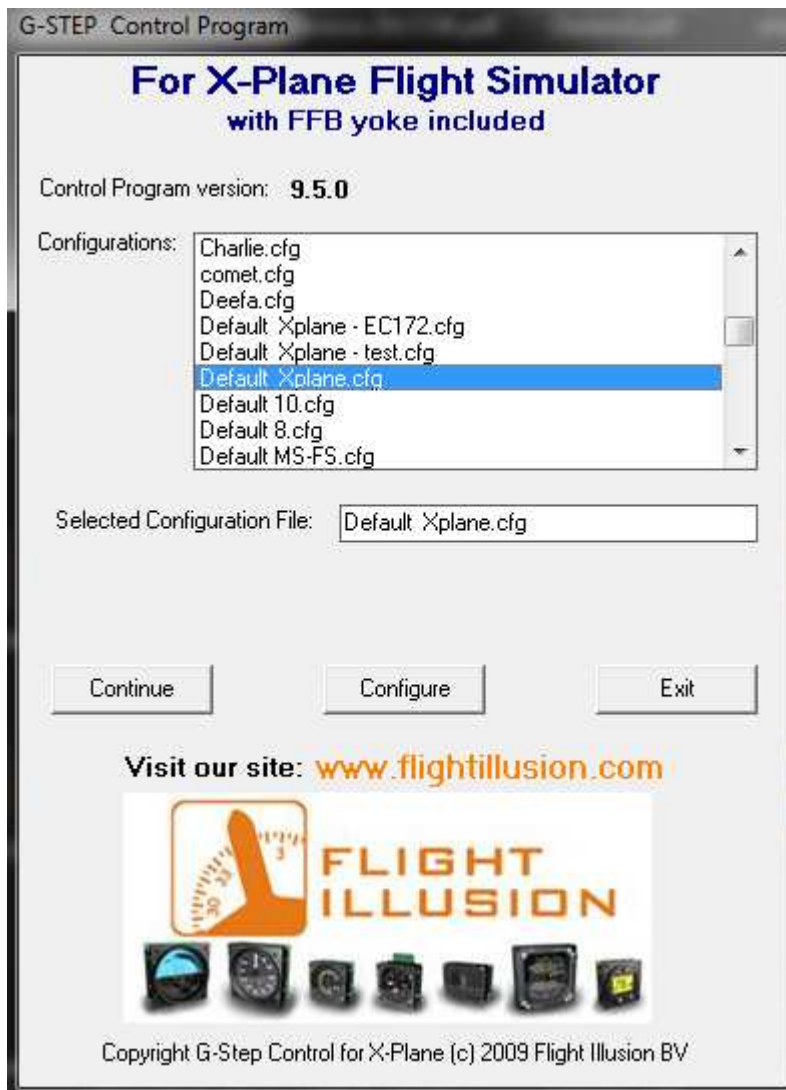
IP address: 192.168.1.23 (IP address of the machine with GSTEP running. (This could also be the same machine as X-plane runs!))
 Port = 49000

X-plane sends in this case the selected Data References to the Control Program PC, Port 49000.

Data and commands from the Control Program are sent to X-Plane PC on port 49005.

Now X-Plane is configured and the other side (the Control Program) must be configured accordingly

On the remote computer start the Control software and click on “configure”:



Set the IP-address of the X-Plane computer and the used port numbers: *(again: this could be the same machine!)*

G-Step Configuration

Current Configuraton

ID	Device Type	Model	Version	First Function	Second Function	Connection Status
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Search Progress: -> 250

Configure and Test Stand Alone Units

Communication Settings (ComPort)

	Current	Set to:
G-Step Control Unit :	3	0
Engine Cluster:	6	0
Stand Alone IO Mod. 1:	0	0
Stand Alone IO Mod. 2:	0	0

X-Plane Communication

Remote IP: 192.168.1.23 Port: 49005

Byte Order: ☒ Normal ☐ Reverse Local Port: 49000

☒ No USEL

Current Configuration File

Default Xplane.cfg

Generic Settings

Gauge Lights Switch: Nav. lights switch Process Interval: 34

Actions

Click on SET and Save / Load to save the configuration.

If you have changed something in X-Plane you must shut- down X-Plane and restart it.

This should do the job.

To test this configuration you can click “Test Interface XP” in the screen above and you will see the following screen:

Test Xplane UDP communication

UDP IP and Port settings

Remote IP: Remote Port:

Local Port:

Byte Order
☒ Normal ☐ Reverse

Running

Start UDP

Stop UDP

Send Data to Xplane via UDP

Index	Val#	Data
57	0	<input type="text" value="1"/>

View Transmitted data in box below

Send Data (float) dsel Send Data (integer) use1 send character

Control Commands

Clear rawdata Clear Converted data Close

Raw Data Received

```

68 68 84 65 42 0 0 0
215 136 18 66 211 220 20
80 0 192 121 196 161 158
223 60 93 214 219 60 131
233 88 60 0 0 128 63 0 0
0 0 1 0 0 0 48 37 166 68
63 248 79 67 63 248 79 67
0 0 0 0 0 192 121 196 119
144 65 65 119 144 81 65
146 159 108 61 2 0 0 0 0
0 16 66 0 0 16 66 88 166
140 73 0 192 121 196 0
192 121 196 0 192 121 196
0 192 121 196 0 192 121
196 3 0 0 0 9 0 0 0 171
29 120 57 80 18 120 57 73
18 120 57 0 192 121 196
10 0 0 0 226 188 142 57
226 188 142 57 4 0 0 0
218 5 192 52 0 192 121
196 42 181 43 57 0 192
121 196 128 228 127 63
193 249 180 60 131 220
134 186 0 192 121 196 5 0
0 0 41 92 239 65 0 0 112
65 0 192 121 196 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0
0 0 0 6 0 0 0 235 107 239
        
```

Converted Data Received

Index: 0

V 0: 36.63363

V 1: 9.99E+09

V 2: -999

V 3: 2.729732E-02

V 4: 2.683561E-02

V 5: 1.323927E-02

V 6: 1

V 7: 0

Index: 1

V 0: 1329.162

V 1: 207.9697

V 2: 207.9697

V 3: 0

V 4: -999

V 5: 12.09777

V 6: 13.09777

V 7: 5.776937E-02

Index: 2

V 0: 36

V 1: 36

V 2: 1152203

V 3: -999

V 4: -999

V 5: -999

V 6: -999

If Start UDP is selected the right part of the screen should show the received dataflow between X-Plane and GSTEP. When this part of the screen is empty there is something wrong! (Maybe Firewall?)

This test the communication From X-plane to GSTEP, The data path from GSTEP to X-plane is also important and can be test also in this section of GSTEP. To do this you can use the section “Sent data to X-plane via UDP” and this example in the screen will let you switch on the Battery switch when click “Send Data” . If Data is changed from 1 to 0 and you sent it again it will switch off the Battery switch (of course ☺).

This manual only describes the configuration of the UDP connection, not the configuration of the gauges or the USB settings!