MSFS Mobile Companion App

MSFS Mobile Companion App is a tool that allows you to control essential aircraft instruments such as NAV/COM frequencies, autopilot, or lights using almost any mobile device, notebook or PC. The MSFS Mobile Companion App is free to use.

1 Running the MSFS Mobile Companion App

Don't install the app on your mobile device. Download and run it on your PC. This creates a local web server to which you connect from your mobile device via an IP address.

1. Copy the **mobiflight-event-module** folder into the Community folder of Microsoft Flight Simulator. The MobiFlight WASM Module allows the app to access additional cockpit switches. You will find the Community folder under:
    a. MS Store users:
    C:\Users\YOURUSERNAME\AppData\Local\Packages\Microsoft.FlightSimulator_8wekyb3d8bbwe\LocalCache\Packages
    b. Steam users:
    C:\Users\YOURUSERNAME*AppData\Roaming\Microsoft Flight Simulator\Packages*

2. Open the ***settings.txt*** file, that you've unzipped together with the *MSFS_MCA_v1-9-1.exe* and this guide, and change the last line to reflect your Microsoft Flight Simulator installation folder. This step is only necessary if you wish to use the *Load Flight Plan* functionality. Hint:
    a. MS Store users:
    C:\Users\YOURUSERNAME\AppData\Local\Packages\Microsoft.FlightSimulator_8wekyb3d8bbwe
    b. Steam users:
    C:\Users\YOURUSERNAME*AppData\Roaming\Microsoft Flight Simulator*
    Notice: The path in your setting.txt file doesn't point towards the community folder, but towards the installed game location.

3. Make sure your PC and your mobile device are connected to the same local network and that your **home network is set to Private** in your Network Profile settings. You can find a short guide on how to set your network to private here.

4. Launch Microsoft Flight Simulator and wait until the main menu is loaded.

5. Run *MSFS_MCA_v1-9-1.exe* that you've unzipped previously. You can place this file where you wish. Just make sure that the *MSFS_MCA_v1-9-1.exe* and the *settings.txt* file are in the same folder.

6. A Microsoft Defender security window may open when launching *MSFS_MCA_v1-9-1.exe* for the first time. Allow the "unrecognized app" to run. Additionally, a Windows Security Alert Window may open when you launch *MSFS_MCA_v1-9-1.exe* for the first time. Allow private network access for *MSFS_MCA_v1-9-1.exe* in the Windows Security Alert Window.

7. A command-line window will open that will show you the **IP-address** where you can access the MSFS Mobile Companion App. Don't close the command line window.

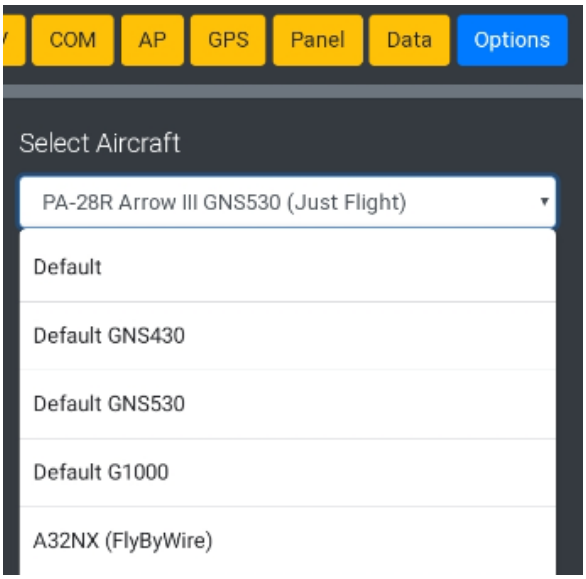
8. **Open the IP-address in your mobile device's web browser.** The IP address will most likely be something like 192.168.0.XXX:4000.

Notice: You can launch MSFS Mobile Companion App directly from your PC's browser. In that case, just type in localhost:4000 in your browser's url bar.

2 Using the MSFS Mobile Companion App

Most features of the MSFS Mobile Companion App should be self-explanatory and easy to use. Below are some tips and hidden features explained in more detail.

2.1 Aircraft Profiles

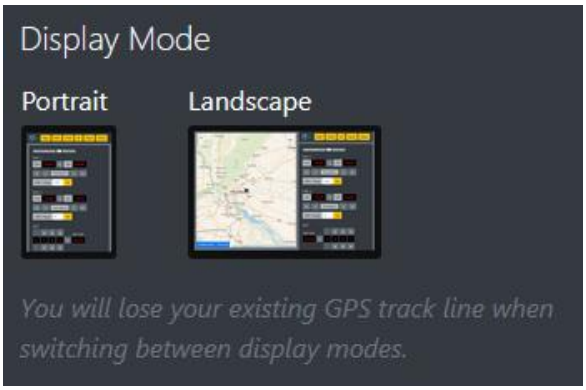


You can select your aircraft controls profile in the Options tab. Use the Default profiles for default MSFS planes and third-party planes which don't have a dedicated profile. Currently, the following third-party planes have a dedicated controls profile:

- A320 (Asobo)
- A32NX v0.7.1 stable and development (FlyByWire)
- CRJ-550/700 (Aerosoft)
- DC-6 (PMDG)
- FG-1D Corsair (MilViz)
- Ju-52 classic and retrofit (Asobo)
- Long-EZ (IndiaFoxtEcho)
- MB-339 (IndiaFoxtEcho)
- PA-28R Arrow III (Just flight)

Additional planes will be added in future releases.

2.2 Display Modes



There are two display options to choose from in the Other tab:

- portrait and
- landscape.

Portrait mode is designed for mobile phones and tablets in portrait mode. Landscape mode is optimized for larger mobile devices in landscape mode and PC monitors.

2.3 Map Style

You can change the map style by clicking on the icon in the upper right corner. There are 5 map styles to choose from: Default (Stadia maps), Topo, Pale, Open Street and Dark.

The *Aviation* overlay will display air spaces, airports, VORs and NDBs on the map.

2.4 Load Flight Plan

You can activate your active flight plan on the map by clicking on the ***Load Flight Plan*** button in the lower left corner. This will display all the waypoints of the flight plan that you've set-up in the World Map menu in Microsoft Flight Simulator. Make sure you've typed in your correct MSFS installation path in the ***settings.txt*** file.

The solid magenta line represents the flight plant and the dashed violet line represents the direct path to the next waypoint as per GPS.

Tip: You can use the ***Load Flight Plan*** button to display the direct path to your next waypoint as per GPS **without** using a flight plan in the sim.

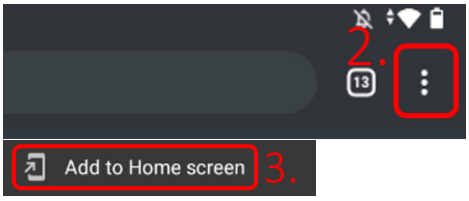
Notice: Changes made in the flight plan during a flight (using GPS or FMS) will not be reflected in the MSFS Mobile Companion App. Currently, only waypoints of the flight plan are shown on the map. Arrival and departure procedures like DME arcs, glideslope intercepts, etc. are not supported.

2.5 Add to Home Screen on Android and iOS

It's recommended to add the MSFS Mobile Companion App's IP-address you've opened in your browser to your home screen on Android or iOS. The main advantage is that you'll get a shortcut/icon of the app on your home screen and the **app will run in full-screen mode on your mobile device**. This built-in Android and iOS feature will basically turn the MSFS Mobile Companion website into an app.

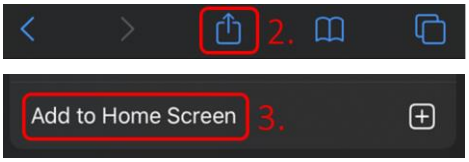
How to add the MSFS Mobile Companion App to your home screen:

Android



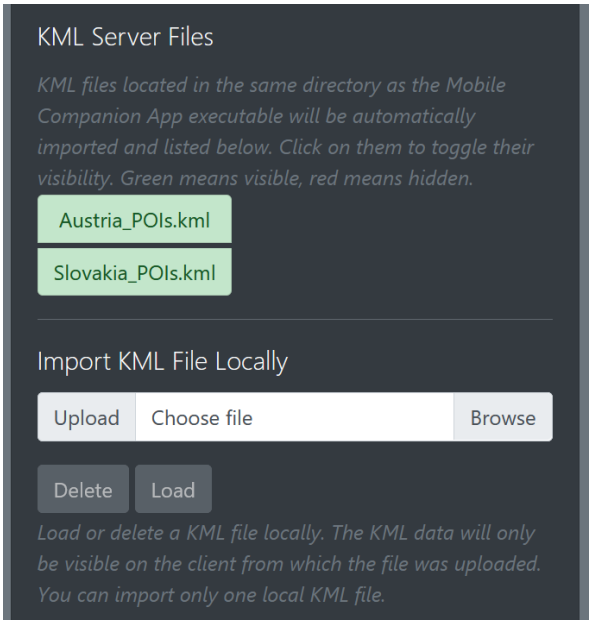
1. Open the MSFS Mobile Companion App's IP-address in Chrome.
2. Tap the *Options* button.
3. Select the *Add to Home Screen* option.

iOS



1. Open the MSFS Mobile Companion App's IP-address in Safari.
2. Tap the *Share* button.
3. Select the *Add to Home Screen* option.

2.6 Load Custom KML Files



There are two ways to load custom KML files with the MSFS Mobile Companion App:

1. **Placing KML files in the same folder as the MSFS_MCA_v1-9-1.exe file (server-side)**
   You can place multiple KML files into the folder and the app will load them automatically. KML files will be visible on all devices. You can toggle individual KML files on or off in the *Options* tab.

2. **Loading a single KML file via the built-in load buttons (client-side)**
   You can load a single KML file in the *Options* tab. The KML will be visible only on the device/browser from which the file was loaded.

3 Known issues

- Tuning NAV frequencies on the CRJ will only work if the two radio tuning units (RTU) are in their default state e.g., no sub-menu selected, NAV1 selected on the left RTU and NAV2 selected on the right RTU.
- Changes to COM frequencies in the A320 will not be shown in the cockpit but will work nevertheless. To force an update of the frequency in the cockpit switch from VHF1 to VHF2 and then back to VHF1 (this is for COM1 frequencies).
- When using the Load Flight Plan button without having a waypoint programmed in your plane's GPS, you might see a dashed violet line pointing towards 0,0 GPS coordinates or to your last GPS waypoint from your previous flight.
- NAV frequencies can get out of sync, especially when rapidly pressing frequency adjustment buttons. Use the "Force Sync Frequencies" button to synchronize frequencies with the sim.
- You may see landings with a vertical speed between 0 and 5 fpm in the app. This is caused by the sim recording the plane loading on the ground at the start of a flight as a landing.
- The app may not work on a fresh Windows 10 installation. You may see a "Could not find MSFS running. Please launch MSFS first and then restart the MSFS 2020 Mobile Companion App." message even if MSFS is running. To fix this, please download and install the Microsoft Visual C++ 2015 Redistributable.

4 Credits

MSFS Mobile Companion App is based on the Python SimConnect project. The app uses MobiFlight's WASM Event Module and the MSFS Python SimConnect MobiFlight Extension by Koseng to access additional switches and buttons which aren't accessible via standard SimConnect. KML feature was created by *luka97*. I would like to thank Just Flight, Aerosoft, IndiaFoxtEcho, MilViz, and PMDG for providing a copy of their aircraft.

You can follow the development of the MSFS Mobile Companion App on GitHub.

5 Donation

If you like this tool and would like to support the development, please consider donating by clicking on this link.