



# Installation

AivlaSoft EFBv2  
User Guide

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## Disclaimer

EFBv2 must **only** be used for flight **simulation**, not for real world aviation.  
Please also see the license agreement.

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# 1 Overview

## 1.1 Scope

The system of EFBv2 consists of two separate programs, the EFB-Server and the EFB-Client. Separate installers for each of the two are provided. The most recent version of each installer can be downloaded for initial installation from AivlaSoft's website (<https://www.aivlasoft.com>). Thereafter all further software updates will be provided by an Automatic Update Function, integrated in each component.

## 1.2 System Requirements

### 1.2.1 Microsoft .NET Framework

Microsoft's .NET-Framework 4.0 is a basic requirement for each computer running EFB (Server and/or Client). On computers featuring Operating System Windows 7 or higher this requirement is usually fulfilled within the OS installation.

Upon installation of EFB this requirement will be verified. If no .NET Frameworks 4.0 can be found, the installation of EFB is not possible.

### 1.2.2 EFB Server

The following system requirements must be fulfilled to allow smooth operation of the Server:

- Operating System: Microsoft Windows 10, 8, or 7. 64-bit versions are recommended.
- .NET Framework 4.0 (see previous paragraph)
- One of the following Flight Simulation Programs:
  - Microsoft Flight Simulator 2020 / MSFS
  - Lockheed Martin Prepar3D, Version 2, 3, 4, 5
  - Microsoft Flight Simulator FSX, with SP2 (Acceleration Package, or FSX Gold Edition)
  - Dovetail Games FSX:SE
  - X-Plane, from version 11.30
- FSUIPC.dll installed (only required for MSFS, P3D, FSX, FSX:SE, see next paragraph)
- To use the Trial Version of EFB or to activate a purchased license an Internet Connection is required. There is no technical alternative for this requirement

As long as you use the Demo-License, for each start of the Server an Internet Connection is compulsory. To allow smooth operation output port 13 of your computer's Firewall or other Security Appliances must be enabled. Port 13 is required to connect to a Timeserver on the Internet. How to enable a specific port is described in the user manual of your Firewall's manufacturer.

As soon as EFB is activated with a purchased License Key, no more continuous internet connection is required any more.

Memory and CPU power requirements to run EFB Server on your computer are not explicitly mentioned as they are relatively low compared to the overall power required to run one of the mentioned simulators. It is assumed that enough resources are remaining for EFB's operation.

### 1.2.3 FSUIPC.dll

FSUIPC is **NOT** required **for X-Plane**.

Only MSFS, P3D, FSX, FSX:SE requires FSUIPC.dll.

In case you don't have FSUIPC installed yet, this is the moment where you definitely need to. The FSUIPC.dll is required on the Flight Simulator PC and is mandatory for the Server to connect to the Simulator. There is no need to install the Payware Version of FSUIPC. The Freeware FSUIPC is sufficient. If you have FSUIPC already installed - no matter whether freeware or payware - make sure that you have the most recent version for your Simulator type.

FSUIPC can be downloaded here: <http://fsuipc.com/>

To install FSUIPC please use FSUIPC's own installer

#### Important

Please be aware that there are various versions of FSUIPC available.

- MSFS requires the latest version of FSUIPC **7**.
- Prepar3D **v4, v5 (64 bit)** require version **6.0.3 or higher**
- FSX, FSX:SE, Prepar3D **v2** and **v3 (32 bit)** require version **4.974**

## 1.2.4 EFB Client

Following system requirements are valid for smooth operation of the Client:

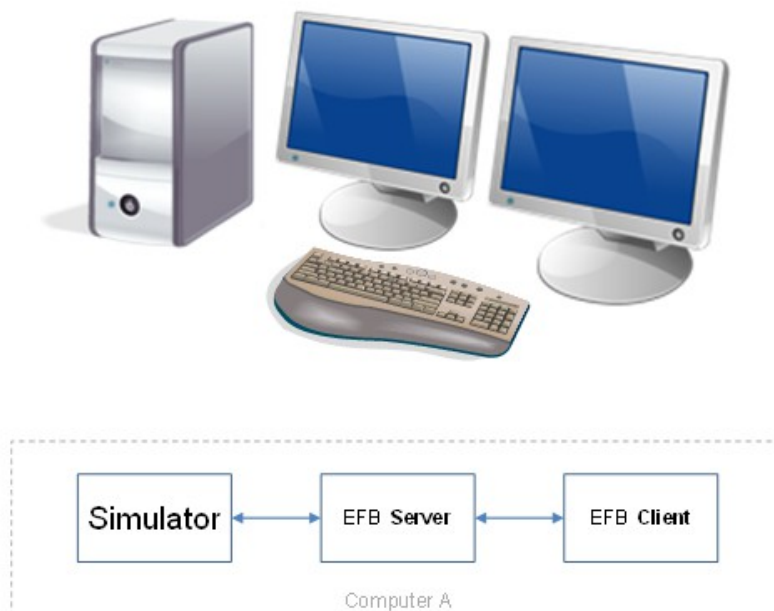
- Operating System: Microsoft Windows 10, 8, or 7. 64-bit versions are recommended.
- .NET Framework (see previous paragraph)
- Minimum 2 GB RAM is required, 4 GB or more is recommended
- Processor: i5 or i7 of a newer generation is recommended
- Screen Resolution: a minimum of 1280 x 960 is required

## 1.3 Install Variants

The EFB system can be installed as a single workplace solution as well as in a Network Environment and therefore suits various requirements.

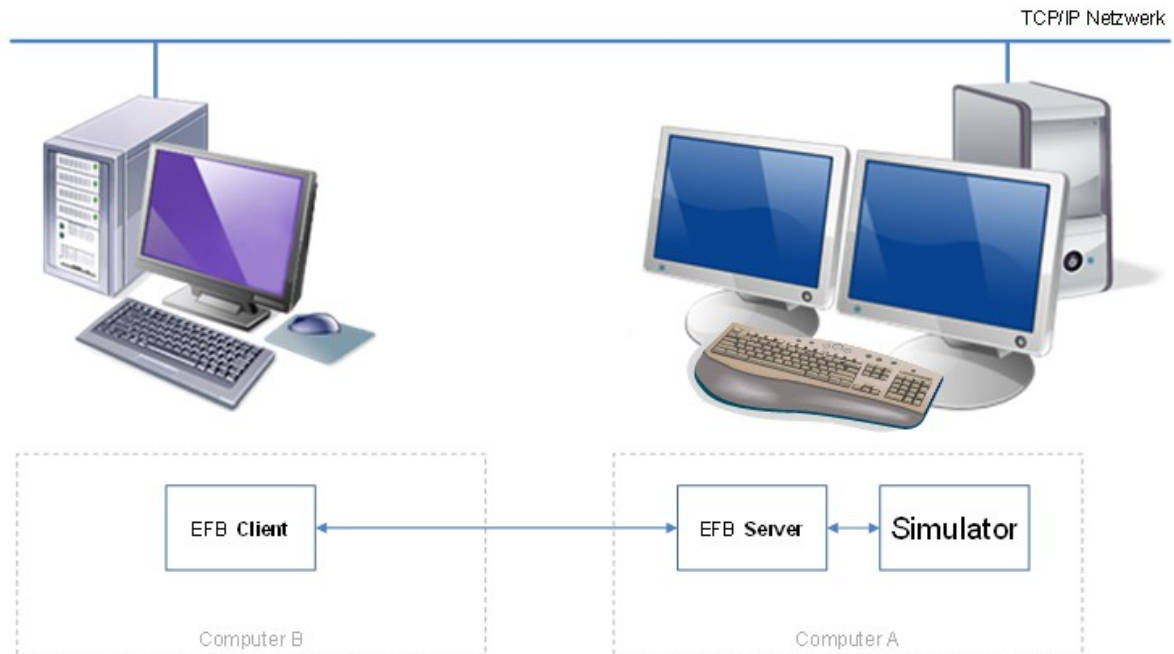
### 1.3.1 Single workplace

All components (Flight Simulator, Server and Client) are installed on one single computer. In this configuration we recommend the use of a second monitor.



## 1.3.2 Network Installation

Two or more computers with one or more display screens in a local network.



### Important

In network installations up to Windows 10 Build 1709 it is highly recommended to set up a so-called "homegroup". Access to network resources is much easier than without. Windows 10 Builds from 1803 and up however do not support "homegroups" any more.

For smooth network operations the use of a LAN cable is recommended. Operation on a WLAN (or Powerline) can sometimes lead to unwanted side effects but is still possible.

For smooth network operation make sure that all computers are within the same logical network and are accessed through the same network address (e.g. 192.168.100.nnn).

The EFB Server **must** be installed on the same computer as the Flight Simulator. The EFB Client **can** be installed on the same computer, but there is no requirement to do so.

## 2 Stepping up from EFB version 1

EFB V2 is a completely new development and has - except for the basic idea - nothing in common with EFB v1. The only files from v1 that can be used/imported are Routings and Checklists.

If you don't want to use any data from v1 you can simply uninstall v1 and skip this paragraph. Uninstalling v1 is best done via the Windows Control Panel.

After uninstalling version 1 start the installation of version 2.

### 2.1 Data transfer

If you decide to transfer the two mentioned data categories, please follow these instructions:

#### 2.1.1 Routings

Routings in version 1 are stored in the following folder:

C:\Users\<username>\Documents\AivlaSoft\EFB\UserData\Routes

Copy all files from this folder into separate folder outside the existing EFB v1 installation. Later, after successful installation of EFB, you may copy these files into the new routing data location of EFB.

It might be a good hint to use the opportunity of a new install to clear all the routings that are no longer required, or possibly even all routings.

#### 2.1.2 Checklists

Start the checklist editor in EFB v1 and use the Export Function for all checklists to be further used in EFB2. After exporting the checklists are stored in XML-format. Save all these XML-files into a separate folder outside of the existing EFB v1 installation. After having EFB successfully installed you will be able to use the EFB's own importer to transfer them into EFB. The importer is a feature of the EFB Profile-Editor.

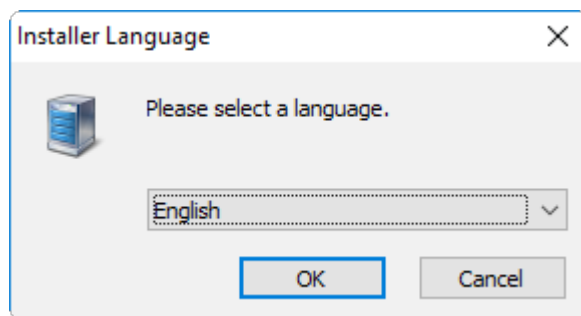


## 3 Installing the Server

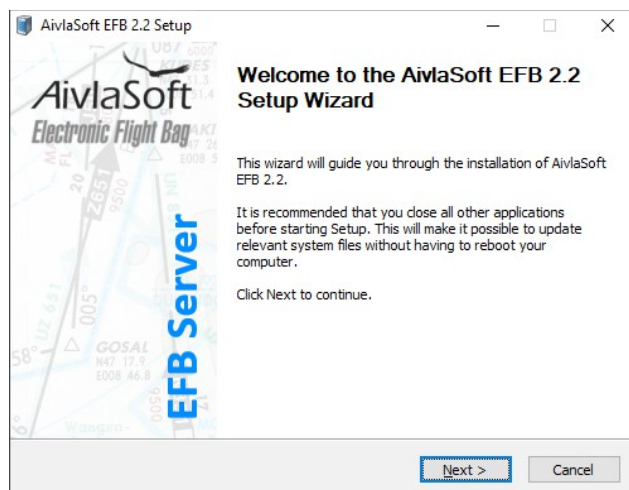
### 3.1 Step-by-step guide

Please run the installer in accordance with the following steps:

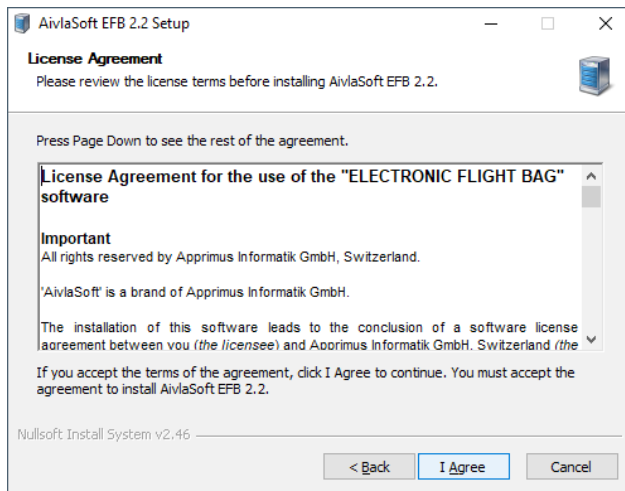
1. Make sure that all requirements (see under "System Requirements") are properly fulfilled, in particular also the installation of the proper version of FSUIPC
2. Make sure that you are running your system with proper Administration Rights
3. Unzip the file "AivlaSoft.Efb.Server.Setup\_2.1.exe.zip" into a temporary folder
4. Execute the file "AivlaSoft.Efb.Server.Setup\_2.1.exe" by right clicking and selecting the option "run as administrator"
5. Follow the installer's directions as per the attached screenshots



**Select the language** of your choice. For the time being German and English are available

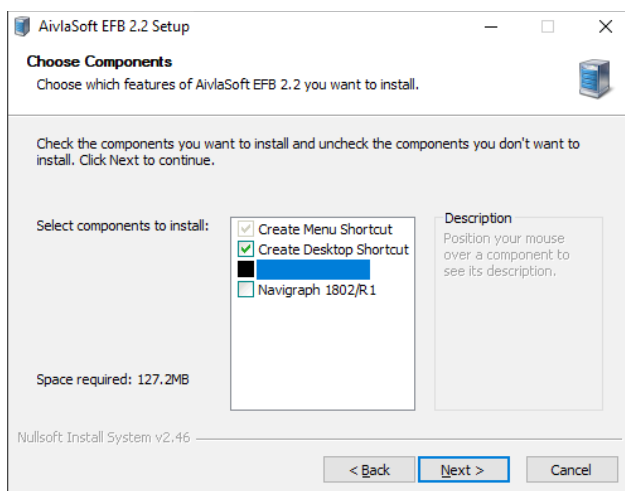


**Welcome Screen**



## License agreement

If you do not agree with the License Agreement, please cancel the installation. Else press "Accept" which declares accepting the terms of the License Agreement.

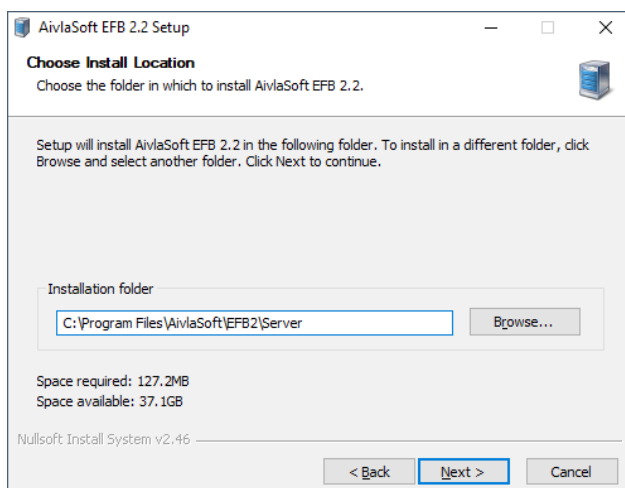


## Options

Make your selection for a Windows Menu entry and/or creation of a desktop icon

Choose the preferred navigation database provider.

**NOTE:** If you are a subscriber to one of the navigation database providers, you can install the current cycle AFTER the installation of EFB, but before you run EFB for the first time.

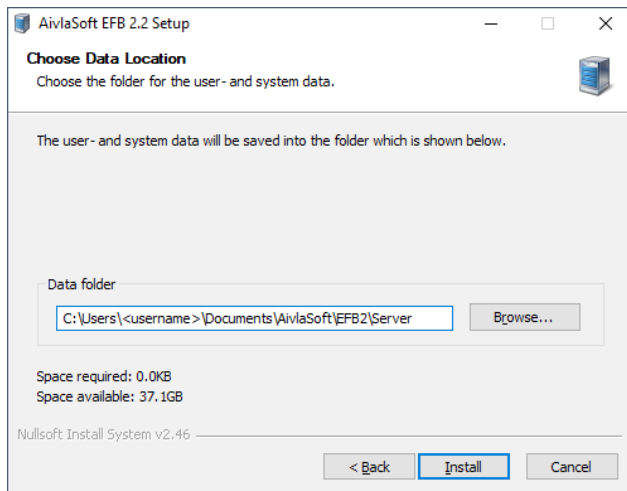


## Install directory

In case you are installing Server and Client on the same PC, it is of utmost importance that for each of the two components a separate directory is selected.

If both components are installed into the same directory, EFB will not work!

We strongly recommend using the proposed installations paths

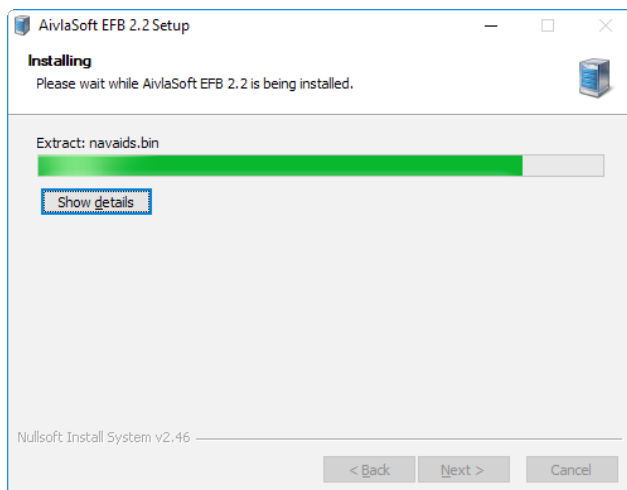


### Data directory

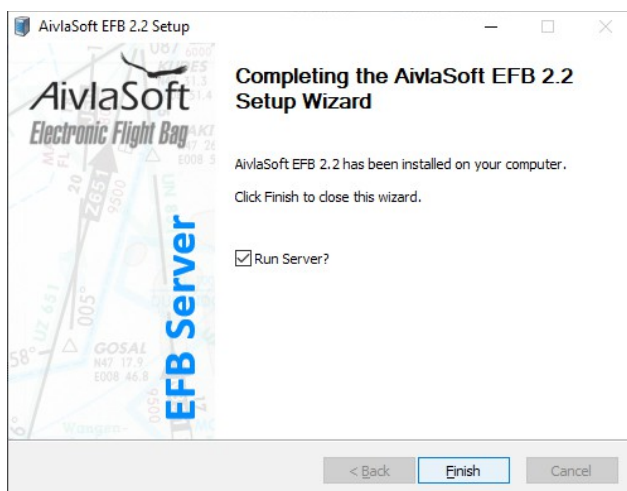
This is the directory for all data used by EFB Server. The dataset consists of system data, log data and user data

**Important:** Do **not** select a directory which contains already other data. In case of uninstallation the entire data directory including all data will be deleted!

**Important:** Do **not** select a directory which will be synchronized with any **Cloud** service.



**Progress bar** providing information about the installation process



### Finalizing the installation

It is recommended to let the option ticked in order to automatically start the EFB Server after the installation has been finished.

The document "Quickstart-Guide" will also be opened automatically. If not, please check whether on your computer an application is installed which allows to view PDF files.

## 3.2 System Registry Entries







During the installation process the following entries will be placed into the System Registry of your Computer for either 32-bit or 64-bit Operating Systems:

32-bit Operating System:

HKEY\_LOCAL\_MACHINE\Software\AivlaSoft\EFB2\Server

64-bit Operating System:

HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\AivlaSoft\EFB2\Server

Name	Type	Data
 (Default)	REG_SZ	(value not set)
 CreateShortcutDesktop	REG_SZ	0
 DataFolder	REG_SZ	C:\Users\<username>\Documents\AivlaSoft\EFB2\Server
 InstallationFolder	REG_SZ	C:\Program Files\AivlaSoft\EFB2\Server
 InstallationSuccess	REG_SZ	1
 Version	REG_SZ	2.2.121

Please do not make any changes to the registry entries.

Those entries are mandatory for correct execution of the installer, especially for future automatic updates. They will be automatically deleted upon uninstalling EFB. It is therefore not necessary to make any manual changes therein.

EFB does not make any other entries to the Registry, in particular not for any Licensing information. Licensing information are stored in the Data Subfolder "License" in encrypted form

### 3.3 AIRAC Cycle

The installer of the Server provides a so-called AIRAC Cycle in the Data path. The meaning of the term "AIRAC Cycle" describes a set of Worldwide Navigation data, updated in a 28-day cycle. These data include RWY position data, Departure and Arrival procedures of almost all airport worldwide that offer such procedures. Only a few minor or private airports are excluded.

The AIRAC Cycle supplied with the basic installation is not the most recent one, however it is included to provide full functionality of EFB.

You are free to update the AIRAC Cycle by one of the two Data providers presently offering this service:

Aerosoft GmbH: <http://www.aerosoft.com>, product name "NavDataPro"

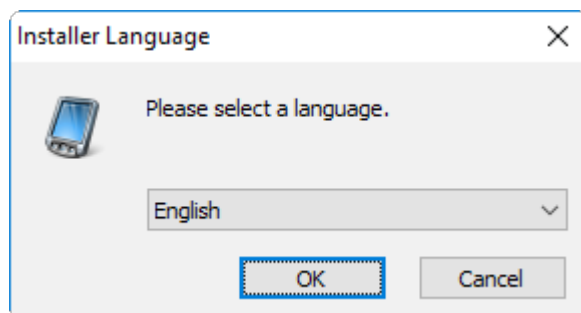
Navigraph KB: <http://www.navigraph.com>, product name "FMS Data"

## 4 Installing the Client

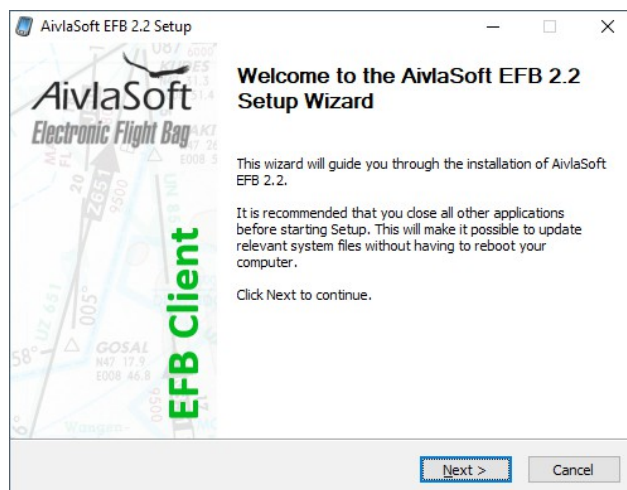
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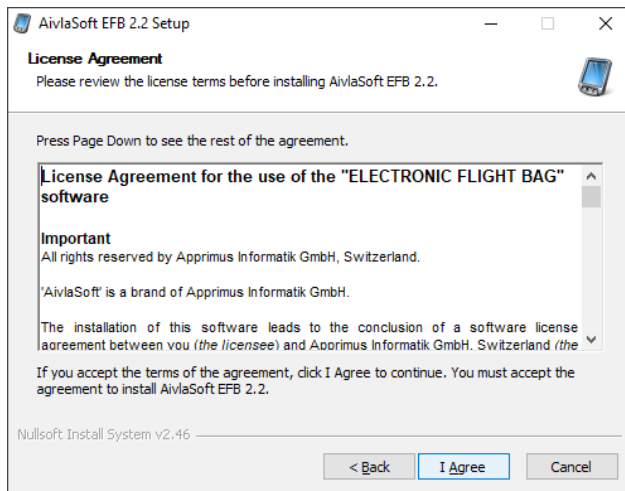
1. Make sure that all requirements (see under "System Requirements") are properly fulfilled
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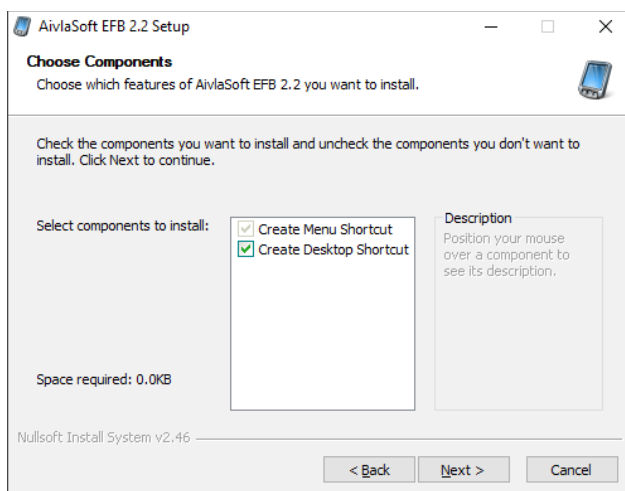


**Welcome Screen**



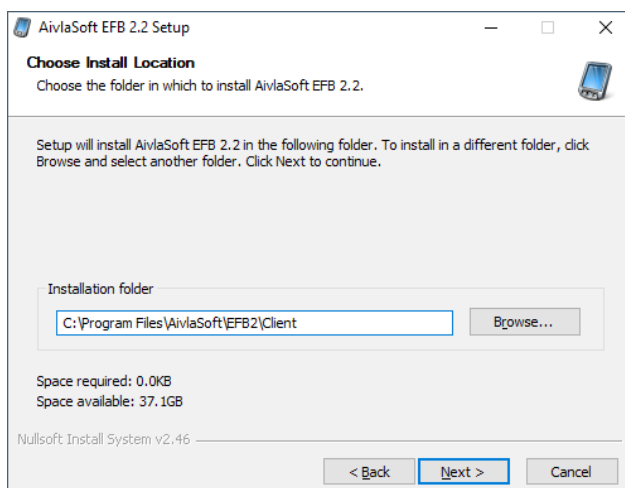
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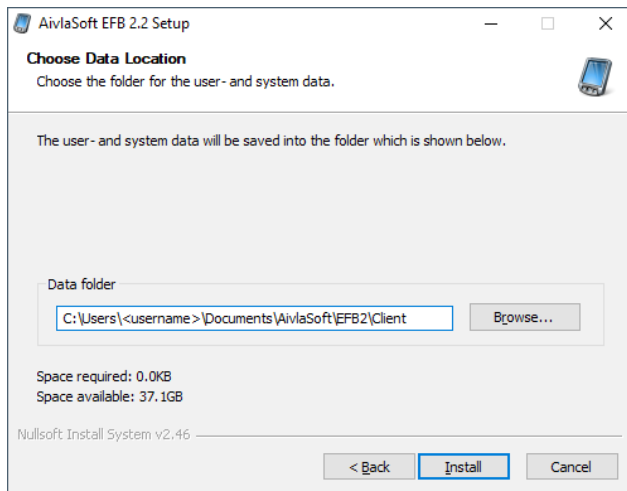


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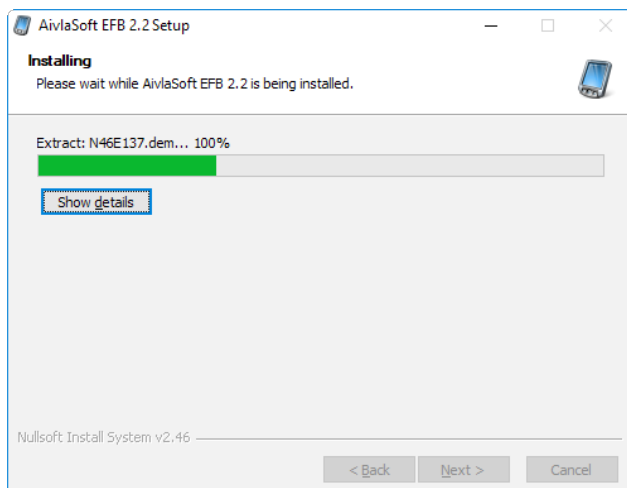


### Data directory

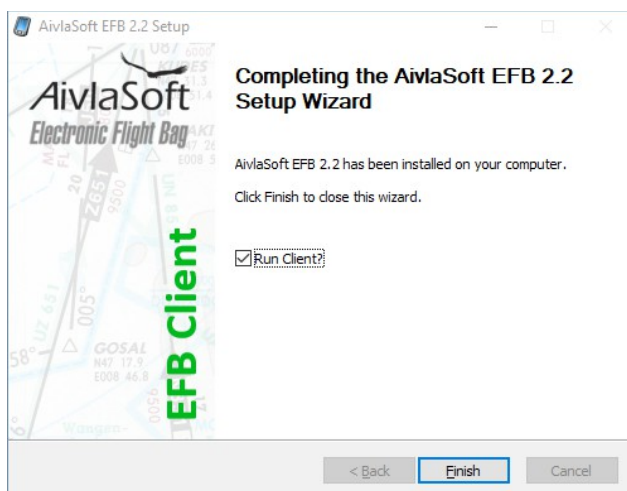
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**Progress bar** providing information about the installation process



### Finalizing the installation

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64-bit Operating System:

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Name	Type	Data
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 DataFolder	REG_SZ	C:\Users\<username>\Documents\AivlaSoft\EFB2\Client
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 Version	REG_SZ	2.2.121

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EFB does not make any other entries to the Registry, in particular not for any Licensing information. Licensing information are stored in the Data Subfolder "License" in encrypted form

## 5 Uninstallation

If you choose to uninstall the EFB at any stage (Client and/or Server), please use the Uninstaller Function provided in the Windows Control Panel. Proper use of this uninstallation feature assures faultless deletion of all pertinent data including Registry Entries.