Quick Start Manual

User Guide

Version 6

www.avplan-efb.com

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1. INTRODUCTION

AvPlan EFB is the premier portable flight planning and electronic flight bag for the Apple iPad and iPhone for Australian pilots.

AvPlan EFB allows you to perform all pre-flight planning activities including:

- Download and save copies of all aviation maps, ERSA, DAP and AIP. These are then available to use when there is intermittent/no network access.
- Prepare a flight plan, download and incorporate winds and then submit the plan via NAIPS to Airservices Australia. AvPlan EFB incorporates the functionality to sync your plans and aircraft between your various Apple devices.
- Download and save weather briefings, PRD status and other NAIPS related information.
- Prepare an aircraft loading plan and view the weight and balance envelope.
- Add, delete and share custom aircraft profiles.
- Determine the optimal altitudes for your flight.
- Inbuilt help function.

In flight AvPlan EFB can be used as an electronic flight plan, greatly extending the Electronic Flight Bag concept. The AvPlan EFB App can:

- Calculate departure, arrival times for all waypoints based on actual arrival times plus forecast winds.
- Display aircraft routing and current location on all maps and airport diagrams and approach plates.
- Log and display aircraft track on all maps, airport diagrams and approach plates.
- Quickly display status of PRD areas.
- Provide easy access to ERSA and DAP information.
- Provide rapid access to emergency ERSA pages.

1.1 Help

AvPlan for iPad incorporates an inbuilt quick-tip system. Tap the **Life Belt** icon on any screen for tips on where to find AvPlan functionality.

1.2 Getting AvPlan EFB, licensing and subscriptions

The App is available with a one month fully featured free trial via the Apple App Store (http://itunes.apple.com/au/app/avplan/id417674282?mt=8). The app is then sold on a subscription basis. There is a compulsory STANDARD (VFR) subscription, and then an IFR and/or PRO upgrade pack(s) can be added.

Subscriptions purchased inside the App will not automatically renew at the completion of the subscription period.

Subscriptions purchased via www.avplan-efb.com can be set to automatically renew if selected at the time of purchase.

Note: Subscriptions are valid for a single pilot on a maximum of three devices.

The AvPlan EFB VFR STANDARD subscription enables use of the app, with the AIP, ERSA and VFR maps available (VTC, VNC, WAC, ERC Low and PCA). At the completion of the subscription period the app will no longer function.

The IFR Upgrade adds the DAP and IFR Charts (ERC H, ERC L, TAC).

The PRO Upgrade adds geo referenced airport taxi diagrams and instrument approach procedures. These show your aircraft location, flight plan route and stored ground track. These charts can also be overlaid on the Mega charts.

Optionally, a subscription to the AOPA airstrips guide or the FlightAce® Country Airstrips Guide can be purchased. AOPA provides a text-based information enhancement for many airstrips (large and small), and is largely pilot-sourced information. The Country Airstrips Guide is a professionally collated data sheet by FlightAce® for many small ALAs. Each one has a mud-map and a standardised set of data fields.

1.2.1 Activating a subscription

Subscriptions can be purchased either within the app, over the phone, or from www.avplan-efb.com. To activate a subscription purchased via the website:

1. Press **Login Details** on the opening window.
2. Enter the email address and password used when purchasing the subscription.
3. Press **Sign In** under your password. NOTE: If you haven't registered your email and password yet, tap **Sign Up** instead. A confirmation pop-up will appear when successfully signed in.
4. Press the **Back** icon.

If AvPlan EFB is already running, tap **Settings > User Settings > Username** and sign in using the procedure above. You can also reset or change your password here, too.

AvPlan EFB Website:

1. Navigate to the AvPlan EFB website using your favourite browser and select the <**Store**> option from the list of options along the top of the home page.

2. Scroll through the list of options to find the subscription(s) you require. To select the subscription, press the grey **Add to Cart** button to the below the subscription type.

3. Once you have made your selection press the **Checkout** button to the right of the Store webpage. Review your selections and amend as required. **PayPal** is the only payment option that allows recurrent payments. If you wish to pay via a credit card you can do so by selecting the **Pin Payments** option, or phoning AvPlan EFB directly (see website contact details).

> **Note:** If you are not already logged into the website, you will be asked to login before you can complete your purchases.

The new renewal end date will be 12-months from the current subscription end date or the corresponding period from the purchase date. Whichever is the latter.

1.2.2 Getting an AvPlan EFB Username

You can get an AvPlan EFB username (which is your email address) via the AvPlan EFB app or via the AvPlan EFB website. Once you have your username configured you can use it to synchronise all of your AvPlan devices.

If you don't have a username already you will be prompted to register when you first attempt to make a subscription purchase from the AvPlan website. In the Register section of the webpage simply enter your preferred email address and a memorable password, press register and your done.

From the AvPlan EFB app, select the **Settings** control followed by the **User Settings** and **Username** list options (in that order) where you will be presented with the option to Sign Up and Reset your password (For iPhone user insert and press the **More** control before **Settings**. As with the website enter your preferred e-mail address and a memorable password, press the **Sign Up** control and you're done.

> **Note:** As with any username and password, if you are going to write it down, put it in a secure place that you will remember.

1.3 User Manual

A copy of the AvPlan EFB User Manual can be downloaded from the AvPlan EFB website for installation on your AvPlan EFB devices. The following link with take you to the download page for the current AvPlan EFB version user manual:

www.avplan-efb.com/avplan/avplan-user-manual/

To download the manual to a device ready for installation in **iBooks**, simply follow the instructions below:

1. Using the Safari browser that comes installed on your iPad or iPhone device, Navigate to the manual on our website using the link specified above.
2. Tap on the link to download the file.
3. Tap on the page and a bar will appear, with an icon, **Open in iBooks.**
4. Tap **Open in iBooks** and the manual will be installed into **iBooks.**

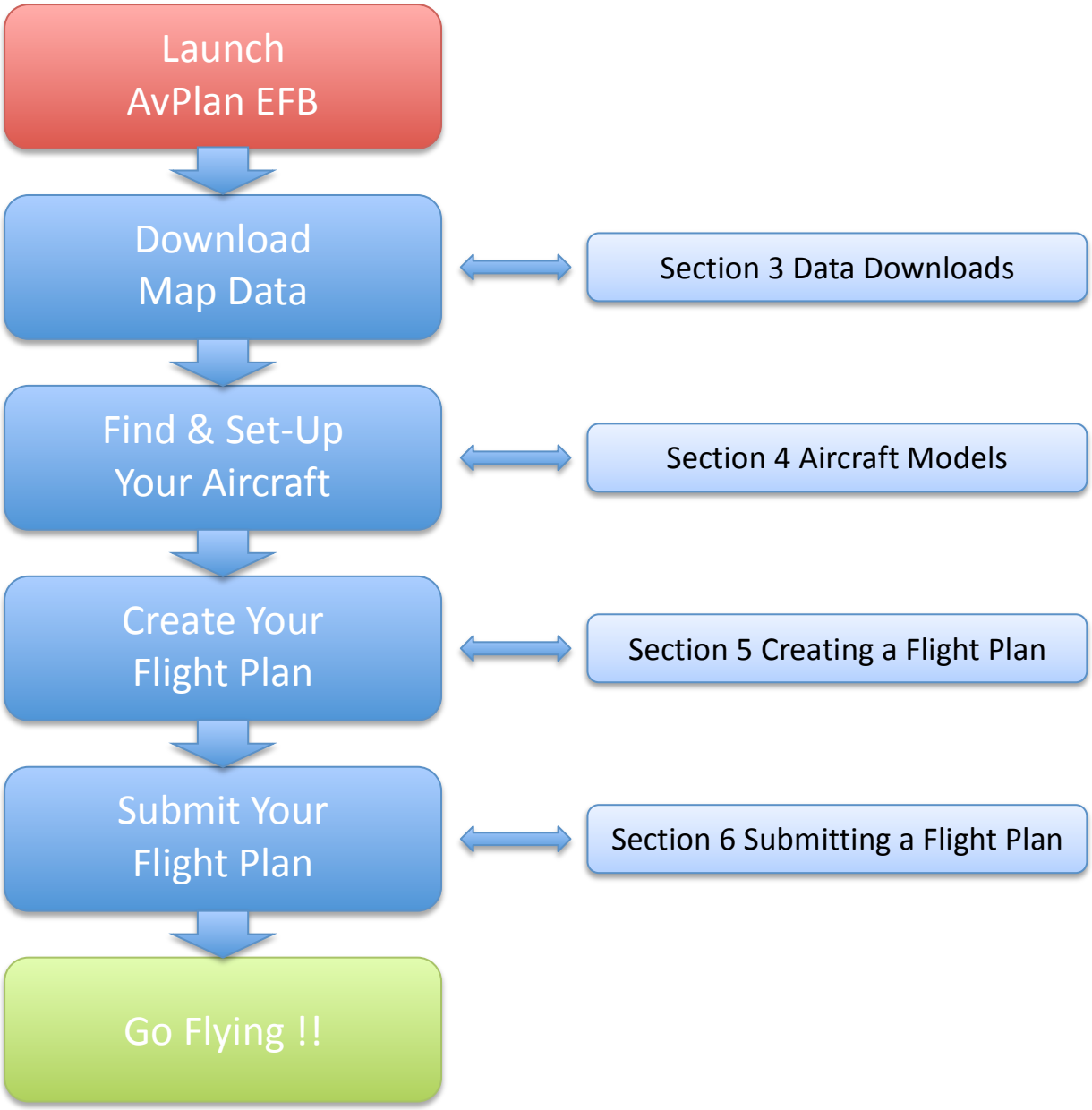
The user manual is also available under the Text pane within AvPlan EFB

Note: The **Open in iBooks** option only displays if **iBooks** is installed. You can download **iBooks** for free from the iTunes app store

2 GETTING STARTED

OK, the app is installed and you wish to go flying. What do you need to do next? Navigate your way to the device screen with the AvPlan EFB icon and launch the App. Once it's up and running you're ready to start the setup and flight planning process.

In a nutshell, all you need to get up and running with AvPlan EFB is to perform the following steps.



OR, in a little more detail:

1. Tap the **Settings** control at the bottom right of the display followed by the **Data Downloads** option from the list of options displayed.
2. Download the maps and ERSA/DAP files you need. For example, if you will be flying through Queensland Australia, tap on Queensland in the map of Australia displayed, then select Download. The download will then start. Downloads are discussed in more detail in section 3. DATA DOWNLOADS.
3. To setup your aircraft, select **Settings** and then **Aircraft Type Database**
   a. Check if your aircraft type is in the database by scrolling through the list of aircraft types. If your aircraft type is there, tap on the **Aircraft Type** and then **Add New Aircraft.** Assuming the aircraft is the exact same type, complete the aircraft specific information and you're done.
   b. To create your own **Aircraft Type,** tap on the **+** symbol and complete **Basic Performance.**
4. Create your flight plan. The steps to create your flight plan are straight forward and detailed in section 5. CREATING A FLIGHT PLAN.
5. Assign your aircraft to the Flight Plan and configure the weight and balance.
6. Submit your flight plan.
7. Go flying!

2.1 Support

Support enquiries, contact support@avplan-efb.com

General support information is also available at:
www.avplan-efb.com/about-2/

FAQs are available at:
www.avplan-efb.com/avplan/faq/

Contact Details

US: +1 614 586 1711

AU: +61 3 8370 3024

NZ: +64 9 801 1084

2.2 Notice

Information contained in this manual is subject to change without notice.

AvSoft reserves the right to make changes to specifications and/or procedures without notice.

3 DATA DOWNLOADS

The **Data Downloads** page allows charts (applicable for your subscription) to be downloaded and saved on your device for offline use. To access to the data downloads section of AvPlan EFB press the **Settings** control at the bottom right and select **Data Downloads** from the list of settings options displayed.

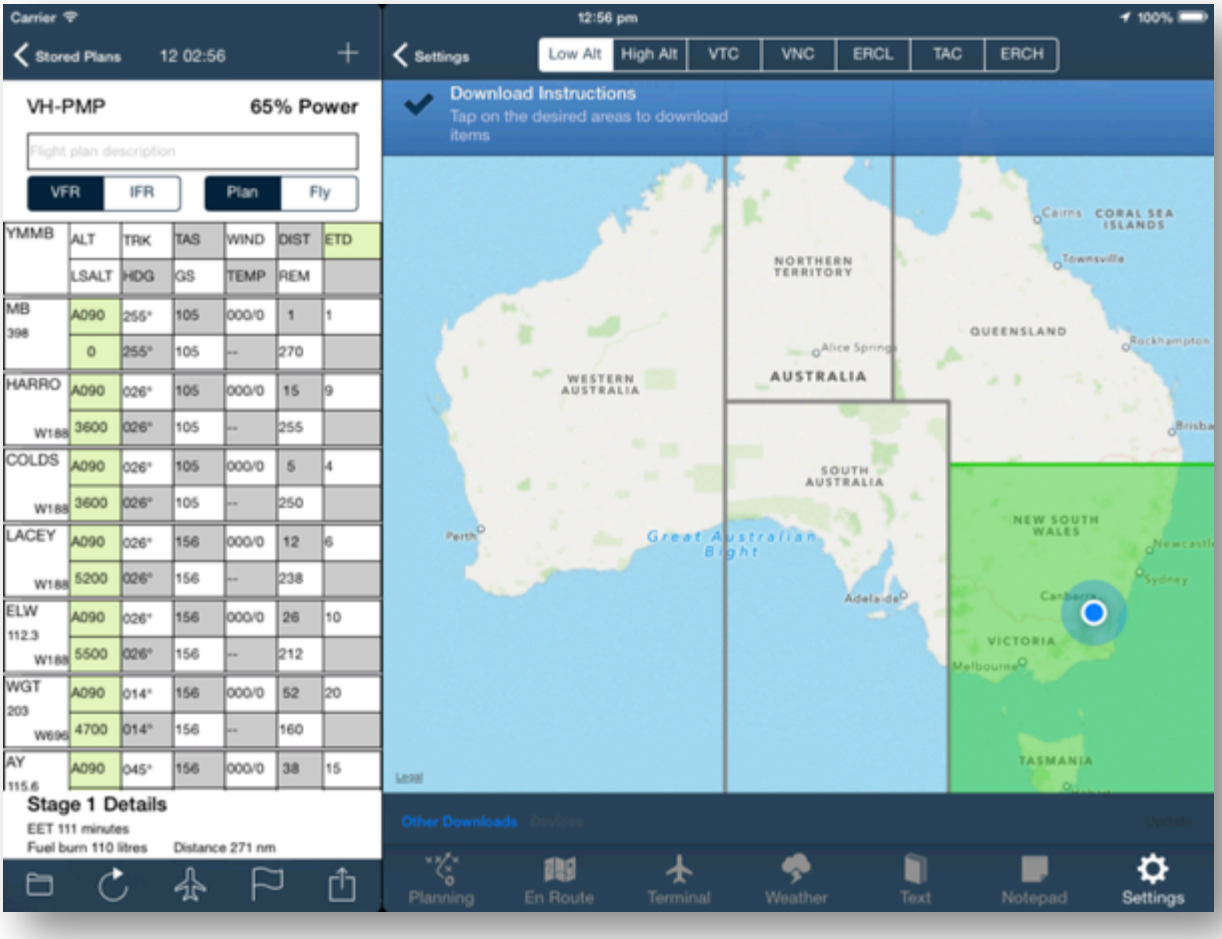


Figure 1 – Data downloads page

- To download the **Mega Maps, ERSA** and **DAP** pages, tap an area corresponding to where you plan to fly on the map, then select **Download**. This will download and save all of the required information for that area. When complete, the region will turn green (as seen above).
- By default the individual VTC, VNC, ERC L, WAC charts are not downloaded as these are all contained in the MegaVFR and Mega IFR Enroute Low charts.
    - If you wish to download these charts as well:
        - Tap the map type selection at the top of the page (VTC, VNC etc).
        - Tap on the box(es) for the charts you wish to download and select **Download**.

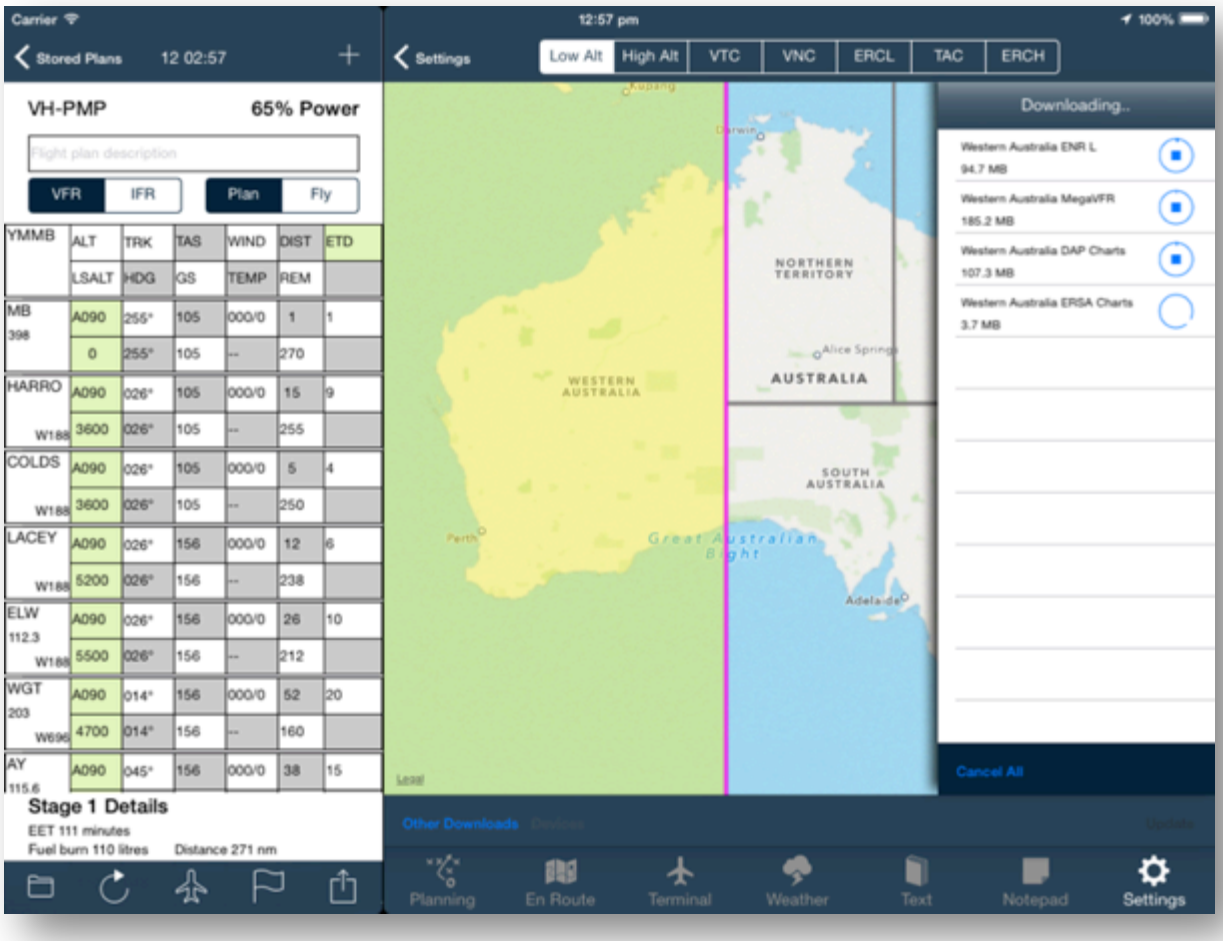


Figure 2 – Downloading page

Depending on the current download status, the colour of the area changes:

- **Clear** when no data has been downloaded.
- **Yellow** when the area is being downloaded.
- **Orange** if the area is only partially downloaded.
- **Green** when all information in that area has been downloaded.

When new data is available, the **Update** icon at the bottom of the screen turns red.

- Tap this icon to download new data for all areas previously downloaded.
- To cancel a download in progress, tap **Cancel All.**
- To hide the **Current Downloads** view, swipe the window to the right.

AvPlan EFB will continually prompt you to update if a region is not fully downloaded. To stop this occurring, the region must be **deleted**. Once it has been deleted, you will not be prompted to update it again.

3.1 Deleting an area

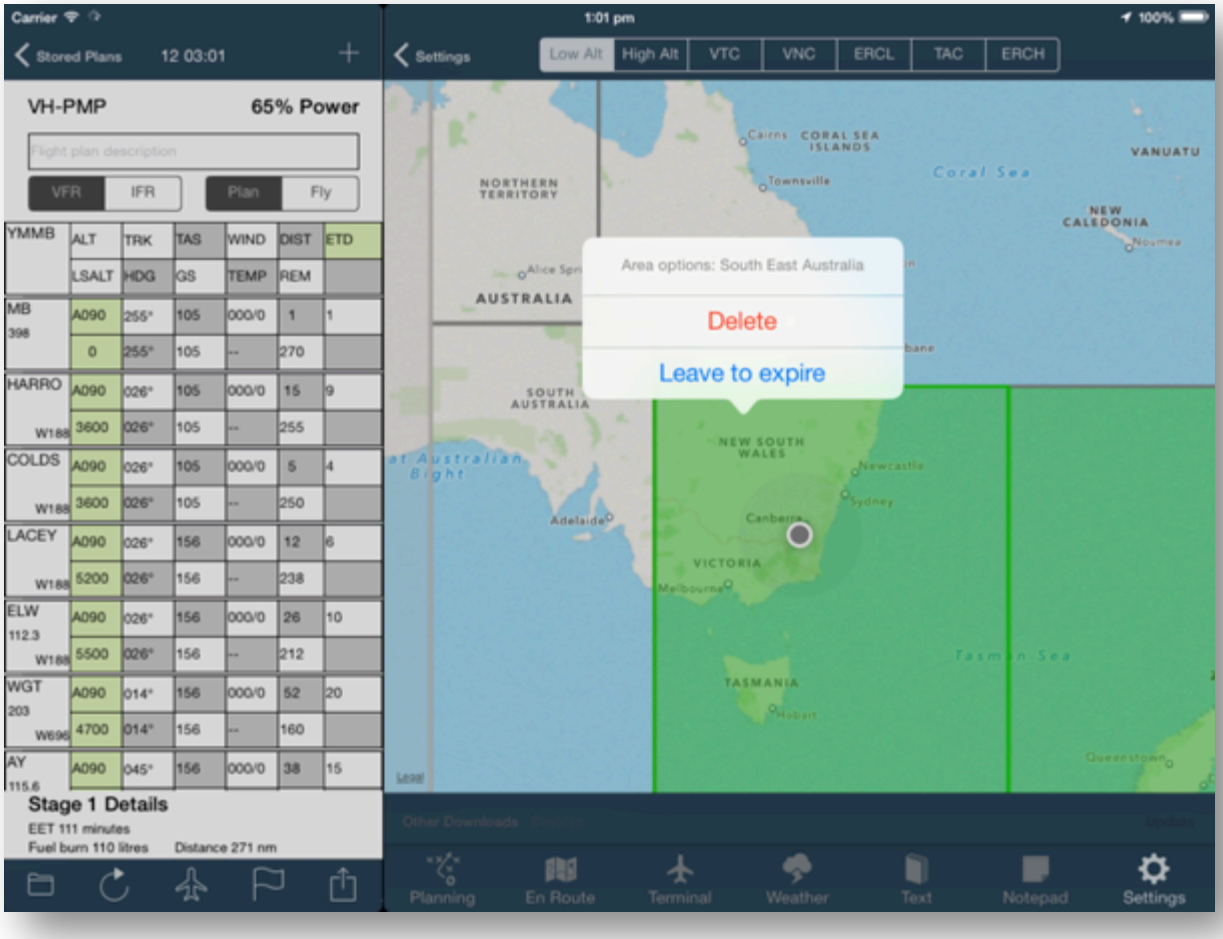


Figure 3 – Delete pane

1. To delete a section, tap on the area. As depicted in Figure 3 above, you will be prompted to select from the following delete options:
    - **Delete Now** will delete the area from your device.
    - **Leave to Expire** will keep the data on your device until it expires, then delete it at that time. This area will not be downloaded again when you tap **Update.**
    - To dismiss the deletions menu simply tap on the screen anywhere outside of the prompt.

3.2 Other downloads section

The **Other Downloads** at the bottom left of the data downloads section allows individual maps to be downloaded and data maintenance tasks to be performed (see section 3.4 Maintenance section below). Other downloads include:

- Planning chart
- Terrain (is downloaded automatically)
- Individual WAC charts
- Documentation (ERSA GEN, AIP, DAP GEN [if applicable])
- 1:250,000 Topographical charts

3.3 Download Sync

AvPlan EFB can download maps and send them to other devices.

To use Download Sync:

- Have all devices connected to the same Wi-Fi network and go to the Download page (**Settings**, **Data Downloads**) on all devices.
- Tap **Devices**. Select the other local devices you wish to sync downloads with from the list displayed in the pop-up.
- You can push all downloaded data from one device to another by tapping Devices, selecting the device and tapping Send All Data.
- To pull data from another device, tap the desired area and select download. If that data is available on a nearby device, it will be selected in preference to downloading from the internet.

3.4 Maintenance section

The maintenance section at the bottom of **Other Downloads** provides options to manage the data downloaded and generated by AvPlan EFB while in use. The maintenance options available include:

- **Delete old data** deletes all expired maps and ERSA/DAP pages from your device.
- **Delete all flight plans** deletes all your saved flight plans.
- **Download NavData** updates the navigation database. Any user LSALT's and user waypoints are preserved.
- **Delete all forecasts** deletes all saved forecasts from your device.
- **Delete all track logs** deletes all track logs associated with your flight plans.
- **Delete all saved data** deletes all saved ERSA/DAP and map pages from your device.

4 AIRCRAFT MODELS

AvPlan EFB has the capability to support any number of aircraft types. Detailed performance profiles can be created and applied to any operation. AvPlan EFB also supports weight and balance calculations.

The App has a concept of aircraft models, and then individual aircraft of that model type.

Aircraft types are a particular aircraft that share performance and loading characteristics. These may be aircraft of a particular model type, year. For example: (C172R, V35B Bonanza, TBM-850 etc.). An aircraft has a single set of performance characteristics, loading scheme, etc.

An individual aircraft can then be created from an aircraft type. This has a distinctive callsign, weight, empty arm, avionics, etc.

Examples of types and aircraft are available upon installation. You can use these as a guide when creating your aircraft models.

See the online aircraft model database for more types at:
http://www.avplan-efb.com/avplan/aircraft-model-database/

4.1 Accessing the Aircraft Type Database

To access the Aircraft Type Database action press the **Settings** control at the bottom right of the display. Now select the **Aircraft Type Database** option from the list of available settings options. AvPlan EFB will display a list of common aircraft types that you can use to setup your own aircraft.

The list is not exhaustive as there can be many subtle variations in the configuration and models of aircraft flying. If you cannot find the aircraft type you are looking for, you can go to the on-line database detailed above where you can locate and import other aircraft types.

The import operation will import the selected aircraft directly into AvPlan EFB. Once imported locate the aircraft type and tap on the list entry. Add the details for your specific aircraft and you're ready. See section 4.2 Adding your aircraft for further details.

To create your own Aircraft Type Database, tap on the + symbol and complete Basic Performance. For further information on creating unique aircraft type refer the AvPlan-EFB User Manual.

4.2 Adding your aircraft

When you have located your aircraft type or imported the aircraft type from the AvPlan EFB website you can now specify your own aircraft. To add your aircraft follow the steps below:

- Select the appropriate aircraft type in the **Aircraft Models** view.
- Select the **Add new Aircraft** option from the **Edit Aircraft Type** view.
- The **Edit Aircraft** view will appear. This enables various details about the aircraft to be set such as colour, avionics, hourly rate, empty weight and arm to be set. Enter the detail as available, e.g. aircraft callsign as minimum.
- The aircraft can now be assigned to your flight plans.

Note: Aircraft entries can also be created during the flight planning process by pressing the aircraft icon at the bottom of the flight-planning pane and then pressing the **Add Callsign** control in the top right of the popup Aircraft list.

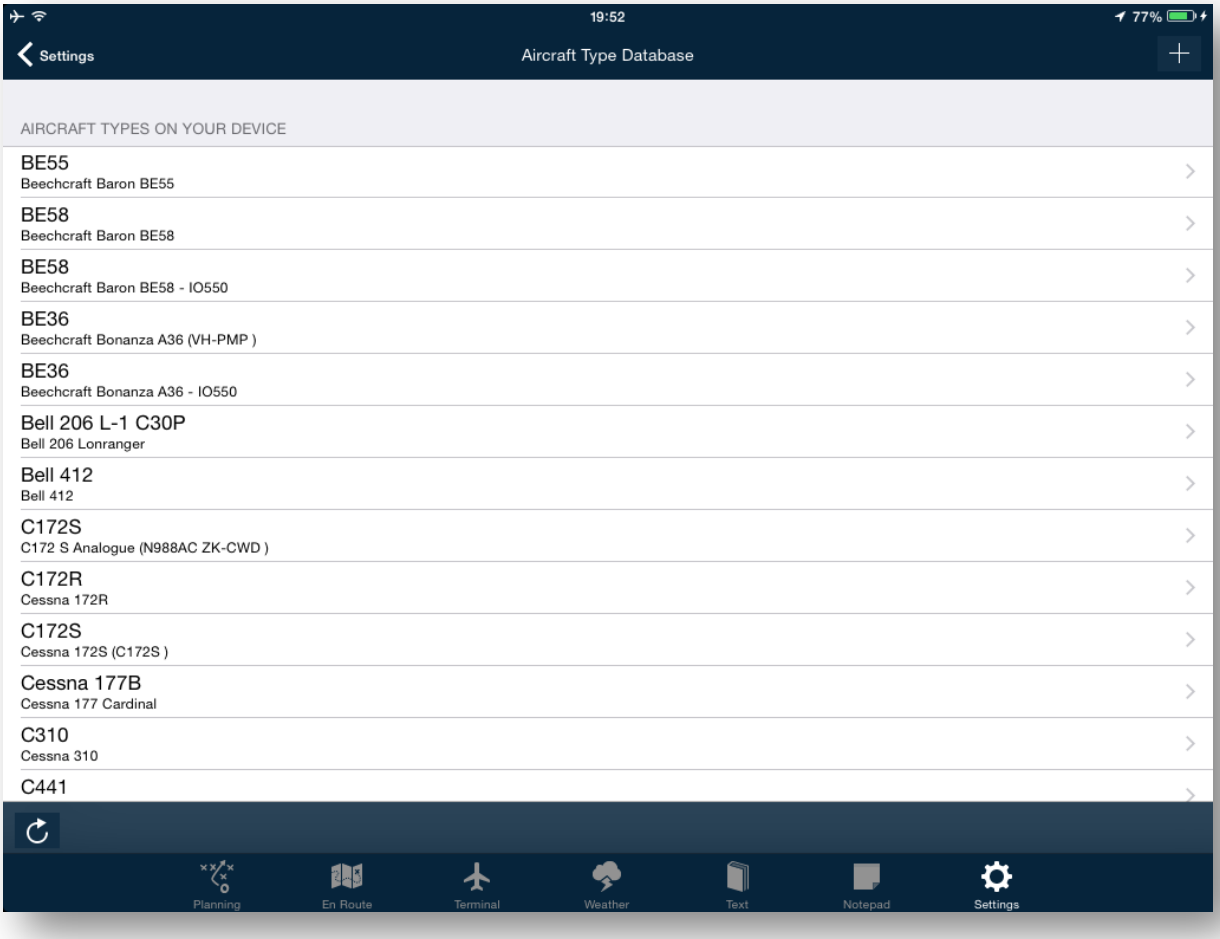


Figure 4 – Select aircraft view

4.3 Basic performance

For more advanced flight operation or to obtain more detailed information about your aircraft you can access the various aircraft characteristics associated with each aircraft type.

The **Basic Performance** section allows you to review and or update information about the aircraft type and its operating environment. The information is divided into the following sections:

The **Type Information** section contains descriptive information about the aircraft type. Information includes:

- Type Name.
- ICAO Type Name (Required when submitting a plan to your ANSP).
- Description.

- Performance Category.
- Wake Turbulence Category.
- POH web link.
- Is this aircraft a helicopter?
- The icon for the aircraft

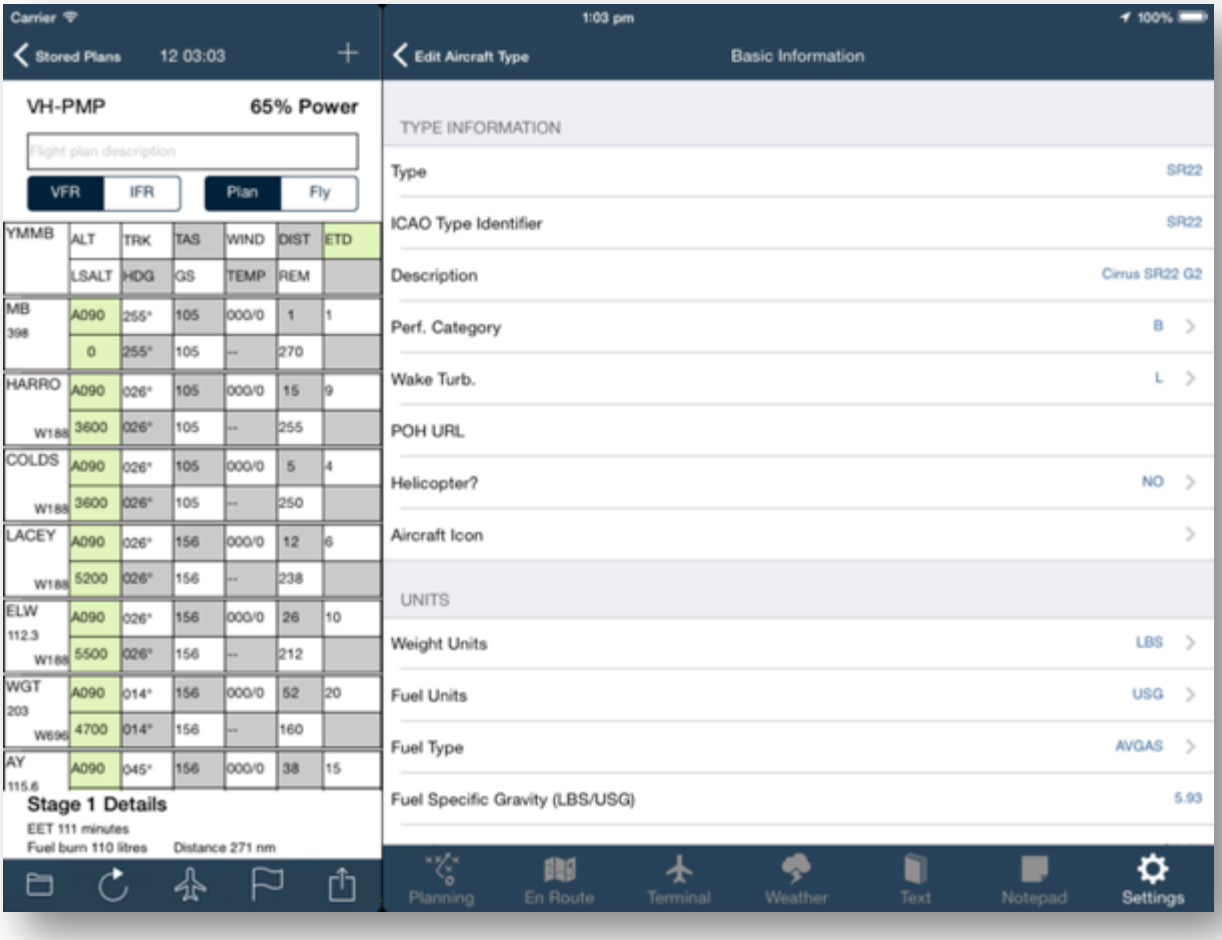


Figure 5 – Basic information

The **Units** section allows various units for data entry to be selected. These can be changed with data automatically updating. The details from the POH can be entered in Pounds and USG, and then the units changed to KG and Litres for Australian use.

The **Weights** section details the operational weight characteristics for the aircraft type. The values include:

- Maximum Take-Off Weight (MTOW)
- Maximum Landing Weight (MLW)
- Maximum Zero Fuel Weight (MZFW)

The **Basic Performance** section details the performance characteristics for the aircraft type. The basic performance information allows a generalised performance model to be entered. Performance information includes

- Cruise TAS
- Climbing IAS
- Climb Fuel Flow
- Cruise Fuel Flow
- Holding Fuel Flow
- Fixed Reserve Fuel Flow
- Rate of Climb
- Rate of Descent
- Total Fuel
- Service Ceiling
- Glide Ratio
- Glide IAS
- Minimum Runway Length.

4.4 Weight and Balance

Before any flight you will need to consider the weight and balance aspects of the flight. The Weight and Balance characteristics for the aircraft type are defined under the **Weight and Balance** section of the **Edit Aircraft Type** pane. The standard weight and balance data for an aircraft type is included with each type, but if necessary it can be updated through the weight and balance pane.

> **Note:** Aircraft weight and balance details are required for the AvPlan EFB planning weight and balance functions to operate.

5 CREATING A FLIGHT PLAN

The process of creating a basic Flight Plan is very straightforward in AvPlan EFB. Once the relevant navigation data has been downloaded and you have added your aircraft details, the next step in the process is to planning your flight.

5.1 Creating a plan

On the left side of the display is the **Stored Plans** pane. The various legs and stages of your flight plan will be displayed in this pane as you build your plan. Follow the steps below to build a simple VFR flight plan ready for submission to your ANSP.

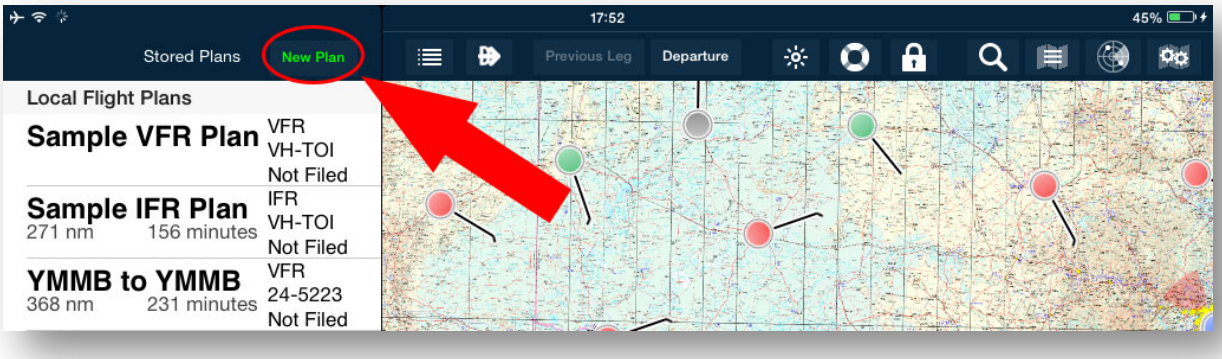


Figure 6 – Add a new flight plan pane

1. Press the **New Plan** button at the top right of the Flight Plan pane. The pane details will change to show the initial flight plan settings.
2. Enter some descriptive text in the **Flight Description** (optional).
3. Make sure the **En Route** (map) planning pane has been selected, as this is where the flight planning work is performed. You are now ready to select your departure airport.
4. Locate the departure airport on the **En Route** pane. You can use drag and pinch gestures to move and zoom in and zoom out the map.
5. In the immediate area of the map where the airport is located, press and hold. A popup will be displayed that contains a list of all of the Airports, Navaids and Waypoints in the immediate geographical vicinity of the press. As this is your departure airport, locate the airport in the list and press the **+** control to its right. The selected airport will appear in the Flight Plan pane on the left.
6. Next select a destination airport. As in step 4 above; locate the destination airport on the En Route pane. Once located, press and hold. A similar popup will be displayed, but this time it will be populated with information relative to the geographical area of where you pressed.
7. Locate the destination airport in the list and press the **+** control to the right to select. AvPlan EFB will respond with another popup giving you route selection options. From a simple VFR

perspective and as an easy first example, select the **Fly Direct** option at the top of the popup by pressing the **+** control to the right of the option.

5.2 Your first simple VFR flight plan is complete. A direct route from the departure airport to the arrival airport. Inserting waypoints (in a leg)

Quite often the process of flighting from A to B may be more of a navigation exercise due to the need to avoid certain areas or because you wish take a more scenic route. In these instances you will need to construct a routing that will fly you past the obstacles or along the routing of your choice.

Using the simple VFR flight plan created previously, lets now insert a Way Point which changes the plan from a Direct To routing to one that includes multiple legs.

1. Press and hold the red line between the departure and arrival airports on the map.
2. A light blue circle will appear around your finger. The line will follow as you drag the line to the point you wish to fly over. Release when over the desired point.
3. A popup will appear with a list of navigational points in the immediate geographical area. Locate and select a waypoint from the list displayed by selecting the **+** control to its right.

> **Note:** The navigational aid options are 30nm from where you have selected.

4. You can repeat the above steps as many times as required to create the routing required. You don't have to select only waypoints for your routing. It can be based on other navigational aids pr even create your own waypoints as appropriate.

5.3 Adding additional stages to your Flight Plan

After landing at one airport you may wish to continue onto another, i.e. create second and subsequent stages in your flight plan. Adding additional stages is an extension of the actions performed in the previous flight planning steps. To add extra stages follow the steps below.

1. Firstly, on the **Flight Plan** pane, press on the airport code field of the last destination airport in your flight plan. In response, the **Terminal** pane will replace the **En Route** pane to the right.
2. In the top right of the **Terminal** pane press the **New Stage** control. The control will change colour to show it has been selected and a **Stage Details** indicator will be added below the last destination airport in the **Flight Planning** pane on the left.

3. Return to the **En Route** pane by pressing the **On Route** (map) icon at the bottom of the display. Locate the next destination airport and press and hold in the relative location of the destination airport.
4. A popup will appear with a list of airports and navigational aids in the immediate geographical area. Locate and select the next destination airport from the list displayed by pressing the **+** control to the right. The routing from the previous airport to the new destination airport will be listed in the Flight Planning pane as well as displayed in the **En Route** pane.
5. You can repeat the steps for adding legs and stages as many times as required to create the desired route. With all stages and their respective leg details complete you can move onto the final stages of flight plan creation.

5.4 Adding your aircraft to the flight plan

To assign your aircraft to the flight plan, press the **Aircraft** icon at the bottom of the **Flight Planning** pane. On the popup list displayed, locate your aircraft and select it by tapping the associated row in the popup. In response the aircraft callsign will be displayed in the top left of the Flight Planning pane. AvPlan EFB will automatically select the last aircraft used in a plan upon starting a new flight plan.

5.5 Entering an altitude

During flight planning, altitude information can be entered. When entered, AvPlan EFB will calculate the various TAS and time intervals. Altitudes will auto-fill down the rest of the plan when in **Plan** mode.

To enter altitude information select the green cell in the top left corner of the leg and enter an altitude value.

> **Note:** If the weather has changed since you last entered details, the **Weather Forecast** window will appear.

Figure 7 - Entering a cruise altitude

5.6 Entering departure times

One of the final steps in the process is adding an estimated departure time for the initial flight stage and subsequent flight stages. This is performed via the list of flight stages in the Flight Planning pane. To add the flight plan **ETD's** follow the steps below.

1. To set an estimated departure time for your flight, tap the green field marked **ETD.** This must be in the format HHMM or DDHHMM.

   Note: All times are in UTC.

2. After you've entered your estimated time of departure, the App will automatically calculate your ETA.
3. Repeat these steps for each **Stage** of the **Flight Plan.**

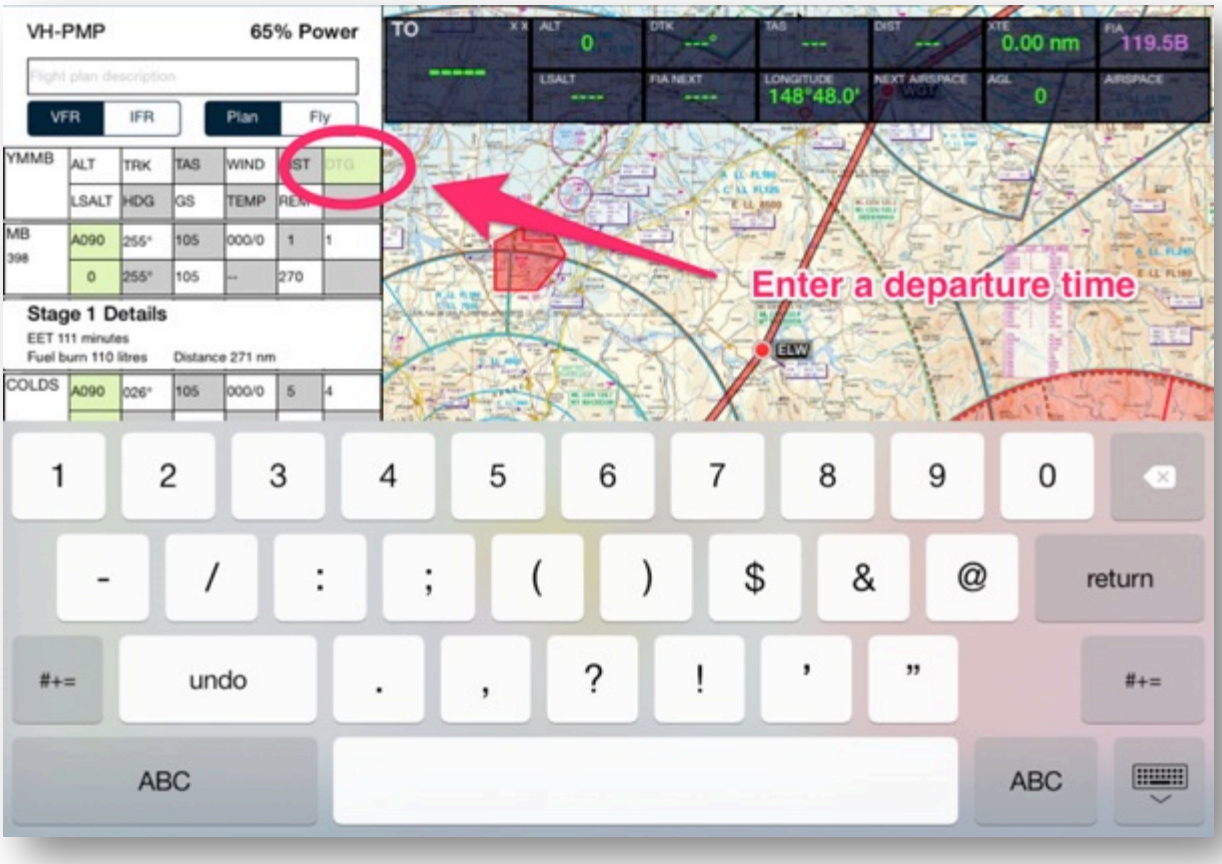


Figure 8 – Enter a departure time view

5.7 Weight, Balance and Fuel

The final step of the flight planning process is to configure the Weight and Balance aspects of the proposed flight along with calculating the Fuel requirement. These steps are completed via the AvPlan EFB **Weight and Balance** pane. The **Weight and Balance** pane is accessed as follows:

1. Tap on the **Planning** icon on the right pane of the AvPlan EFB display. The **Planning** pane will be display with a list of planning option to choose from.
2. Select the **Weight and Balance** item from the list to display the Weight and Balance configuration settings.

5.7.1 Fuel Planning

On the right side of the **Weight and Balance** pane in the **Fuel Planning** table. Using the aircraft type assigned to your flight plan, AvPlan EFB will calculate the fuel requirement for the flight plan and populate the table with the fuel requirements for the various phases of the flight.

The **Fuel Planning** table also facilitates the entry of **Holding** time and fuel allowances for **Holding** and **Approach**. Enter values as appropriate based on known conditions of experience.

> **IMPORTANT:** The fuel **Margin** MUST be greater than **Zero.** This ensures that you have enough fuel for your flight.

5.7.2 Weight Loading

The weight and balance requirements vary from aircraft type to aircraft type. Variations in passenger capacity, cargo storage and their respective configuration need to be taken into consideration. The example weight configuration discussed below is a very simple example. Given that this is such a broad subject it is not possible to consider all of the possibilities in this document.

In the bottom left corner of the **Weight and Balance** pane is the **Loading** table for your selected aircraft type. In the **Load** column add the weight values for the respective fields considering the seating of the persons on board and the placement of any cargo/luggage. As a guide, the maximum designated load values are displayed to the left of each load item.

5.7.3 Adding persons on board

Enter the number of **Person of board** in the **Weight and Balance** pane by entering the corresponding number in the green field to the right of the label.

6 SUBMITTING YOUR PLAN

On completion of your flight plan and in anticipation of your flight, submit the flight plan to Airservices.

1. To send your flight plan details to NAIPS, tap the **Submit Flight Plan** (in-box) icon.
2. The first time you submit a flight plan, enter your Name, Contact details and NAIPS Username and Password.
3. Scroll down the page and tap the **Submit** button**.**

> **Note:** An **Error Notification** window will appear if any flight plan data is incorrect.

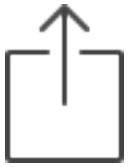
Common errors include:

- **Invalid endurance** – Check fuel load on the **Weight and Balance** page.
- **Invalid ETD** – Check and re-enter departure time (it may be the wrong day if it was entered over 24 hours ago).

6.1 Printing your plan

As a backup, you may wish to print you flight plan. To print your plan, follow the steps below.

1. Select the **Planning** icon at the bottom of the right hand pane to display the list of planning options. Select **Print/Send**. Print possibilities include:
    - Flight plans.
    - Blank plan forms.
    - Load sheets.
    - Area Forecasts.
    - NAIPS submission verification.
    - Weather forecasts.
    - SPFIB Briefings
    - ERSA/DAP pages for each leg in the active flight plan.



2. Tap on the documents you want to print. A green tick will appear on the documents you've selected.
3. Tap on the **Send** icon in the top-right-hand corner of the screen to display the list of sharing options. Options include:
    - Email
    - Print
    - Send to App.

7 Go flying!

7.1 Transitioning from planning to flying

After you've prepared your flight plan, it's time to go fly it.

- Upon starting up your engine and awaiting the temperatures and pressures to stabilize, set the app to **Fly** mode. This will log your *Off Blocks* time and begin logging your aircraft's track.
- At the correct moment of your choosing (it may differ between VFR and IFR pilots), tap the **Departure** button along the top of the En Route or Terminal panes. This will log your actual *Departure* time, and will be displayed in bold within your flight plan.

> - Note: Tapping the Departure button will also set the plan to *Fly* mode if it hasn't already been set.

- Now your flight plan is *active,* and your *flight plan* now effectively also becomes a *flight log.* You will notice a *TO* field entered between your previous and next waypoints within the list. This contains live GPS derived data, and you can easily compare between planned versus actual performance. If actual enroute winds turn out to be vastly different from those predicted in the Area Forecast(s), you'll be able to spot it quickly and easily. The flight log now becomes a powerful decision making tool.
- If you are busy during startup and taxi, and you don't get a chance to tap Fly or Departure, AvPlan EFB will do those steps for you when you climb 100 feet above and depart beyond 3 NM of your departure airport. The Departure time noted won't be as accurate as when the pilot taps the Departure button at the correct moment, but at least it will be close.

> Note: This feature requires two settings within *Settings* > *User Settings* to be in place:
>
> - *Waypoint auto sequencing* must be **ticked**
> - *Disable moving map mode* must be **un-ticked**

- Each time you pass a waypoint within the flight plan/log, the TO field will move down the list of waypoints accordingly. When moving from one leg to the next, your Actual Time of Arrival (ATA) is logged.
- If you are unhappy with the auto-sequencing, you can use the *Previous Leg* or *Next Leg* buttons as many times as necessary to manually cycle through to the correct leg.
- Tapping the name field (large white box on left edge of flight plan entry) of an airport within your flight plan is a handy shortcut to the Terminal pane information about that place.
- AvPlan EFB will automatically sense when you land. Once you've taxied back to the parking area and shut off the engine, tap the **Plan** button. This will log your *On Blocks* time and cease track logging.
- Review the overall times for entry in your logbook by visiting **Planning** > **Log Flight**.

7.2 Accessing terminal information and ERSA pages

While you're in the air, the next most important information you'll need to access is the ERSA pages for the airports in your flight plan.

The easiest way to do this is to tap its corresponding line in the flight plan/log. This will open the Terminal pane to that place, allowing you to gather information like radio frequencies, METARs, TAFs, NOTAMs and much more.

To access ERSA pages, simply swipe the screen from right-to-left.

7.3 Post flight

After your flight, you can place your plan back in the list of Stored Plans by tapping < Stored Plans button above the flight plan/log.

This will save your flight plan and any associated details – your flight times, tracks etc.

If you no longer wish to keep that particular flight plan, simply swipe it's listing in Stored Plans from right-to-left. This will reveal a Delete button. Tap it to delete the flight plan.

8 USER SETTINGS

To access to the User Settings section of AvPlan EFB press the **Settings** control at the bottom right and select **User Settings** from the list of options displayed.

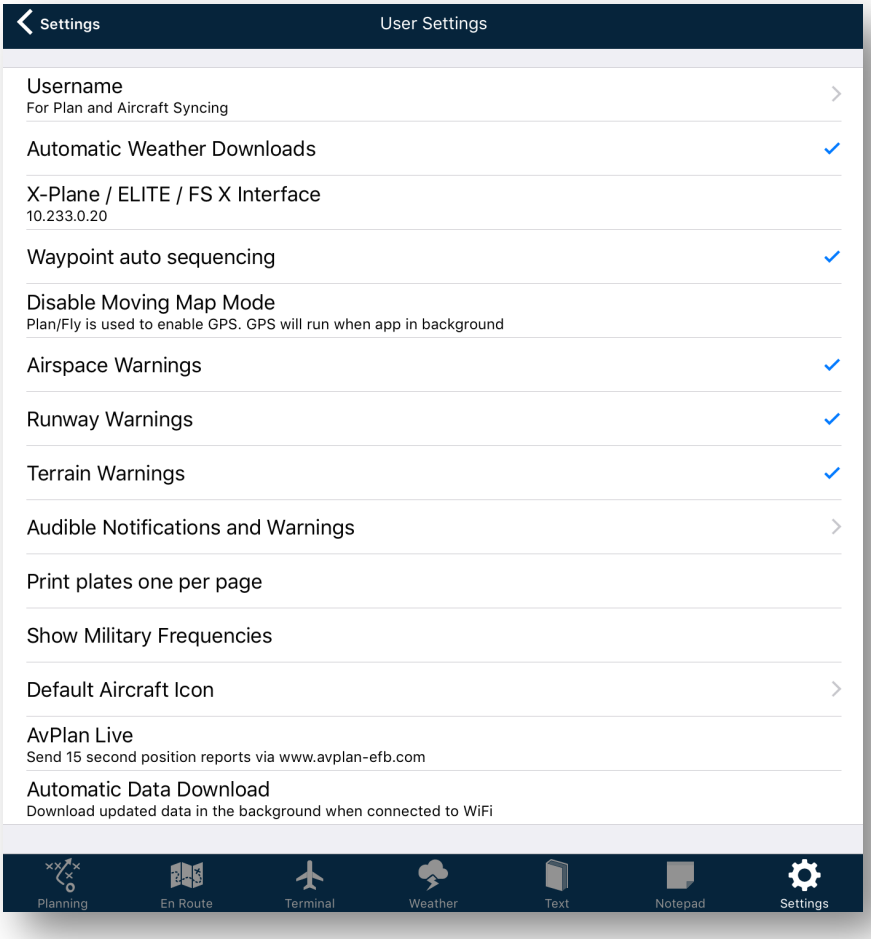


Figure 9 – User settings

8.1 Login details - Username

The **Username** page allows you to link the app to the AvPlan EFB website. You can register for the first time via the **Sign Up** control or enter your existing login details via the **Sign In** control.

Once you have entered a valid username and password you will be able to synchronize the device with all of your other AvPlan EFB devices. This includes subscription information and data syncing (including aircraft details).

8.2 Other user settings

Other **User Settings** that can be changed include:

- **Automatic Weather Downloads**. Disabling automatic weather downloads will stop AvPlan EFB downloading weather as a plan is built. When this option is set, you can download new weather by tapping the **Refresh** icon at the bottom of the flight plan.
- **X-Plane/FSX Interface**. Enabling the **X-Plane** interface will disable the inbuilt GPS and enable input from **X-Plane**. The IP address for your iPad will appear in this row. See the AvPlan EFB full manual for further details on how you make the most of this feature.
- **Waypoint auto-sequencing**. Enabling the leg auto-sequencing will automatically sequence to the next flight plan leg as each waypoint is passed. Auto-sequencing will only start after the **Departure** icon is pressed, and will stop at landing points, or points with a delay in your plan (for example when performing aerial work).
- **Disable moving map mode.** Disabling **Moving Map** mode requires that a flight plan be loaded and while in **Fly** mode for the GPS to be enabled on your device. Disabling **Moving Map** mode is useful when performing pre-flight planning and preserving battery life.
- **Airspace Warnings.** When Airspace Warnings are enabled, AvPlan EFB will display warning messages as you approach a new FIA. The messages will detail information such as the airspace name, distance to and the airspace lower and upper limits.
- **Runway Warnings.** When enabled, AvPlan EFB will warn you when you are about to enter or cross a runway or provide information about the runway length relative to the runway heading and taxi entry point.
- **Terrain warnings**. Disabling **Terrain Warnings** disables the look-ahead feature for terrain. This will also disable the 500 ft AGL callout on descent.
- **Audible Notifications and Warnings**. This allows you to enable voice annunciations for various alerts and warnings. It is best used in conjunction with a Bluetooth enabled headset.
- **Print Plates one per page**. When enabled AvPlan EFB will only print one plate per page. When disabled you will use less paper, but the multiple plates on a page will be scaled to fit the page.
- **Show Military Frequencies**. When enabled, AvPlan EFB will detail the any known military frequencies under the **Comms** tab for a specified airport.
- **Default Aircraft Icon**. The default aircraft icon that is displayed on the maps when no plan is open/selected can be changed here. You may choose from a Jet, Helicopters, twin or Light Aircraft or a Pitts Special.
- **AvPlan Live**. Enabling this allows your GPS position to be sent periodically (evey 15 seconds) to our server. This allows the server to send back other AvPlan users in your region so they can be displayed on your map.
- **Automatic Data Download**. If enabled AvPlan EFB will download newly released nav data and area forecast updates in the background even when the app has been backgrounded.
- **Sync Flight Plans**. Enabling the flight plan syncing will sync flight plans via the AvSoft cloud service to your other iDevices. This also provides an off-device back-up capability.
- **Sync Aircraft**. Enabling the Aircraft and syncing will sync flight plans via the AvSoft cloud service to your other iDevices. This also provides an off-device back-up capability.

9 ADDITIONAL SETTINGS OPTIONS

In addition to the **Settings** options detailed above, the following options are also available for you to view licence and subscription details, maintain aircraft information and connect with external devices.

9.1 Subscriptions

You can purchase subscriptions renewals via the subscriptions option from the list of Settings options. Simply scroll to the subscription option you require and press the cost button to the right of the option. You will be prompted to **Buy Now** after pressing. To continue the purchase press the **Buy Now** button and the normal iTunes purchase process will takeover.

> **Note:** Although this can be a convenient option for subscription renewal and purchase, for **lower** subscription renewal and purchase costs we recommend using the AvPlan EFB website.

9.2 License

To view the license agreement that was agreed to when the AvPlan EFB app was first activated, select the **License** option from the Settings list of options.

9.3 Aircraft Type Database

The **Aircraft Type Database** option displays the current aircraft types defined in the aircraft type database. The aircraft types in the database can be used to define the individual aircraft you currently fly.

The aircraft types you create can be copied, uploaded and shared with other AvPlan EFB users.

> **Note:** Managing aircraft types is discussed in more detail in section 14 AIRCRAFT MODELS of the AvPlan EFB User Manual.

9.4 External Devices

AvPlan EFB supports a growing number of external ADS-B receiver devices that when active and connected can provide supplement data to the app. A list of supported devices and their configuration options is detailed in the in the **External Devices** section of the **Settings** pane.

> **Note:** A list of the currently supported devices is available on our website:
>
> www.avplan-efb.com/avplan/avplan-omni
>
> If you have any questions about how to use the supported ADS-B devices with AvPlan EFB, please feel free to contact us.

Technical support: support@avplan-efb.com

FAQs: www.avplan-efb.com/avplan/faq