# Aircraft

Help bits

## Contents

There is a video on Aircraft window in our [web site](#).

# Overview

This window allows creating and editing aircraft records.

This window is accessible depending on the user role, and works differently depending on the assigned privileges. Please have a look at the help on users and roles for more information about these working modes.

The window divides the information in several tabs described in this document:

- Identification
- Documentation
- Maintenance
- Flights
- Prices
- Availabilities
- Documents
- Charts

# Filter

Filter  QY  ✖

To the lower-left corner of the window, there is a text box which allows filtering the aircraft on screen when the text in the box matches:

- Any bit of the aircraft plate
- The aircraft number
- The aircraft maker

The filter can be easily cleared by clicking on the clear button ✖

# Operation

## Identification

It contains the fields described below:

| | |
|---|---|
| Plate | A seven-character field to identify the aircraft. |
| Serial number | This is an optional field. ATO Explorer does nothing with it. 15 characters maximum. |
| Build date | This is an optional field. ATO Explorer does nothing with it. |
| Maker | This is an optional field. ATO Explorer does nothing with it. 25 characters maximum. |
| Model | This is an optional field. ATO Explorer does nothing with it. 20 characters maximum. |
| Type | This field can contain up to 15 characters, and is used when describing the list of flown aircrafts in the hour's certificate. |
| Aircraft type | The hour's certificate wording will vary depending on the aircraft type. |

There are five possible aircraft types:

- Plane
- Microlight
- Helicopter
- Glider
- Balloon

Though only the ones marked in the preferences window miscellaneous tab will be in this list.

| | |
|---|---|
| Ratings | Once the aircraft type is selected, ratings can also be assigned to the aircraft, which will allow limiting the conditions when an aircraft can be assigned to a course exercise. For instance, a course exercise may require an aircraft rated as acrobatic. |
| Group | Here we will select the group the aircraft belongs to, which allow aircraft classification in the left tree view. |
| | Aircraft groups are defined in the miscellaneous window aircraft groups tab. |
| Base | The aircraft operating base. Currently there is no use for this field within the application. |
| Color | The button beside the previous field allows assigning a colour to the aircraft. This colour will be used on screen an in most of the reports mentioning the aircraft. |
| Active | It allows ignoring non-active aircrafts in the application selection lists. |
| Maintenance | When checked, the selected aircraft is marked as maintenance |

| aircraft | aircraft. |
| --- | --- |
| Simulator | It marks the aircraft as a simulator. Simulators are treated as actual aircrafts in most application windows and reports. |
| Available | This check-box has three states to identify the aircraft availability:<br>• When checked, the aircraft is always available<br>• When cleared, the aircraft is never available<br>• When shaded, the aircraft availability is set in the availabilities tab. |
| IFR | When checked, is signals the aircraft to be IFR-certified, and in the flight entry window, the flight time will be annotated by default as IFR time. |
| Engines | A number in between zero and four. |
| Passengers | It sets the maximum number of aircraft passengers. |
| Weight | In Kg. This field is not currently used. |
| Type ICAO | It is the aircraft type which will be present in pilot log-books. |
| Notes | Contains a maximum of 256 characters. |

## Auditor emails

If an auditor is set in preferences window, when any change is produced in aircraft ratings, the auditor receives an email for him/her to be aware of the changes.

Please have a look to the email chapter in the preferences window help document for more information.

# Documentation



Here we set information about the three aircraft documents:

- Airworthiness certificate
- Insurance
- Radio-station permit
- Registration certificate
- CAMO contract

As we get new aircraft documentation, we will add then to this list. It is not necessary to delete old documents, since ATO Explorer will consider only the most recent one for warning purposes.

When an aircraft document is about to expire, a warning will appear in the billboard window, and the situation will also be highlighted in the planning window.

The indicator shown in the tab is the worst of the most recent documents of each type.

When a document is selected, the frame to the right side will show its associated information, which is similar for the three document types:

Issuer             A maximum of 32 characters for the document issuer.

Reference       The document ID, with a maximum of 16 characters.

Validity          The document's issuing date.

Expiry              Its expiration date. For the expiration date to be taken into account, the date check-box must be checked.

                    For instance: if an airworthiness certificate never expires, we will clear the check box meaning this certificate is always valid.

Paid                The amount we paid for the document, which will be added to the aircraft expenses account.

Notes               This field can contain a maximum of 128 characters.

## Auditor

When the auditor is enabled in the preferences window email tab, any document change sends an email message to the selected address in the form:

```
Aircraft ECGGG


Document                   Start   End        Start   End
Airworthiness certification 19/09/11 18/09/12  → 19/09/12 01/11/13
Insurance                  19/09/11 18/09/12  → 19/09/12 18/09/13
```

# Maintenance

Maintenance tab contains three tabs:

- Current status
- Checks
- Maintenance requests

## Current status



This is a read-only tab with information about aircraft's current status.

Clicking on the tree view branches we can check the status of each individual item defined for this aircraft according to its maintenance manual.

The indicator in this tab is the same that shows in the maintenance tab, and corresponds to the worst one of the indicators shown in the tree view.

Times are expressed in sexagesimal format.

The first item which leads to the next inspection is highlighted below the Current Total Aircraft Time (TAT).

## Checks



This tab shows the list of inspections performed to the selected aircraft, sorted by dates.

Once an aircraft record is created, we'll use the 'Rotables' button to enter the list of maintainable parts according to the aircraft maintenance book, so that ATO Explorer can do the maintenance control from then on. This window operation is described further on.

Once rotables are defined, we'll click on the 'add' button once for every inspection the aircraft goes through. As we do, a new item will show in the above list, with current values for date and aircraft TAT.

By double-clicking on the just created item or by selecting it and then clicking on the 'edit' button, a new window will open where we will fill in the inspection data.

### *Inspection performed with excess flight hours*

If a 50h inspection was performed at 1005h when scheduled at 1000h, 5 hours past the scheduled time, the next inspection will be scheduled at 1050h, reducing the flight potential to the next inspection to 45h instead of 1055h.
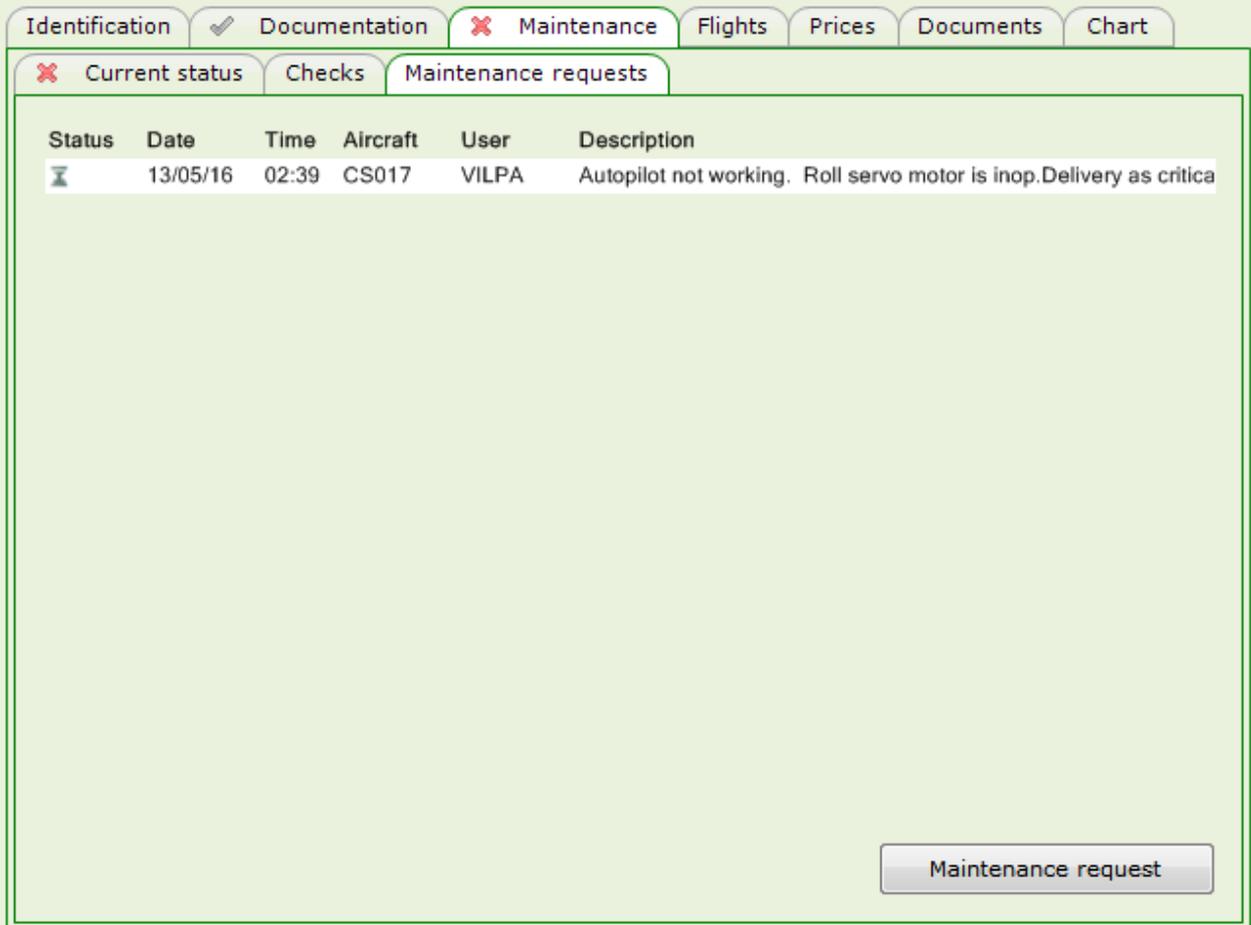
# Maintenance requests

This section is enabled to Premium rate users only.

See a complete description of this section in this link.

The list shows the maintenance requests not yet resolved.

Users with granted maintenance permissions can open a new window by double-clicking a request, which shows the request details:

# Flights

| | Date | Flight Id | Flight report # | Origin | Time | Destina | Time | Flight time | TAT | Lan | Pas | Cre | Pilot | Flight type | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ● | 14/02/18 | ATO082 | 0833 | LESU | 11:30 | LESU | 12:40 | 01:10 | 3136:58 | 1 | 0 | 2 | TURDEAN, DANIEL | School | |
| | 13/02/18 | ATO086 | 0832 | LESU | 15:50 | LESU | 17:06 | 01:16 | 3135:48 | 2 | 0 | 2 | Lown Plaza, Yuri | School | |
| | 13/02/18 | ATO084 | 0832 | LESU | 14:50 | LESU | 15:00 | 00:10 | 3134:32 | 1 | 0 | 2 | TURDEAN, DANIEL | School | |
| ● | 13/02/18 | ATO083 | 0832 | LESU | 13:35 | LESU | 14:20 | 00:45 | 3134:22 | 1 | 0 | 2 | TURDEAN, DANIEL | School | |
| ● | 02/02/18 | ATO086 | 0831 | LESU | 14:30 | LESU | 15:50 | 01:20 | 3133:37 | 1 | 0 | 2 | Lown Plaza, Yuri | School | |
| ● | 02/02/18 | ATO089 | 0831 | LESU | 08:50 | LESU | 10:00 | 01:10 | 3132:17 | 1 | 0 | 2 | Lown Plaza, Yuri | School | |
| | 31/01/18 | | | | 16:34 | | | | 3131:07 | | | | **Inspection** | | inspección 5l |
| ● | 30/01/18 | ATO089 | 0830 | LESU | 09:10 | LESU | 10:10 | 01:00 | 3131:07 | 1 | 0 | 2 | Lown Plaza, Yuri | School | |
| ● | 29/01/18 | ATO089 | 0829 | LESU | 19:45 | LESU | 20:25 | 00:40 | 3130:07 | 1 | 0 | 1 | Figueres Afonso, Mauricio | School | |
| ● | 29/01/18 | ATO088 | | LESU | 18:45 | LESU | 19:25 | 00:40 | 3129:27 | 1 | 0 | 1 | Figueres Afonso, Mauricio | School | |
| ● | 29/01/18 | ATO081 | 0828 | LESU | 11:00 | LESU | 11:55 | 00:55 | 3128:47 | 1 | 0 | 2 | Lown Plaza, Yuri | School | |
| | | | | | | | | 09:06 | | 11 | | | | | |

**Properties**

Selection
- ○ By date
- ● Last 10
- ☐ Chock times
- ▣ Marked

Dates
- ☑ Date start  21/02/2018
- ☑ Date end  21/02/2018

[Recalculate TATs]                                           [Refresh]

This tab shows by default the last N flights, N being defined if the preferences window miscellaneous tab.

Flights can also be listed in between two dates. Remember that, when any of the bottom settings change, the 'refresh' button must be pressed to show the result.

Times shown are either Zulu or local, depending on the setting in the preferences window ratings tab.

## Chock times

The 'Chock times' check-box allows toggling in between flight times – which show by default- or chock times.

When this tab is visible, the main menu shows a 'reports' option which generates a Word document with the flights on screen, in a format which is very similar to the official log-book.

**IMPOR-TANT!**

On selecting several cells in the columns 'Flight time' or 'TAT', a tooltip will show the total time selected or the difference in between the two TATs.

If the user has allowance to do so, by double-clicking a grid row will open the flight-entry window.

## Recalculate TATs

This button calculates the Total Aircraft Time for each flight of the selected aircraft.

TAT is calculated out of the value set in the most recent inspection and adding to that the flight time of all previous flights, including the current one.

Although this process is performed automatically as any flight is added, sometimes may be necessary to explicitly execute this task, especially after adding a flight before the last performed inspection.

## Marking flights

If this option is enables in the preferences window and the user has enough privileges, ATO Explorer adds a column to the right of the grid which shows either the

or the    icons.

When a flight record is created the flight is not marked, and shows the    icon.

A user with enough privileges to modify this mark can change it to    just by clicking on the icon.

## Adding an inspection

From the flight tab you can add an inspection using the context menu that appears when you right-click on any flight.

The inspection will be created with the landing date and time of that flight, and the Total Time of the Aircraft (TAT) will be equal to the one that the aircraft had at the end of that flight.

## Menu options

The 'Reports' menu option shows when the flights tab is at sight. It has two options:

### *Aircraft log book*

It builds a Microsoft Word document including the same flights shown on screen, in a format that mimics the official aircraft log book.

### *Export flights to Excel*

It builds a Microsoft Excel document including the same flights shown on screen, with some extra fields.

## All flights in between two dates

It builds a Microsoft Word document similar to the following:



ATO Explorer
All flights in between two dates
09/09/19 - 10/10/19                                                              09/10/19

| Date | | | Time | Minutes | Plate | Amount | Pilots | Notes |
|---|---|---|---|---|---|---|---|---|
| 09/09/19 | 08:25 | 10:05 | 01:40 | 100 | ECST1 | | Lombardin Martín, Joao<br>Gonsalves, Astrud | |
| | 08:45 | 10:30 | 01:45 | 105 | SIM01 | 280.00 | Malén Fumero, Alexandra<br>Bueno Goblen, Manuel | |
| | 09:25 | 10:55 | 01:30 | 90 | ECKOP | | Algarrobo, Hugo<br>Tangana, Beatriz | |
| | 10:15 | 12:45 | 02:30 | 150 | ECST1 | 400.00 | Gonsalves, Astrud<br>Lombardin Martín, Joao | |
| | 11:15 | 13:45 | 02:30 | 150 | SIM01 | | Bueno Goblen, Manuel<br>Malén Fumero, Alexandra | |
| | 11:30 | 13:55 | 02:25 | 145 | ECKOP | | Algarrobo, Hugo | |

## Flight sheet F-DLA-UACT-01

It builds a Microsoft Word document in the format specified by AESA for microlight schools.

## Maintenance forecast

It builds a report showing flights and confirmed events after the last notified aircraft inspection, which will help us know how long is left until the next inspection.

# Prices



Let's review the information in this tab:

Owner            It contains up to 35 characters, and is an optional field.

Users            Select in this list the users we allow to enter this aircraft
                 flights.

                 For the selected users to be able to enter their own flights,
                 they must belong to a role with such privileges. The Head of
                 Flight can overview at any time the flights entered such a
                 way.

                 Please have a look to the users and roles window for
                 information about how to set such a role.

Standard rate    This field is not currently used.

Fuel and oil     This field is not currently used.

# Documents



This tab allows associating electronic documents to the aircraft record.

The four columns describing the document are:

Date            Describes the date the document was first saved. It is automatically assigned when the document is first saved.

*               When a start shows in between the date and the document name, it means the document is an outstanding one.

                To set a document as outstanding, click on the date and then press the space bar.

                The outstanding documents window is accessed from the main menu.

Document This column shows the document name, which we can edit by clicking on it.

Size            It shows the document size on disk.

## Buttons

### *Add*

This button opens a dialog box where we can navigate our computer in search of the document we want to incorporate to the aircraft record.

Remember that uploading documents is usually much slower than downloading them.

### *View*

On clicking this button, the document will be downloaded and executed its viewer.

Same result is achieved by double-clicking on the document.

Remember that a document always needs a viewer to be opened, and that this application must be installed in the computer where we want to reproduce the document.

For instance, if the document is an Excel workbook, and the computer where we ask to open the document from does not have the Excel application installed, the action will lead to an error message.

### *Delete*

On clicking this button, the document will be removed from the database.

# Unavailabilities

This tab allows reporting the times when aircrafts are not available.

This information will be visible in the Planning Pro window and also in the WebApp



Aircraft availability is set according to the three states of the 'Available' check-box locates at the upper right corner.
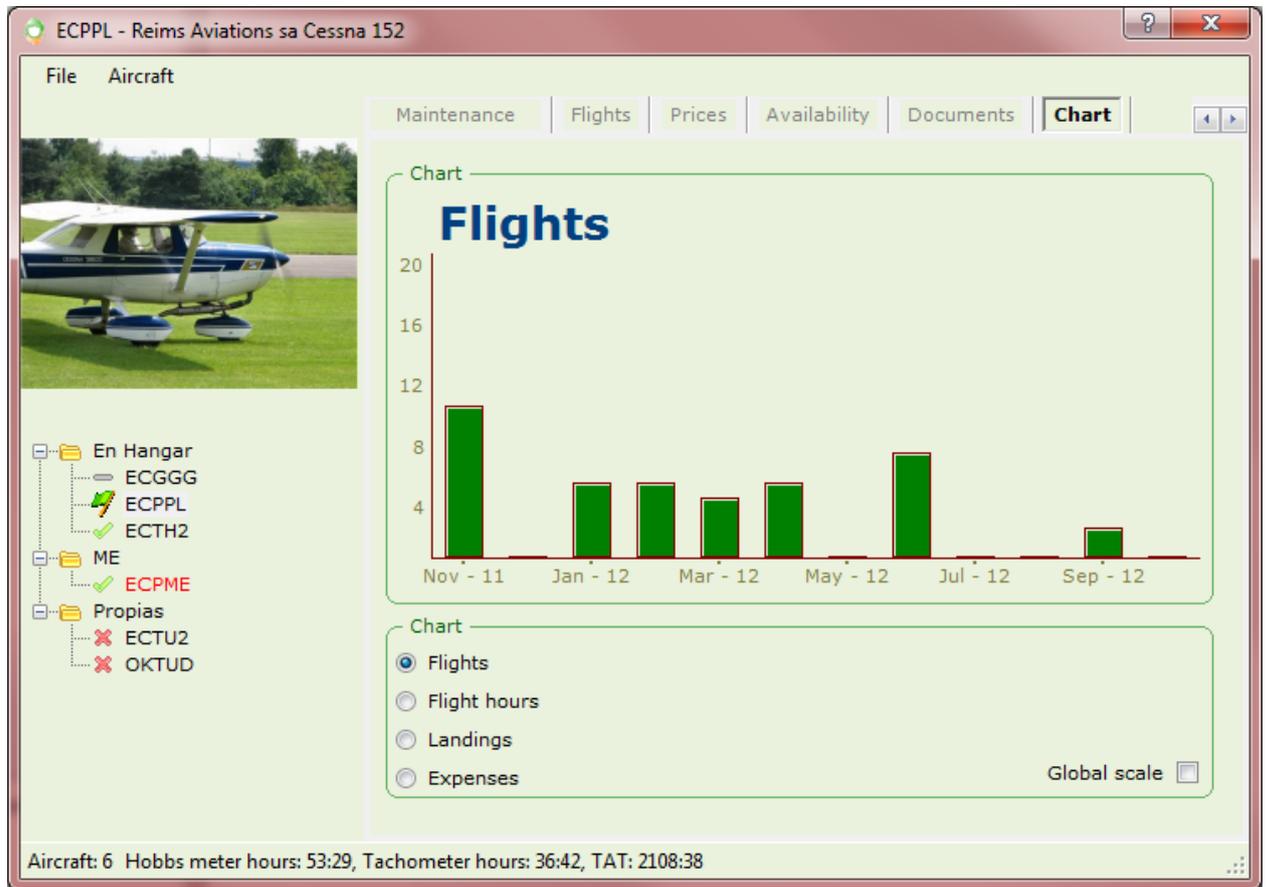
The check-box is cleared, means that the aircraft is never available.

When checked, the aircraft is always available.

When shaded, the aircraft is not available only at the times set in the grid.

# Charts



This tab shows several aircraft variables throughout last year in graphic mode.

When 'global scale' is checked, the Y axis will be the same for all aircrafts, so that all charts will be directly comparable.