



# INSTALLATION GUIDE V2

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## Introduction

Dear reader and fellow aviation enthusiast, thank you for your interest in the Remote CDU software. I, the author of this guide, have written this guide to provide you with detailed instructions on how to get it working on your pc and tablet. This was my first public software release and I designed it both to make life easier but also out of a passion for software engineering and aviation.

I strongly advise you to follow this guide to see if you are satisfied before purchasing the premium version. The free version has the buttons on the main CDU screen disabled, everything else works (including the 'buttons only' mode, check it out).

Please be aware that I wish this guide could be simpler but FSX, PMDG and the app need to talk to each other via a WiFi network. We need to setup some parameters to let this happen. You can imagine that by default this would not be possible. I have made an installer that should do most of the work for you but if something fails for whatever reason than you will have to follow the entire guide.

Please send me an email at [info@stellarteq.com](mailto:info@stellarteq.com) if you are stuck, I'm happy to help.

This software requires FSX SP1 or above.

Known issues:

- After using 'End Flight' and then loading a flight the CDU doesn't update. This is a simulator (SimConnect) issue that I wish I could find a workaround for.
- Virus scanners might give a warning about CDU\_IO.exe as it will behave suspicious, this is because of broadcast (local only) network activity to provide auto IP address configuration.

## Installing interface software

Run the Installer (you may need to install Microsoft Visual C++ 2008 Redistributable Package (x86) if you don't have it installed), you can find it at:

<https://www.microsoft.com/en-us/download/details.aspx?id=29>

When successful it will show:

```
Step 1 completed
Step 2 completed
Step 3 completed
Step 4 completed
Step 5 initiated
Done
```

**If for whatever reason one or more steps fail follow the (missing) steps detailed below.**

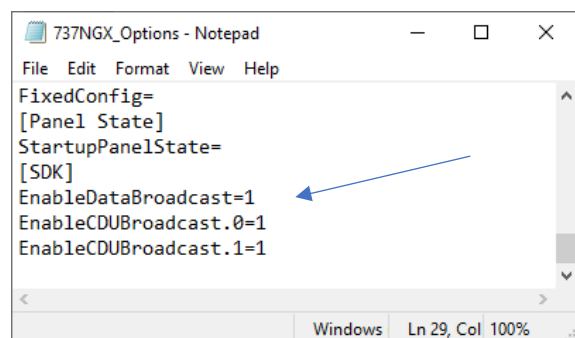
The interface is implemented by software that provides the communication between Flight Simulator and the App. To enable communication with the simulator Microsoft has provided a program called SimConnect which allows us to interface with the PMDG aircraft(s) as well as any other object within FSX. Over time, multiple SimConnect versions have been released. It is however possible to install multiple versions. Please follow the following steps to get started.

1. PMDG has a file that contains settings that enables communication with the CDU's. Edit the file named 737NGX\_Options.ini using notepad and paste the lines in Textbox 2 at the bottom of the file before saving. The result should look like Figure 1. The file can be found in your FSX installation location, for example:

```
FSX:SE C:\Program Files (x86)\Steam\steamapps\common\FSX\PMDG\PMDG 737 NGX
FSX C:\Program Files (x86)\Microsoft Games\Microsoft Flight Simulator X\PMDG\PMDG 737 NGX
```

```
[SDK]
EnableDataBroadcast=1
EnableCDUBroadcast.0=1
EnableCDUBroadcast.1=1
```

*Textbox 1. Copy these lines for PMDG*



*Figure 1. PMDG options file*

2. Copy the folder 'Remote CDU', located in 'Client', and its contents to the FSX installation folder.
  - CDU\_IO\_Vxxx.exe is the program that interfaces between FSX and the App via Wi-Fi.
  - UsePort.txt can be used to edit the default network port whenever connection problems occur (other programs might use the same port). Chose any other value from 8000 to 65535 which does not include 50001. Port 50001 is used as broadcast port to enable auto configuration.
3. Rename CDU\_IO\_Vxxx.exe to CDU\_IO.exe
  - Updates will change the version number and therefore naming, which will cause problems during the next step where we point FSX to CDU\_IO
4. An exe.xml file in C:\Users\{username}\AppData\Roaming\Microsoft\FSX will tell FSX which programs to load upon start-up. If not present, copy the provided exe.xml as template. Copy the text from Textbox 3 and paste it behind the previous </Launch.Addon>. Edit the <PATH> to reflect your file location. The result should look like Figure 2, but might include more lines if other addons have been installed.

```
<Launch.Addon>
  <Disabled>False</Disabled>
  <ManualLoad>False</ManualLoad>
  <Name>CDU_IO</Name>
  <Path>[Your installation file path]</Path>
  <CommandLine></CommandLine>
  <NewConsole>True</NewConsole>
</Launch.Addon>
```

Textbox 2. Startup config

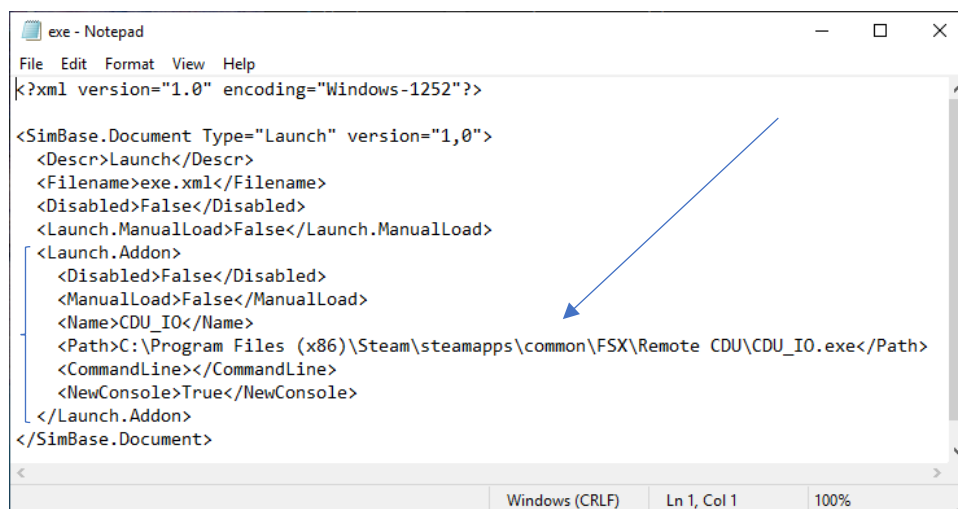


Figure 2. exe.xml

5. Please run SimConnect.msi. A copy has been provided with this setup guide.

## App setup

The Remote CDU DEMO/PRO app can be downloaded from the Google Play Store. Installation and setup is straightforward and almost self-explanatory but I would like to highlight some key points:

For smaller devices like phones a buttons only function is added, you can toggle between both screens by pressing the slider button with the “Buttons only” text.

The connection port and IP are broadcasted by the CDU\_IO client whenever there is no connection established, which the app will be listening for. This works as auto configuration and should result in a filled in port and IP address. There are several limitations that could cause autoconfigure to fail, such as:

- No connection between the App and the client (no Wi-Fi/network connection)
- Your network does not support broadcasting
- FSX not running

If your IP and port are not automatically found, use 50000 as port and lookup your IP by running cmd (windows key, type “cmd”, enter) and type in “ipconfig” and press enter. Note the one behind IPv4 (possibly something like “192.168.0.xxx”)