NOTE:

fsAerodata software is intended for hobbyists and personal training in conjunction with Flight Simulator tool, and is not suitable or certified for actually train a person to operate an aircraft.
Support

fsAerodata is a new product; check out on our website what support options are available. At this first stage of the product, support is available via email at support@fsaerodata.com

DEUTSCH: Fragen und Technische Unterstützung ist per email verfügbar: support@fsaerodata.com

ESPAÑOL: Para cuestiones o soporte técnico, pueden contactarnos a: support@fsaerodata.com
Quick Start

If you are already familiar with the operation of the tool, here is a quick start guide. Follow the next steps to install and configure your flight simulator with an updated navigation database:

1. Open fsAerodata Configuration tool
2. Activate and download the latest AIRAC cycle (button 1)
3. Press INSTALL button to Install database in flight simulator (button 3)
4. Select flight simulator (box 2)
5. Press ENABLE button (button 4)
6. Launch flight simulator
   (repeat steps 4-5 to install database in other flight simulators)

When a new cycle is available, repeat steps 2-3 and launch flight simulator afterwards.
**Introduction**

fsAerodata is a product for flight simulation that enables the updating of the built-in default aeronautical navigation database in FSX and Prepar3D to current, real world, conditions. The updates follow the regular 28-day AIRAC cycles.

The FSX and Prepar3D flight simulation platforms include an outdated navigation database dated from 2005. The database has a complex and custom format that makes the updates a labour-intensive and challenging task, especially for approaches.

The fsAerodata tool includes algorithms that automate the conversion of the aeronautical source data released every 28 days, in a format that is compatible with FSX and Prepar3D.

The source data is supplied by Navigraph and is updated every AIRAC cycle. Each 28 days, a new dataset is ready in fsAeroData to download and install in your flight simulator. fsAerodata concerns only the default FSX/Prepar3D database; all flight simulator add-ons and tools are updated via Navigraph’s FMS Data Manager directly.

In addition to Navaids, fsAerodata updates all approaches, departures and arrival procedures worldwide to real world conditions. Traffic Control and AI traffic will benefit by using real approaches (only on final approach).

The fsAerodata tool can be purchased as a 1-year license, valid 365 days from the date it was purchased. Additionally, you’ll need an active subscription to Navigraph, which is the provider of the source data to fsAerodata. When downloading the cycle, you’ll be requested to validate your Navigraph subscription.

**Product features**

Together with Navaids and Airways, a total of 6,700 airports get a full revision of more than 90,000 approaches including STAR arrivals, and SIDs departures.

Worldwide update of flight simulator navigation database, including following elements:

- **Navaids:** VORs, DME, NDB, TACAN, Enroute and terminal Waypoints, (update identification IDs, frequency, coordinates, magnetic variation).
- **ILS stations:** only frequency is updated; no other data is updated, to assure compatibility with default runways.
- **Obsolete Navaids** are removed or disabled.
- **Instrument Approaches**, including SIDs and STARs procedures.
- **Airways Routes**, including High and Low altitude airways.
- **Access to SIDs & STARs procedures** on default GPS navigation unit (on Prepar3D).
- **Update of Runway designators**.
- **Simulation of TACAN facilities** (on Prepar3D).
- **Traffic Control:** Simulation and tracking of real approaches using the updated database. If an ILS flight plan is entered, traffic control will use the updated approaches installed; on the ATC menu, the user can select alternative approaches.
• Flight planning using default tool will generate routes using real world navaids and airways.
• AI traffic benefits from updated approaches, following real world condition approaches in some conditions.

Background

Due to the closure of the franchise, the updates to the navigational coverage were terminated. New products Lockheed Martin’s Prepar3D and Dovetail FSX Steam edition, based on FSX product, did not receive updates of aeronautical aids and airport coverage.

After 10 years without official navigational data updates, some alternatives are available. Several Payware add-ons include FMS and GPS systems which can work with updated navigational data. A freeware service which offers free monthly updates limited to worldwide navigational aids is available.

fsAerodata service claims the inclusion of every documented navigational aid, airways and airport approaches.

Attention: To access the updates, a subscription with Navigraph FMS service is required.

The program is compatible with FSX, FSX Steam and Prepar3D programs.

<table>
<thead>
<tr>
<th>fsAerodata</th>
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<tbody>
<tr>
<td>Obsolete VOIs from FSX removed</td>
<td>1,027</td>
</tr>
<tr>
<td>Obsolete NDBs from FSX removed</td>
<td>2,793</td>
</tr>
<tr>
<td>Updated VOR, NDB frequencies</td>
<td>158</td>
</tr>
<tr>
<td>Airports w. updated Instrument Approaches (IAPs)</td>
<td>6,536</td>
</tr>
<tr>
<td>SIDs and STAR procedures</td>
<td>&gt;80,000</td>
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</table>
**Requirements:**
FSX, FSX-SE, Prepar3D v1 to v3. Administrator rights may be required, depending where flight simulator is set up on a PC.

A subscription with Navigraph FMS Data service is required to access and download the AIRAC cycles.

An internet connection to validate and download AIRAC cycles.

**Limitations / compatibility:**
fsAerodata do not modify ILS data linked to runway characteristics (e.g. glideslope coordinates, angle, ILS coordinates). Only its frequency is updated.

Markers are not updated at present.

Nav aids scenery objects, removed or no longer in use, are not removed at present.

Airport data are not updated or modified (runways info, communication frequencies).

The software has been verified with the default flight simulator.

Payware sceneries or tools may have already updated navaids and/or approaches of certain airports. fsAerodata will update approaches to the latest AIRAC dataset; navaids and terminal fixes are not removed or disabled. Please read instructions below on the arrangement of scenery priority on flight simulator, for Payware sceneries.

Please note that at this time, this software is not compatible with Aivlasoft EFB.

**License conditions:**
fsAerodata is licensed for leisure, hobbyist and personal training use. The product is not licensed for professional training or commercial purposes.

**First Run of Configuration Tool**
After the purchase of fsAerodata, download and install program on your computer; you can see download link on the email you received with your purchase order information. Installing it outside of Windows Program Files is recommended, to avoid administrative privileges issues. It’s not necessary to install it within your flight simulator directory structure.

NOTE: fsAerodata needs administrative rights, particularly if the UAC (User Access Control) is activated. If so, Click right button on mouse, and select “Run as Administrator”. Alternatively, open Properties, select Compatibility page and tick the option “Execute this program as Administrator”.
Instructions for updating the navigation database

The configuration tool allows installation of new AIRAC cycles, including options to enable or disable the updated database and selection of the flight simulator directories.

Make sure, your flight simulator is not started during the installation and configuration of the database.

The installation of an updated navigation database consists of following steps:

1. Activation and download of AIRAC cycle (button 1)
2. Installation of database (button 2)
3. Selection of flight simulator (box 3)
4. To enable updated database on flight simulator (button 4)
5. Launch flight simulator
   (repeat steps 3-4 to install database in other flight simulators)
Before updating the data on your sim for the first time, the program will ask you to do a backup of the original files in flight simulator related to navigational data. By default, files are stored under directory \C:\fsad_backup_org, to avoid issues with administrative privileges. You can choose another directory, but the name cannot be changed. Once the directory is selected, the program will place the backup files in the location selected.

**Activation and download of AIRAC dataset (button 1)**
Every 28 days, an updated dataset is available. The dataset consists of files formatted and ready to install on flight sim.

The database includes two versions; one version for FSX/FSX-SE and another for Prepar3D; the FSX version does not include SIDs and STARs data. Both versions are included in the downloaded archive.

Press button “Download AIRAC cycle” to redirect to the Validation webpage on fsAerodata webpage. Alternatively, activation page is located at following web address: [https://www.fsaerodata.com/support/airac-cycle](https://www.fsaerodata.com/support/airac-cycle).

To access validation page, you need to be registered as a user on fsAerodata.

The validation system is used to verify that you have an active subscription at both Navigraph and fsAerodata. Press “Unlock” button to start validation. The first step is the validation with Navigraph; the system connects with Navigraph server and a window pops up requesting rights to access your subscription information at Navigraph. After authorizing access, the system verifies subscription at Navigraph and later at fsAerodata. After positive verification, the latest cycle is downloaded onto your computer. If there are any errors, they will be displayed on a pop up window.
To speed up the authorization process on the following cycles, fsAerodata keeps authorization access information for later use. In case you need to initiate or reset, please press “Reset” button and afterwards start unlock of cycle as instructed above.

Navigraph user log in is stored as cookies in your browser. If you need to sign in and validate as a different user with Navigraph, please delete cookies linked with Navigraph. You can find more information how to do this on the help menu of your default browser.

After the cycle has been downloaded, open the Configuration Tool and press INSTALL button. In the directory window, enter the directory path where the fsAerodata was downloaded. Afterwards, the tool will install and configure the navigation dataset on your flight sim.

**Selection of the flight sim (button 2):**
The configuration tool detects automatically which simulators are currently installed. You can install the navigation data on one simulator at a time. To install the database on one of the flight sims, check it in the selection box and then press button INSTALL CYCLE.

In the case of the simulator not being detected automatically, its location can be entered manually via the options menu.

**Installation of new AIRAC cycle (button 3)**
At program start, it shows the current AIRAC cycle installed on your sim, its validity and when the next cycle is available.

Press the INSTALL button to install the latest navigation dataset in flight sim. A window opens to browse the location where the AIRAC database was downloaded. After the AIRAC file has been selected, the program installs the navigation files onto the fsAerodata subdirectory [fsAerodata dir]\Navigation Data. The first time an AIRAC is installed, it sets the scenery configuration files [scenery.cfg] of the selected flight simulator, with the proper entries.

During the installation, the program creates a backup of the previous dataset. They can be found in folder [fsAerodata dir]\Navigation Data\OLD\.

Please try to always use the latest cycle available. Previous cycles which were already activated, are available on our server maximum one month after its expiry date.

**Enable/disable navigation database (button 2)**
The status of the navigation database installed is displayed in the status window.

If the default (original configuration) database is installed, the button displays ENABLE.

ENABLE button: press the button to install the updated navigation database in flight sim. During the process, a window opens during a few seconds, and the program creates a backup of files and activation of new navigation data on flight sim. After the installation finishes, the
text of the button changes from ENABLE to DISABLE. The status shows the message “FLIGHT SIMULATOR DATABASE: UPDATED”

DISABLE button: press the button to revert to flight sim default database. A new window opens up for a few seconds, while the files are being copied to the flight sim directory and fsAerodata database becomes disabled.

It’s not necessary to disable navigation database when installing a new cycle.

NOTE: if you install new sceneries/airports on flight sim, please DISABLE fsAerodata first, to guarantee compatibility between fsAerodata and other sceneries. After the installation is completed, fsAerodata can be enabled again.

Arrangement of scenery priority on flight simulator
As a general rule, put fsAerodata scenery entries, on top of your scenery library. fsAerodata navdata will overwrite old data positioned below, especially for Payware airports with old navdata.

Configuration of GPS units on Prepar3D
The option to load and simulate SIDs and STAR procedures is available on the default GPS units delivered with Prepar3D platform. To enable them, you need to perform the following change in the panel configuration file on your aircraft.

Open panel.cfg file, located in the panel folder of your aircraft directory, with your preferred text editor and replace the entries ‘fs9gps.gau’ with text ‘p3dgps.gau’ instead. Save the file and open the simulator. The PROC button on the GPS will show departure and arrival procedures together with the default approaches.

Uninstalling of fsAerodata
If you reinstall fsAerodata or flight simulator, you can set fsAerodata to the default status for the selected simulator first.

If the directory of flight simulator has changed due to a new installation, you have to reset the backup directories on fsAerodata, used when database is enabled or disabled. After fsAerodata is moved to default status and simulator is reinstalled, delete directories located on
[fsAerodata dir]\system\backup\[flight simulator dir], where flight simulator directory can be FSX, P3D or FSXSE. Additionally, scenery entries that were inserted by fsAerodata in scenery.cfg file, have to be removed manually.

After directory, has been deleted, launch fsAerodata and enable the updated database; a new backup will be created using the new flight simulator directory.

If you forget to disable fsAerodata before reinstalling a flight simulator, run fsAerodata and disable it for the selected simulator, then re-enable it to re-enable the navigation database.

The backup files can be copied back to the flight simulator in the case of issues with uninstalling. Go to backup folder selected during first run of the program (by default, it’s located on C:\fsad_backup_org), enter the directory of the simulator you want to do a backup of and copy all subdirectories to your scenery folder in flight simulator folder \scenery.

Others
A list of FAQs is maintained and is available on www.fsaerodata.com/faqs.htm
End-User License Agreement

This End-User License Agreement (“EULA”) is a binding legal agreement between yourself and fsAerodata; when you click to “agree” on installing this software, you indicate your approval of these terms and conditions, at which point this EULA becomes a legally binding agreement between yourself and fsAerodata. fsAerodata disclaims any and all responsibility for the software program and its data or liability connected to the software program and its data. The software program and data are provided by fsAerodata "as is" and "with all faults" and fsAerodata makes no submissions or warranties of any kind concerning the quality, security or suitability of the software, either expressed or implied, including, without limitation, any implied warranties of fitness for a particular purpose or non-infringement. Furthermore, fsAerodata makes no representations or warranties as to the genuineness, accuracy or completeness of any statements, information or materials concerning the software program and data on the fsAerodata website and in no event will fsAerodata be liable for any circuitous, punitive, particular, incidental or consequent damages however they may arise and even if fsAerodata have been previously advised of the possibility of such damages. fsAerodata cautions you to make sure that you completely understand the potential risks before downloading any of the software as you are solely responsible for adequate protection and backup of the data and equipment used in connection with any of the software, and fsAerodata will not be liable for any damages that you may suffer in connection with using, modifying or distributing any of the software even if fsAerodata have been previously advised of the possibility of such damages. Before you purchase from fsAerodata, please evaluate the software characteristics, requirements and limitations stated in the FAQS section on fsAerodata website and the manual available online, to make certain you are satisfied with what the product is and does. Before purchasing from fsAerodata, please read the documentation for the product so you can be sure it is what you wish to buy and ask questions via our email support if you need further information prior to your purchase.

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