

**iGoDispatch**  
**LES Saab-340A**  
**iPhone**

## **WARNING**

**This application must not be used for real flight planning, aviation or navigation purposes.**

**All calculations performed by this application are based on navigation data provided by Aerosoft. Navdata provided by Navigraph is also compatible.**

**This application may contain bugs and may not perform as expected or promptly at all times.**

**The developer of the application declines any responsibility that may be caused by any use of the application under any circumstances other than X-Plane flight simulation.**

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## PREAMBLE

Saab-340A is a simulation plane model developed by the Leading Edge Simulations (LES) specifically for X-Plane. iGoDispatch Saab-340A (hereinafter referred to as the Application) is an iOS application that helps you create a flight plan; estimate the required amount of fuel for your flight; load the plane with passengers, cargo and fuel; calculate various plane parameters, such as %MAC and Center of Gravity offset; track the flight on a map; dynamically adjust some of the plane's parameters (e.g. the current Center of Gravity); and monitor your flight performance. It also includes inflight public announcements in several languages.

**IMPORTANT!** In order to perform certain functions, the application must be connected to the flight simulator over the TCP protocol using the iGoConnect plug-in for X-Plane. Visit the following webpage to download the plug-in, read all documentation, and obtain a link to the support page:

[http://igoapp.ca/page\\_igoconnect/igoconnect.html](http://igoapp.ca/page_igoconnect/igoconnect.html).

For this tutorial, we will create a flight plan from the Ottawa Macdonald Cartier International airport to the Ronald Reagan International airport in Washington, DC using [www.skyvector.com](http://www.skyvector.com). Our flight plan will be as follows:

**CYOW YOW YSH ART SYR FQM HAR EMI DCA KDCA**

The JFK airport in NYC will be our alternate airport.



## iGoConnect

iGoConnect is a plugin for X-Plane flight simulator. iGoConnect (hereinafter referred to as the Plugin) acts as a server that connects X-Plane to iGoDispatch over TCP. The Plugin performs the following actions:

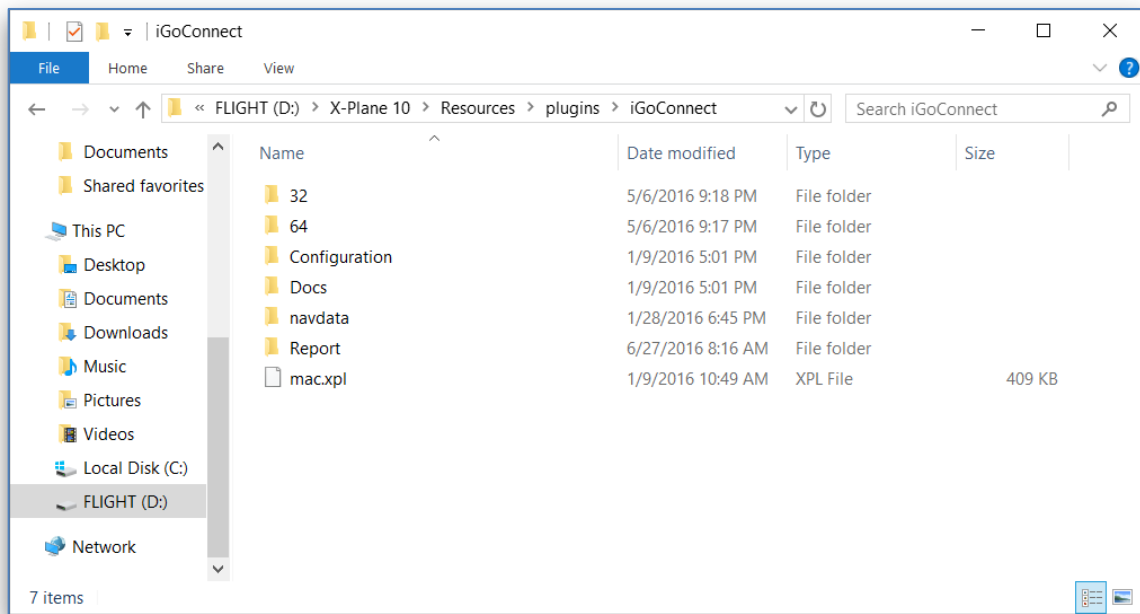
- The Plugin receives loading data from the Application (Center of Gravity offset, payload weight, and fuel weight) and loads the plane by changing the relevant datarefs in X-Plane.
- The Plugin sends to the Application a range of X-Plane datarefs (ACARS data), such as the plane's position (latitude and longitude); heading (true and magnetic); weight; available fuel; current fuel flow; ground speed; and altitude. In return, the Application sends back to the Plugin estimation of time and distance taking into account available fuel, %MAC, and the current CG offset.
- The Plugin dynamically adjusts the current CG offset received from the Application during the flight resulting in greater flight realism.
- The Plugin monitors the main flight parameters, such as G-force, turbulence, maximum speeds, lights, flaps, gear, etc., and determines if any of them have been violated or exceeded. It then creates a Flight Performance Report and sends it to the Application.

### Install iGoConnect Plug-in

The Plugin is a so-called fat plugin, i.e. it includes all necessary files inside one folder called iGoConnect. In order to install the Plugin, perform the following:

1. Download the file iGoConnect\_vX.X.zip from either website:
  - [http://igoapp.ca/page\\_igoconnect/igoconnect.html](http://igoapp.ca/page_igoconnect/igoconnect.html)
  - <http://forums.x-pilot.com/files/file/707-igoconnect/>
2. Unzip and move the **iGoConnect folder** to the following location:

- Your X-Plane 10 folder\Resources\plugins\



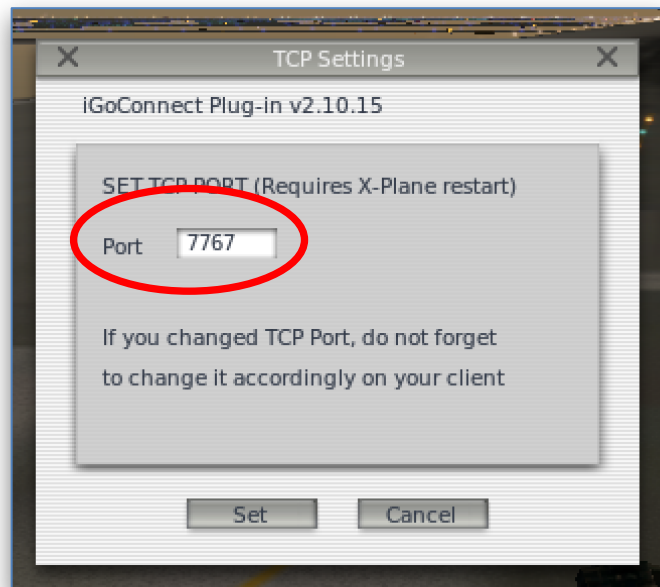
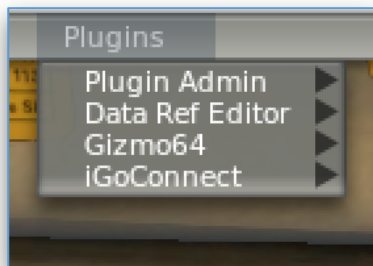
### 3. Make sure the Plugin folder includes the following subfolders:

- 32 – contains the 32-bit plugin files for Windows and Linux;
- 64 – contains the 64-bit plugin files for Windows and Linux;
- mac.xpl – plugin for Mac 32-bit and 64-bit;
- Configuration – contains the following configuration files:
  - preferences.cfg – stores the value of IP Port and other information;
  - planedata.cfg – stores plane technical characteristics used to monitor the flight performance, such as Vmo|Mmo, Flaps limitation speeds, VLE,VLOE, VLOR, Maximum Ramp Weight, Maximum Takeoff Weight, Maximum Landing Weight;
- Docs – contains License Terms, Manual, and other documents, if available;
- navdata – contains a navigation dataset from Aerosoft or Navigraph;
- Report – contains performance files that are passed to the Application to create a performance report;

## How it works

The interface of the Plugin is extremely easy. In fact, you do not need to do anything. By default, both the Plugin and the Application have the same Port – 7767. You only need to modify its settings if, for some reason, you want another port assigned to the TCP connection.

In this case, go to the Plugins tab in X-Plane, select iGoConnect and in the opened TCP Settings window type the new TCP Port. Click on Set and restart X-Plane. Do not forget to change the Port value in the Application.



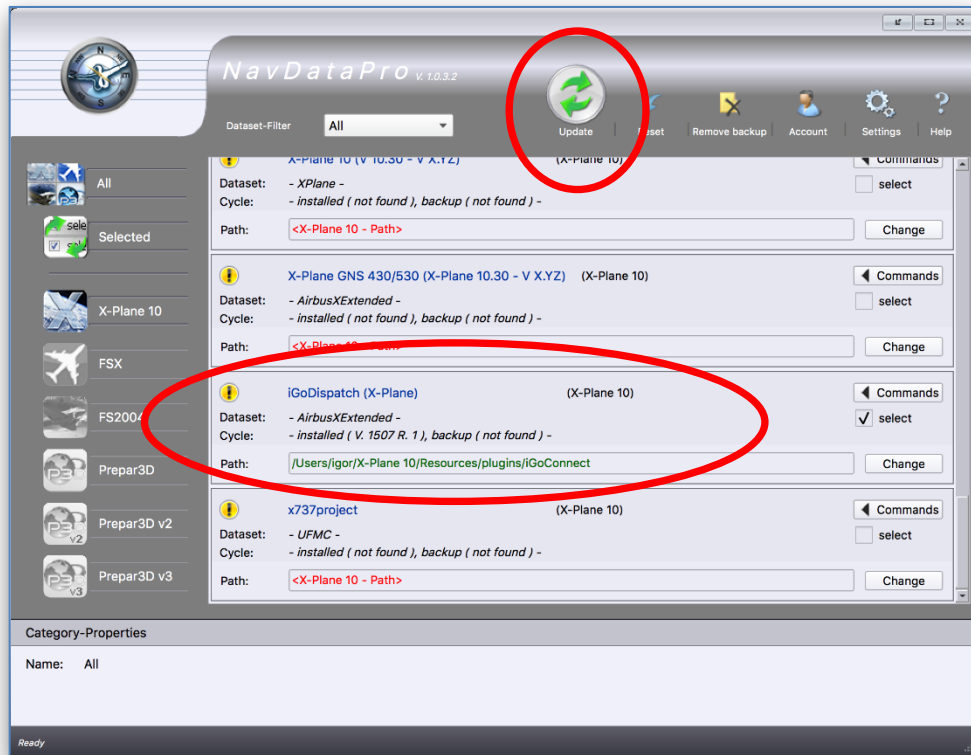
### **IMPORTANT!**

**If you have problems connecting the iGoDispatch application to the computer with X-Plane running, refer to Section “Troubleshooting Your Connection Problem”.**

## Update NavData

The Plugin comes with the default navdata from Aerosoft. It is possible (and recommended!) to update the dataset either using navdata from Aerosoft or Navigraph.

## Updating Aerosoft navdata



1. Open the NavDataPro application;
2. In the X-Plane 10 tab, find **iGoDispatch (X-Plane)**.
3. Change the path to point to the location where the iGoConnect plugin is located.
4. Check the Select box and click on the Update icon.
5. Click on Download to download and install the updated navdata.

## Updating Navigraph navdata

Wilco A320 PIC for FS2002	No	2016-07-19	1	3.52 MB	Download
Wilco CRJ Next Generation	Yes	2016-07-19	1	19.90 MB	Download
Wilco Falcon7X	Yes	2016-07-19	1	9.12 MB	Download
Wilco/Feelthere 737/777, Legacy, Airbus Series	Yes	2016-07-19	1	19.71 MB	Download
Wilco/Feelthere CRJ	No	2016-07-19	1	4.73 MB	Download
World Traffic 2.0 (and above) - native**	Yes	2016-07-19	1	17.60 MB	Download
x737FMC - native**	Yes	2016-07-19	1	14.81 MB	Download
X-FMC 2.5 (and above) - native**	Yes	2016-07-19	1	18.33 MB	Download
X-Plane 10.30 (and above) - native**	No	2016-07-19	1	5.47 MB	Download
X-Plane GNS430, 777 Worldliner (Ext/Prof), Flightfactor B757 Professional, VMAX B767-300ER Professional, X-Crafts Embraer E-175 - native**	Yes	2016-07-19	1	14.53 MB	Download

\* Contrary to other FMS Data files, access code are limited in time. An access code will enable use of the current AIRAC cycle during the current and the following cycle.

\*\* A "native" version of a download is identical to the regular download, but there is no installer program. The data is provided in a ZIP file which needs to be extracted manually in the correct folder. This version is only recommended for advanced or non-Windows users.

Access to the data is determined by your **subscription** start date and end date, which is printed on your receipt. NOTE: We never provide access to previous cycles, neither data files nor access codes, and regardless of your previous purchases. We only keep the current cycle on the server, and if you have an active subscription, you may download.

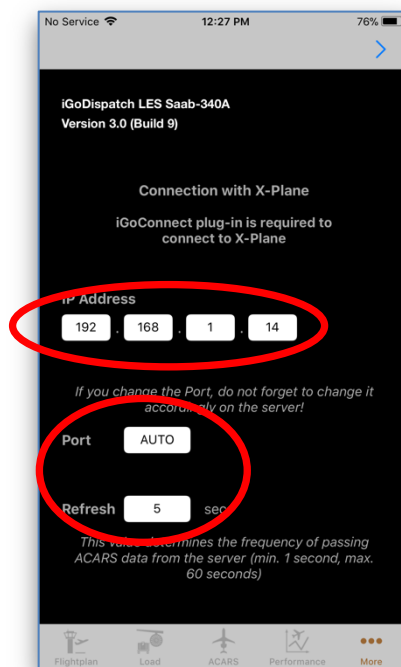
1. Login to <http://www.navigraph.com>;
2. Go to **Products -> FMS Data -> Manual Install**;
3. Find FMS data for **"X-Plane GNS430, 777 Worldliner (Ext/Prof), Flightfactor B757 Professional, VMAX B767-300ER Professional, X-Crafts Embraer E-175 - native\*\*"**
4. Click Download.
5. Unzip the downloaded file.
6. Copy the folder **"navdata"** in the unzipped file and paste it in **[X-Plane 10 folder]/Resources/ plugins/iGoConnect/**.  
Replace the folder when prompted.

# iGoDispatch

## Set your IP Address and Port


Planning your flight requires that TCP connection be established via Wi-Fi with X-Plane through the iGoConnect plugin. Always make sure that the latest version of the Plugin is installed in X-Plane.

First, identify the IP address of the computer where X-Plane is installed. Refer to PC, Mac or Linux documentation to learn how the IP address can be identified. Enter the IP address in the textboxes.



For the TCP connection to be established, you also need to identify the Port number. The default port number for the Application is 7767 (displayed on the Application as "AUTO"). If any of your other programs already use this port, you may change it. If you change the port, make sure that the same port number is set in both the Application and the Plugin. Changing the port in X-Plane requires restarting the simulator.

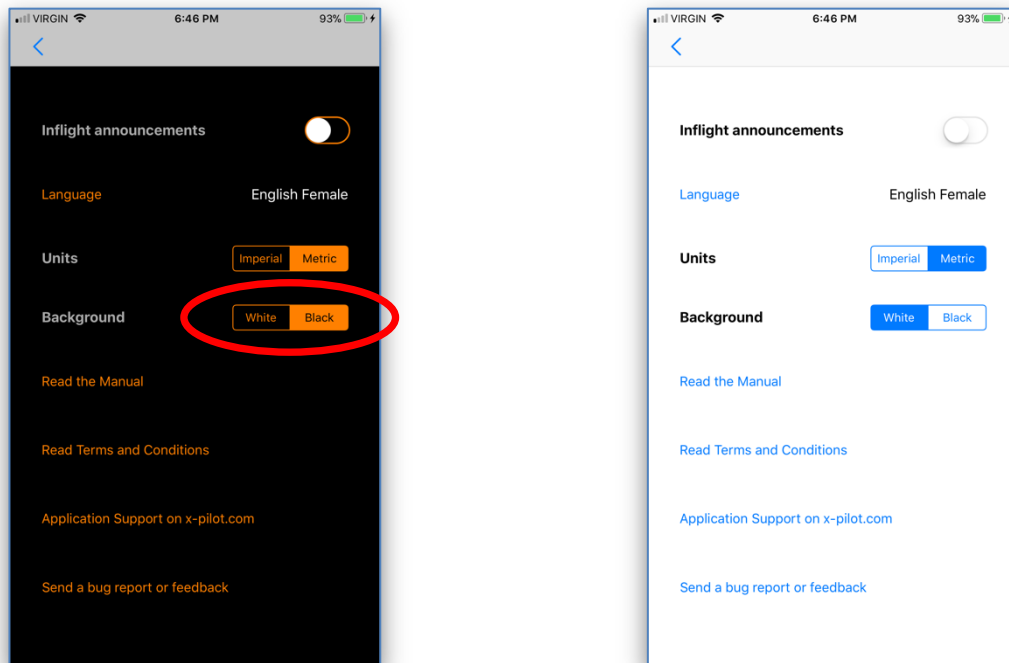
## Inflight Public Announcements and Units of Measurement

The Application includes an option to have inflight public announcements during the flight. To enable the option, tap on the  button on the Settings tab to go to the next panel and move the Inflight Announcements switch to the **On** position. You may also select the language of the announcements by tapping on the **Language** button and selecting a language from the list. It is possible to change languages during the flight.


**IMPORTANT!** The ACARS connection with X-Plane is required for the inflight public announcements to work. If the Application is disconnected from the simulator, the announcements will be disabled even if the switch remains in the On position. Refer to section “ACARS” regarding establishing the connection.


You may also select the Units of Measurement displayed in the Application by selecting Metric or Imperial units using the Units switch. Metric units are selected by default.

The Settings panel also contains links to the support information for the Application, as well as the Terms and Conditions. On the iPhone, there is an option to change the background of the application to the black color.

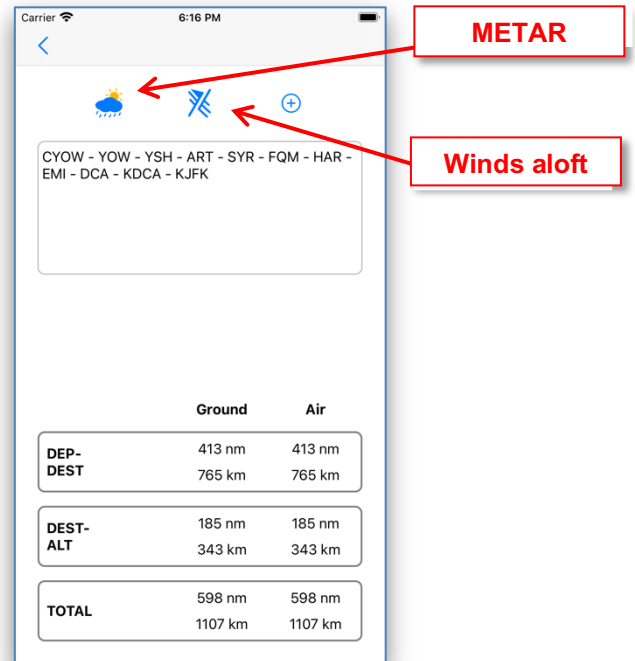
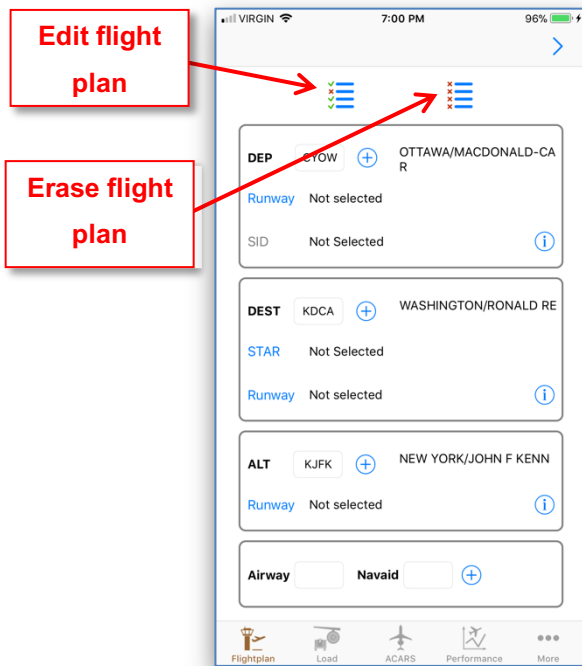


## Enter Departure, Destination, and Alternate Airports


Go to the **Flightplan** tab and enter your airports. Type in the ICAO code for each of the airports and tap on button . Make sure that **X-Plane is running on your computer** to be able to extract navigation data for the airports and waypoints. Entering the alternate airport is optional.

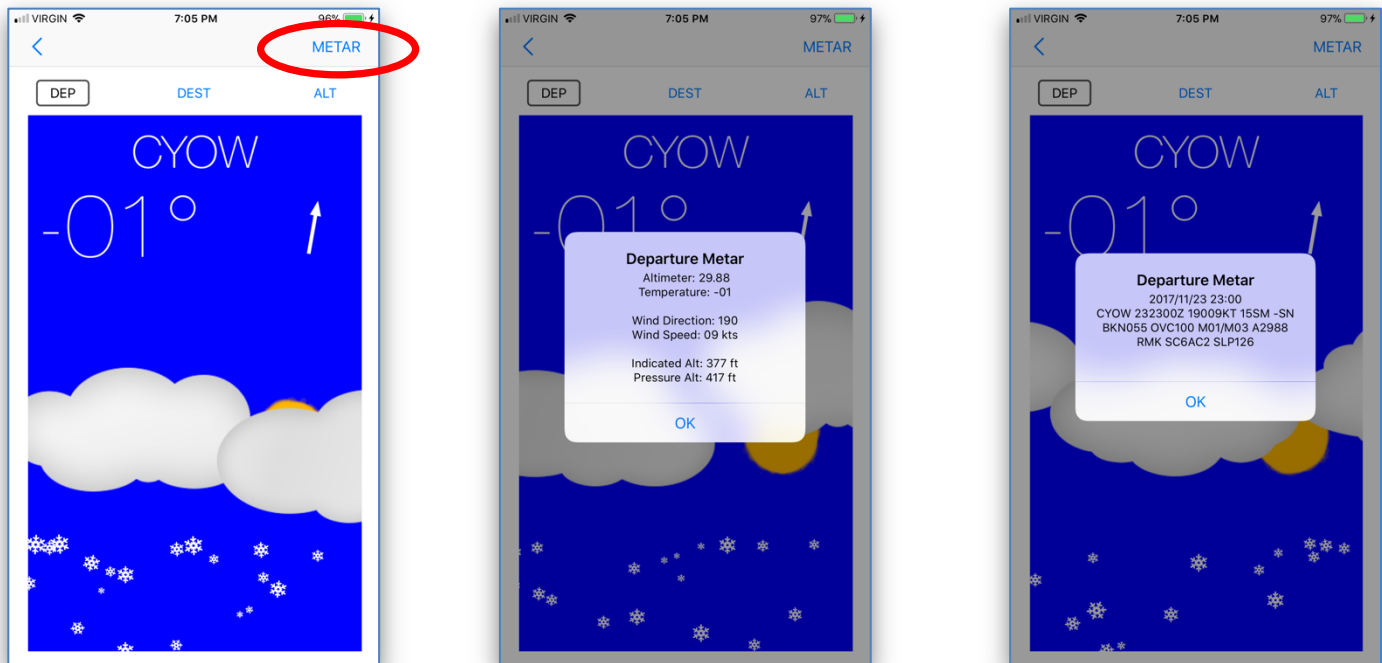
Tap on button  to move to the next panel that contains information about ground and air distance of your flight, your flight plan, as well as buttons to download METAR and winds aloft data, and upload the flight plan to your plane.





## METAR reports

Once the airports have been entered, we need to select the SID, STAR, and the runways that we will be using. Our runways will be selected based on the current METAR information from the National Oceanic and Atmospheric Administration website ([www.noaa.gov](http://www.noaa.gov)). Go to the **Metar** panel by tapping on button  and click on **METAR**.




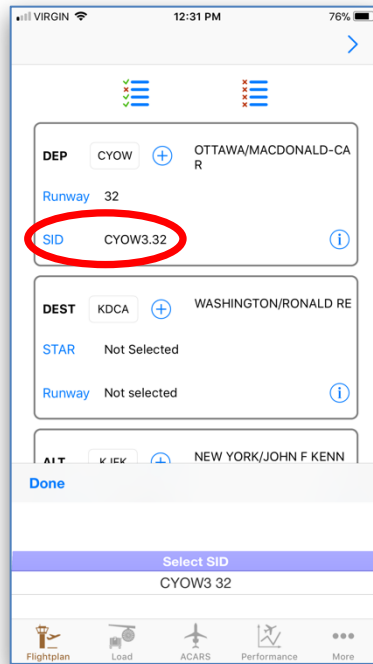
Tap on the screen

Swipe left

Use **DEP**, **DEST**, and **ALT** buttons to switch between airports. The default panel will display the current temperature and wind direction. Tap on the panel to receive information about the current altimeter, temperature, wind speed and direction, as well indicated and pressure elevations. Swipe left to display the full METAR report. The wind component will be 0 unless a runway for the pertinent airport is selected.

## Departure and Arrival Procedures

Tap on button  to go back to the **Flightplan** tab. Tap on **Select Runway**, choose the take-off runway, and then select your SID.



Select your STAR and arrival runway, as appropriate.

**IMPORTANT!** Entering Departure data requires that a runway be selected first followed by SID. The order of entering data for the Destination airport is different: selection of a runway follows choosing a STAR. Unless a Departure runway and a STAR are selected, your SID and destination runway cannot be selected. Your flight plan is updated only when all components are picked (i.e., the STAR and Approach information is not added to the flight plan unless the destination runway is selected).


## Waypoints and Airways

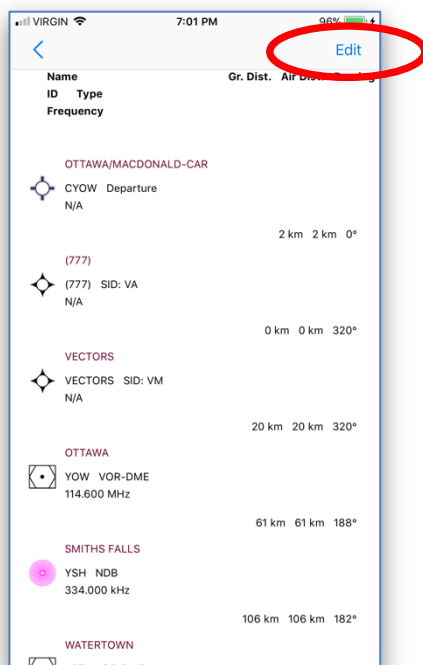
Waypoints and airways can be entered in the corresponding textboxes. It is not mandatory to enter an airway. If your next waypoint is a direct leg to the next waypoint, leave the airway textbox blank. Do not write "DIRECT".

However, when you have an airway, you **must** include the destination waypoint within your airway. If the waypoint is not identified as part of the airway, the airway will not be added to the flight plan.


**If the original and final waypoints within the same airway are located next to each other (no other waypoints in between), the application removes the airway name and treats it as a DIRECT leg from one waypoint to another.**

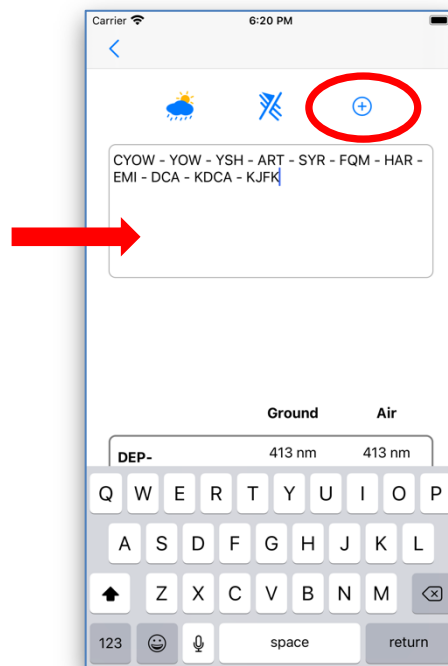
If navdata includes more than one waypoint with the same name, a list containing all of these waypoints will be displayed so that the required waypoint can be selected. The waypoint closest to the last point in the flight plan will be displayed first and pre-selected.

Once completed, the flight plan can be reviewed or edited by tapping on button . Click **Edit**, select the waypoint that you want to delete and click **Delete**.




## Adding The Flightplan By Entering It In The Flightplan Textbox

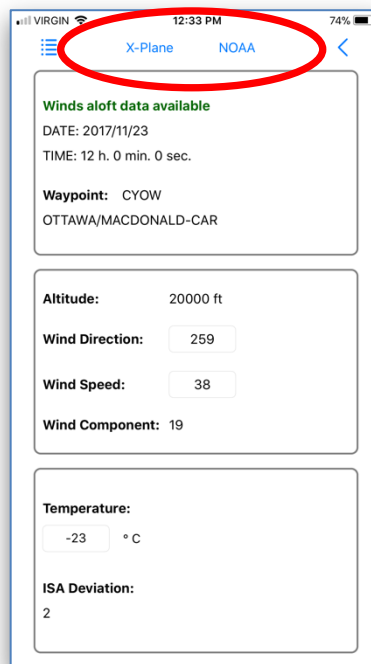
An alternative and faster way to add the flightplan to the application is to enter it in the Flightplan textbox or paste it from another source. Enter the plan using spaces or dashes in the textbox. Do not enter SIDs and STARs. If entered, they will be ignored. Departure and arrival procedures can be added later using the way outlined above. Once the flight plan is entered, tap on button  and wait for the application to finish downloading navdata from X-Plane.



## Winds Aloft


Tap on button . There are three ways to manage winds aloft data in the application: the data may be downloaded from the National Oceanic and Atmospheric Administration (NOAA) servers; the data may be downloaded from X-Plane (useful when custom winds are set by the pilots); and the data may be manually edited in the application for each waypoint in the flight plan.

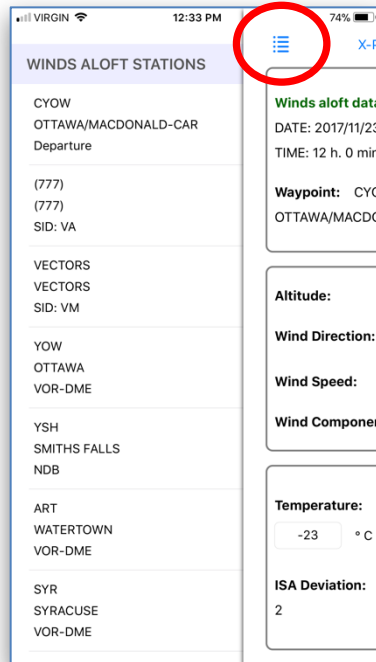
Tap on **NOAA** to download the current winds and temperatures information from the NOAA servers. The information is downloaded for three altitudes: 10000 feet, 21000 feet, and 34000 feet. Temperature, winds speed and direction are then interpolated for each waypoint in the flight plan based on its altitude. If the plan has been modified (for example, a new waypoint or an alternate airport have been added), the winds data will be erased; it must then be downloaded again. This does not apply to selecting or modifying SIDs and STARs.



Tap on **X-Plane** to download the current winds information from X-Plane. Similar to the data downloaded from the NOAA servers, winds information from X-Plane is also available for three altitudes and is interpolated for each waypoint in the flight plan based on its altitude. Wind direction and speed, as well as the altitude level can be modified directly in X-Plane. The X-Plane data does not include temperatures at the selected altitude. Therefore, the ISA Dev will not be calculated in this case.

Once winds aloft data have been downloaded, the application will also display date and time when these data were acquired.

Tapping on button  allows you to see detailed winds information for every waypoint in your flight plan.




Wind direction, speed, and temperature can also be manually edited for each waypoint in the flight plan. The edited information will be applied only to the selected waypoint.

Downloading winds aloft data results in recalculating your flight distance and presenting the air distance where wind component for each leg of your trip is taken into account. The air distance will be used to calculate the required trip fuel and time. If neither wind direction nor speed is entered, the air distance will equal the ground distance.

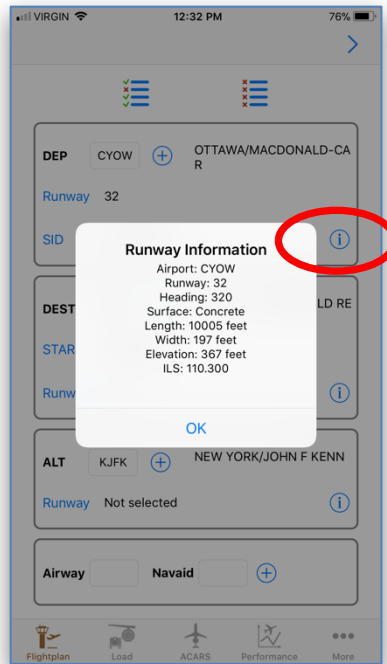
	Ground	Air
<b>DEP- DEST</b>	750 nm 1389 km	742 nm 1374 km
<b>DEST- ALT</b>	185 nm 343 km	184 nm 341 km
<b>TOTAL</b>	935 nm 1732 km	926 nm 1715 km


## Other Flightplan Tab functions

Obtaining detailed information about the selected runways can be done by tapping on button

 next to the **Runway** button. Information includes the runway heading, length, width, elevation, and ILS. It is understood that the surface type information is not accurate in the provided navdata datasets, so this can be disregarded.





Deleting the flight plan can be done by tapping on button  .

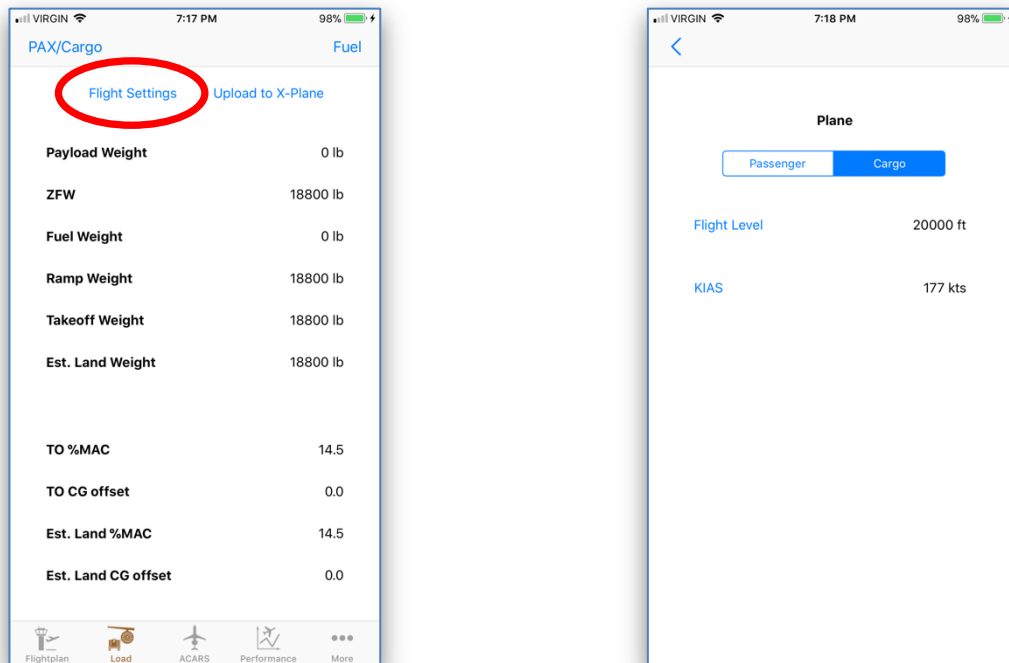
**IMPORTANT!** Once the flight plan has been deleted, all related information including the route and METAR will be permanently removed.

## Loading Plane

The **Load** tab displays detailed information about your weights (empty, payload, zero fuel weight, ramp weight, as well as estimated take-off and landing weights), flight time, and center of gravity.

Tapping on the **Flight Settings** button will open another panel that allows you to set your flight preferences: Flight Level, Indicated Air Speed, as well as the plane mode. In Saab-340A, there are two modes for loading the plane: passenger and cargo. Select your mode using the Passenger – Cargo selector.

**Note: switching from one mode to another will reset the plane load back to empty and you will need to re-load the plane.**



## Loading Passenger Plane


Using the selector, switch to the **Passenger** mode.

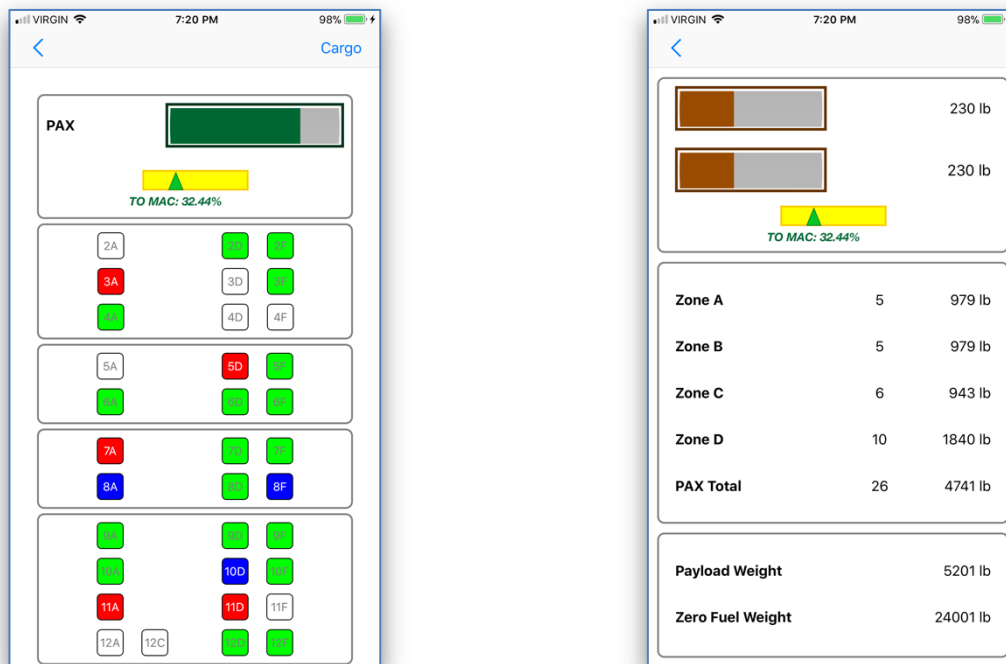
There are two ways to load your passenger plane. The first way is to click on a seat where you would like to have a passenger seated. Tapping on a button once will select a male (weight of 200 lbs. per person), twice – a female (179 lbs.), three times – a child (82 lbs.), and four times – an empty seat again.


The other way to load passengers is to move the slider under the image of the plane. As the slider is being moved, the application randomly selects the seats and passengers.

When you load the plane with passengers, the cargo compartments are also automatically adjusted – the weight of luggage is added and evenly distributed between the two compartments. You may increase or reduce the cargo weight by dragging the slider representing each of the compartments.

The application displays the passenger weight in each of the four passenger zones, the total cargo weight, empty weight, operational items weight, total payload weight, and zero fuel weight. The panel also displays the estimated Mean Aerodynamic Cord (MAC%) during take-off which is automatically adjusted while you load passengers or cargo. If the estimated MAC% is outside of allowed limits, it becomes highlighted in red.

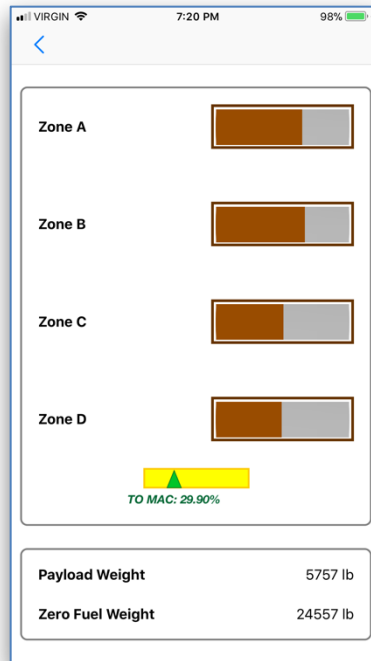
Tap on button  to go to the next panel, which displays the cargo sliders, the actual number of passengers and their weights in each of the three passenger zones, as well as the total cargo weight.



Return to the main panel by tapping on button .

## Loading Cargo Plane

Using the selector on the **Flight Settings** button, switch to the **Cargo** mode.



There are four cargo zones in the plane. Drag the slider representing a particular zone from left to right to determine the cargo weight for this zone. The panel also displays the estimated Take-off MAC% which is automatically adjusted while you load cargo in each zone. If the estimated MAC% is outside of allowed limits, it becomes highlighted in red.

When done, tap on button .

## Load Fuel

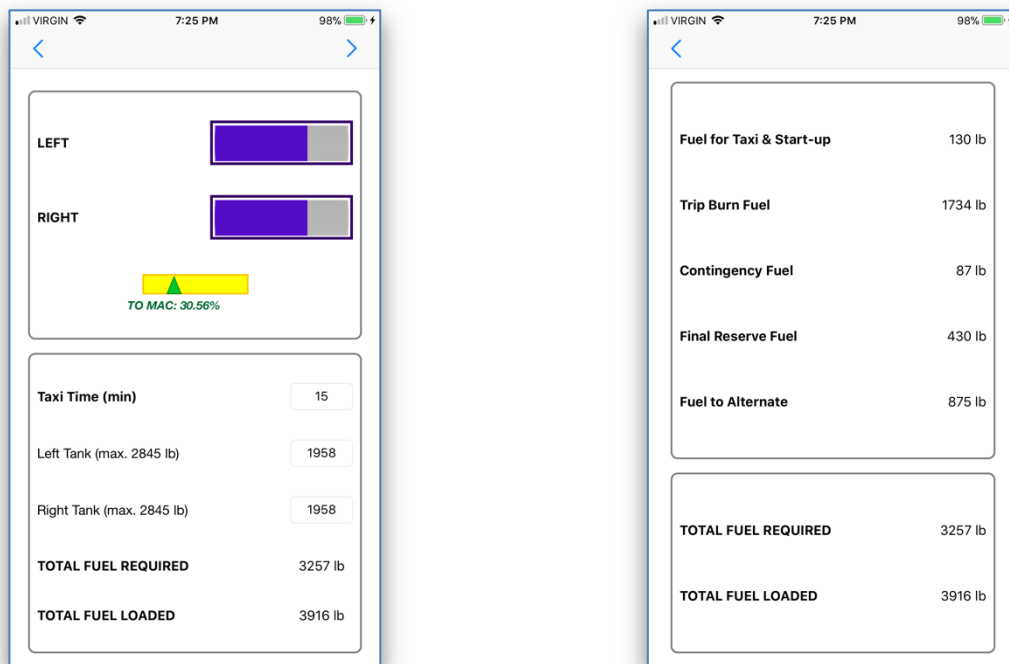
The application estimates the required fuel taking into account the following parameters:

- Fuel required for taxi and engine start-up (in order to calculate the amount of fuel required for start-up and taxi, type in an estimated number of minutes for taxiing at the departure and destination airports);
- Trip burn fuel – fuel required for flying from Departure to Destination;
- Contingency fuel – usually 5% of the trip burn fuel;
- Final reserve fuel – fuel required for holding for 30 minutes at 1500 feet;


- Fuel required for flying from Departure to Alternate.

Select how much fuel you would like to load by moving either the left or right slider representing fuel tanks. Changing any of the sliders automatically adjusts the other slider.

Alternatively, fuel may also be loaded manually. Enter the amount of fuel in the corresponding textbox.

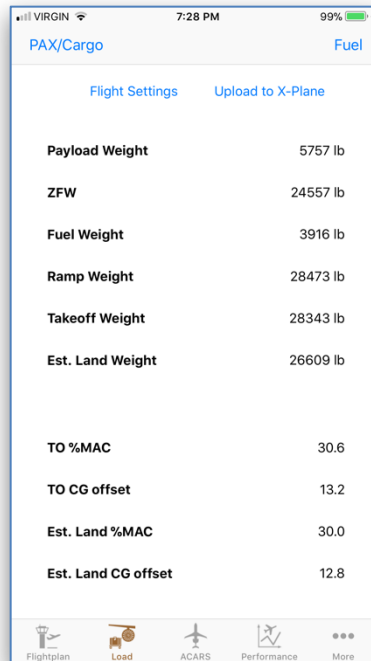


Amount of fuel impacts the center of gravity of the plane. As in the case with loading passengers, the Application estimates the take-off MAC% with the current fuel load.

Tap on button  to go to the next panel, which provides with detailed information about how much fuel is required and how much fuel is currently loaded.

### Parsing Load Information to the Plane

Go back to the Load Panel and tap on the **Upload to X-Plane** button to parse the estimated take-off center of gravity offset, as well as the payload and fuel weights to X-Plane. Make sure that X-Plane is running.



PAX/Cargo	
Flight Settings	
Upload to X-Plane	
Payload Weight	5757 lb
ZFW	24557 lb
Fuel Weight	3916 lb
Ramp Weight	28473 lb
Takeoff Weight	28343 lb
Est. Land Weight	26609 lb
TO %MAC	30.6
TO CG offset	13.2
Est. Land %MAC	30.0
Est. Land CG offset	12.8

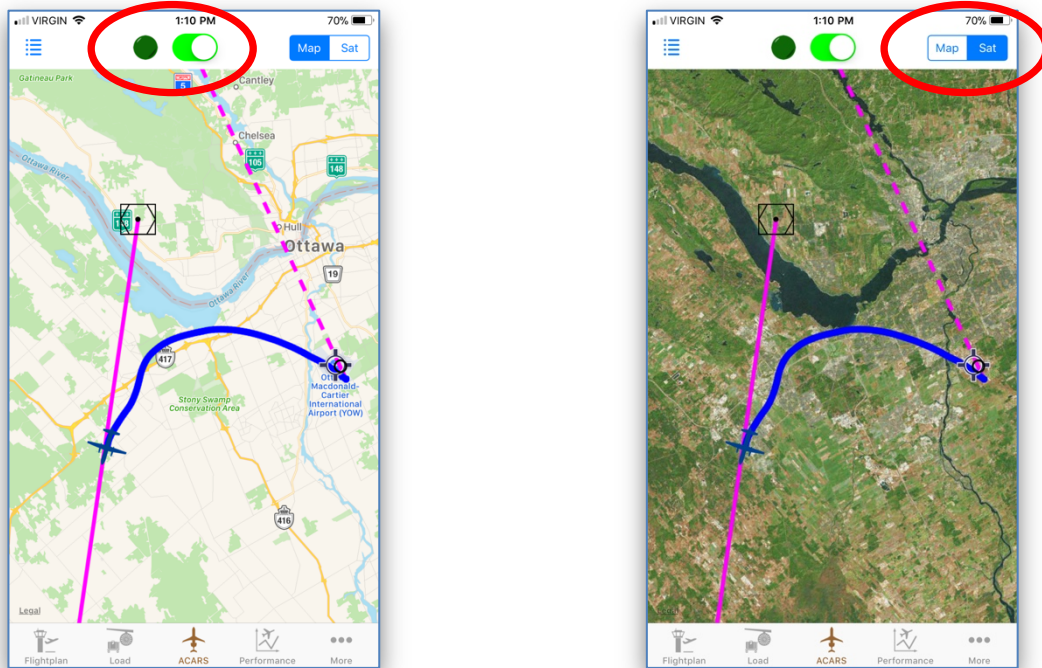
Once the passengers, cargo, and fuel have been loaded and the CG offset has been adjusted, the Application will display a Notification message.

## ACARS

The **ACARS** panel displays the current flight information and tracks the position of your plane on the map. The most recent version of iGoConnect must be installed in X-Plane for correct sharing of data between the Application and the simulator.


The Map-Satellite selector allows you to switch to the Satellite image of the area.

**IMPORTANT!** By default, the Application is not connected to X-Plane. When you download winds aloft data or pass the weight and CG information to the simulator, a temporary connection is established only for the duration required for sharing the data between the server and the client. In order to receive the ACARS data on the panel, the permanent connection with X-Plane must be set by moving the connection switch on top of the panel to the On position. Once the connection is established, the panel light will change from red to green.

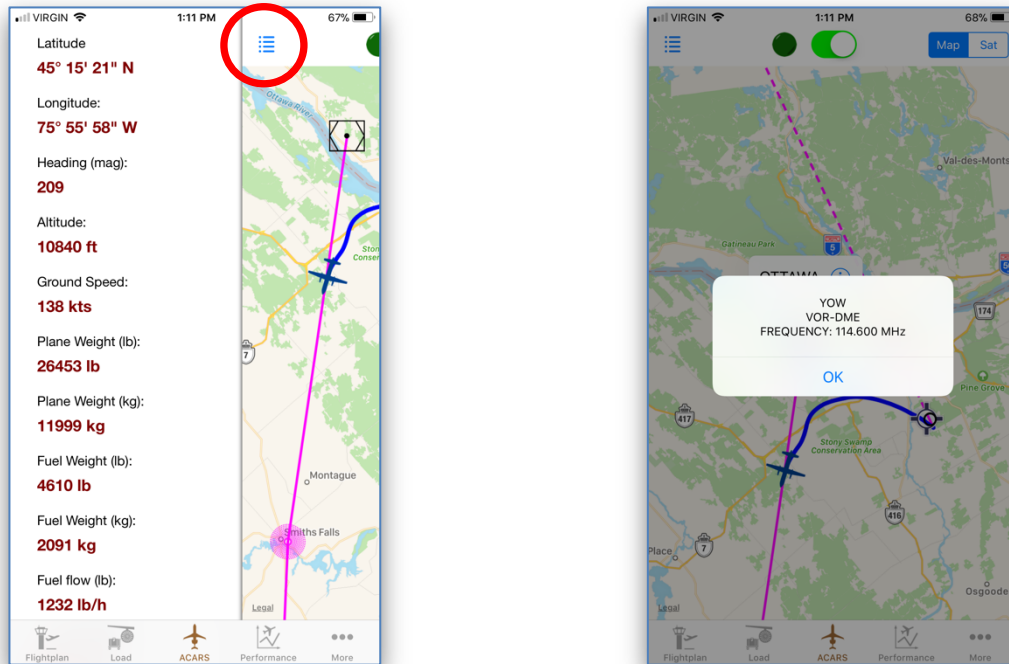


The following data will be transmitted to the Application:

- Current position of the airplane (latitude and longitude);
- Heading (true heading is used to display the plane image on the map and the magnetic heading is displayed for your information);
- Current total plane weight (in pounds and kilograms);
- Fuel weight and flow (in pounds and kilograms per hour);
- Ground speed (in knots);
- Remaining time and distance at the current fuel flow;
- Current altitude (in feet);
- Current %MAC and CG offset.

Tap on button  to open the menu with these parameters. Scroll down to see the rest of the parameters.

The CG data (%MAC and offset) are dynamic values, i.e., they are constantly changing during the flight as CG is dependent on the weight of fuel. The application re-calculates the current CG offset and dynamically adjusts this value in X-Plane, which results in more flight realism.



Tap on a waypoint icon to get detailed information about it.

## Flight Performance

The **Performance** panel allows you to assess your flight performance based on over 30 parameters. The Plugin must be installed in X-Plane. Tap on the **Download Report** button.

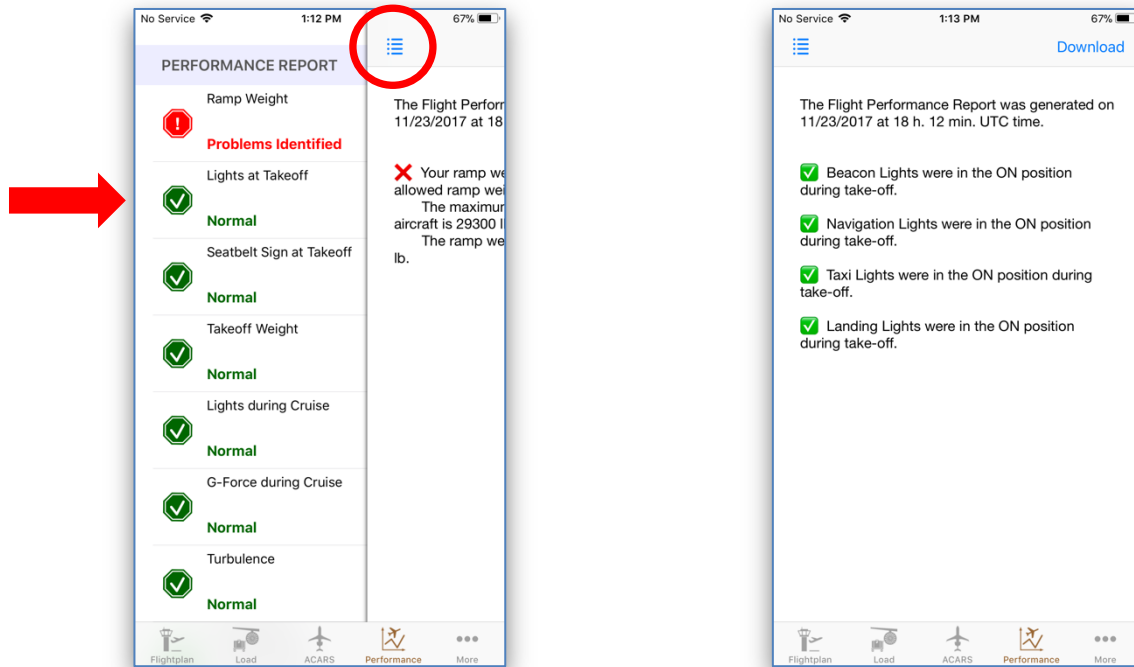
**IMPORTANT!** Download your performance report **BEFORE** exiting from your flight or closing X-Plane. As soon as the flight has been reset (e.g., a new plane has been loaded after your flight) or you have closed X-Plane, the performance report will be reset to a new flight and all data pertinent to the previous flight will be erased.

The option to save the previous reports is not available at this time so your old report will be deleted.




Tap on button  to open the menu with performance information and select a parameter.

The application will display problems identified, if any. Select the parameter that you are interested in to show detailed information.



## SPEEDS

The SPEEDS panel displays the takeoff reference speeds for the current weight and weather conditions: V1, Vr, and V2 for different cabin air-conditioning vapor cycle system (VCS) and anti-ice (A/I) settings for flaps 0 and 15.

Tap on button  to go to the next panel, which presents landing reference speeds for flaps 20 and 35 as specified by the Federal Aviation Regulations (FAR) and the Joint Aviation Requirements (JAR).

No Service 12:42 PM 73%

< More Vref & Time

	ECS off, A/I off	ECS on, A/I off	ECS off, A/I on
<b>TAKE-OFF : FLAPS 15</b>			
V1	106 kts	106 kts	106 kts
Vr	106 kts	106 kts	106 kts
V2	108 kts	109 kts	109 kts
Pitch Trim	1 1/4 UP		
<b>TAKE-OFF : FLAPS 0</b>			
V1	115 kts	115 kts	116 kts
Vr	118 kts	118 kts	118 kts
V2	120 kts	120 kts	120 kts
Pitch Trim	1 3/4 UP		

Flightplan Load ACARS Performance More

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<b>LANDING VREF</b>	
FAR Vref20	107 kts
FAR Vref35	106 kts
JAR Vref20	104 kts
JAR Vref35	103 kts
<b>FLIGHT TIME</b>	
DEP to DEST	3 h. 7 min.
DEST to ALT	0 h. 46 min.
<b>TOTAL</b>	<b>3 h. 53 min.</b>

**Have a safe flight!**

## TROUBLESHOOTING YOUR CONNECTION PROBLEM

If you cannot establish TCP connection with X-Plane via the iGoConnect plugin, try the following steps:

1. Make sure that X-Plane is running when you try to establish connection. Your plane has to be loaded in X-Plane.
2. Check the IP Address of your X-Plane computer. Make sure that this address is correctly entered on the Settings panel of the Application.
3. **Check the IP Address of your X-Plane computer again and whether it is correctly entered in the Application.** This is not a typo. Ninety nine percent of all cases where a problem with connection is reported account for entering the wrong IP address.
4. If you changed the port number on the application, do NOT forget to change it in the plugin. After the number has been changed, reload X-Plane.
5. Once the IP Address and the Port number are checked, type an ICAO code (e.g., **KLAX**) in the Departure textfield on the Flightplan panel. Tap on button  to upload the airport information. Has the information been successfully uploaded? If yes, you have no problem with the connection – everything works as it should.
6. If you still have problems connecting, you may have your firewall blocking the port and not allowing the Application to establish connection through it.
  - Start your X-Plane and wait till a plane finishes loading.
  - In Mac, open Terminal. In Windows, open Command Prompt window.
  - Type “telnet”, followed by the IP Address of the X-Plane computer (the one you need to enter in the Application), and the Port number. Do not use quotes, for example:

```
telnet 192.168.1.99 7767
```

7. If the connection was not established, you probably use a firewall that blocks the port and the port must be opened. Disabling your firewall completely is not necessary and is not recommended. You may temporarily disable your firewall to confirm that it causes your connection problem. Once the port opening rule is set, the firewall can be turned on again. In order to open the IP Port using default Windows and Mac firewalls, the following can be done:

For Windows:

- 1) Go to Control Panel > Windows Firewall
- 2) Click on "Advanced Settings" in the left-hand pane.
- 3) Click on "Inbound Rules" and then "New rule".
- 4) Select "Port", click next, select "TCP", and enter "7767" as the local port.
- 5) Click next, and allow the connection.
- 6) Click next again, and ensure that "Domain", "Private" and "Public" are all ticked.
- 7) Name your firewall rule, e.g. "iGoConnect", and then save it.

For Mac:

- 1) Go to System Preferences, and choose the Security and Privacy Tab.
- 2) Click on the Firewall Tab, and the Firewall options button.
- 3) The page will show you the applications that are allowed access through your firewall
- 4) Add new applications to the list by clicking on the plus icon.

If you have third party firewalls, please refer to their manuals.

8. If nothing worked:
  - Go to the Settings panel and send me an email from there to [igodispatch@igoapp.ca](mailto:igodispatch@igoapp.ca).
  - Send me another email to the same address with a Log.txt file attached.

We will fix it together!