

Last Updated: December 2020

Navigator User Guide

v3.5.x

This document provides step-by-step instructions for using Redbird Navigator.

About Navigator: Navigator is the operating system for Redbird simulators. It enables control of the simulator in a variety of ways, and the sharing of information through cloud-based software. It can be used with a variety of portable devices.

Navigator comes with four core applications: 1) Dispatch; 2) Scenario Store; 3) Sim Management; and 4) Instructor Station. The details of the first three are covered in this User Guide. The details of how to use Instructor Station can be found in the *Instructor Station User Guide*.

Assumptions: You have login credentials (you can register for login credentials at account.redbirdflight.com). You have a Pilot Key if you intend to use a licensed software package such as GIFT. The simulator is connected to the Internet.

Instructions:

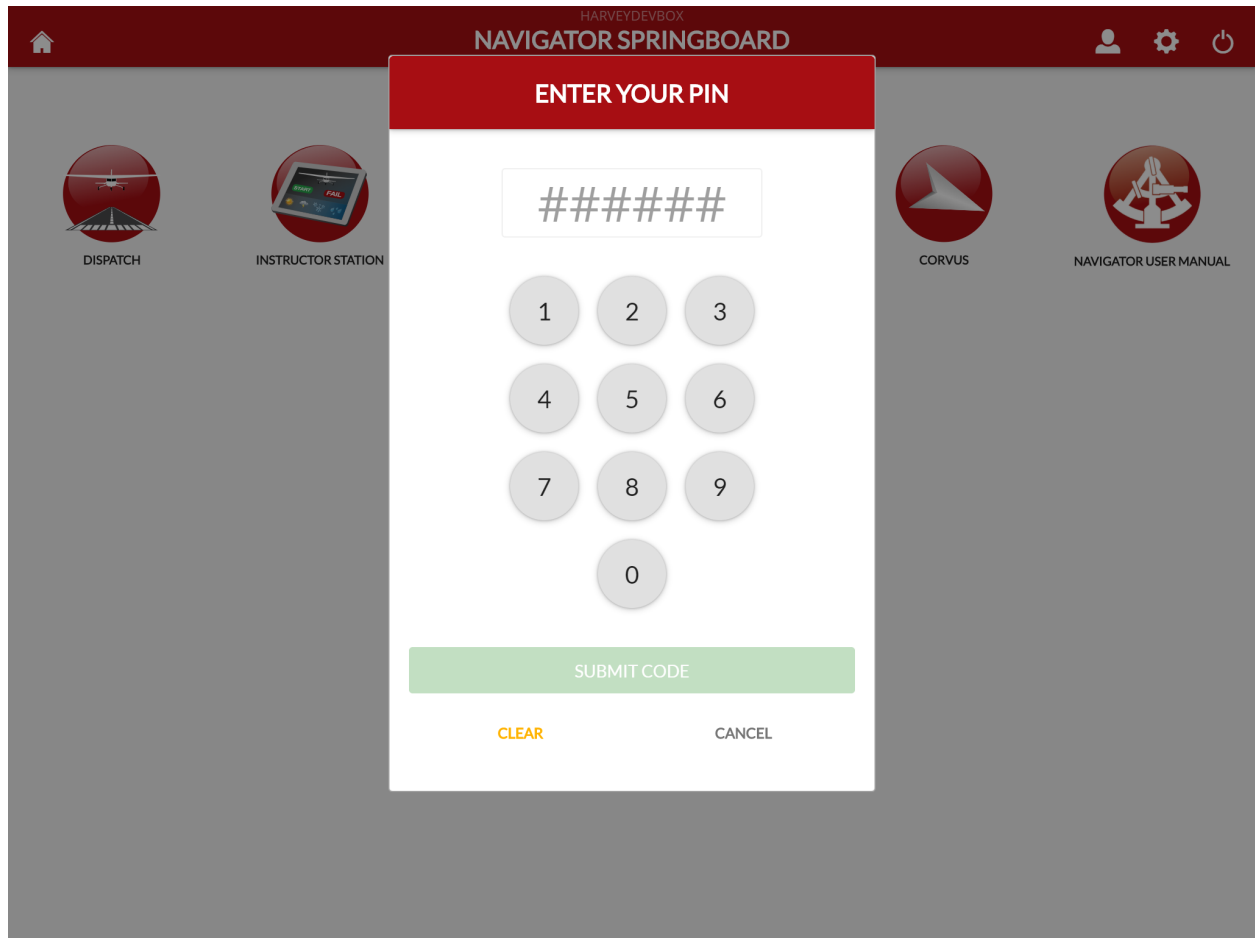
Find Your Flight

1. On a wireless device such as a tablet computer (recommended), smartphone, laptop computer, or by using the simulator itself, launch Navigator.

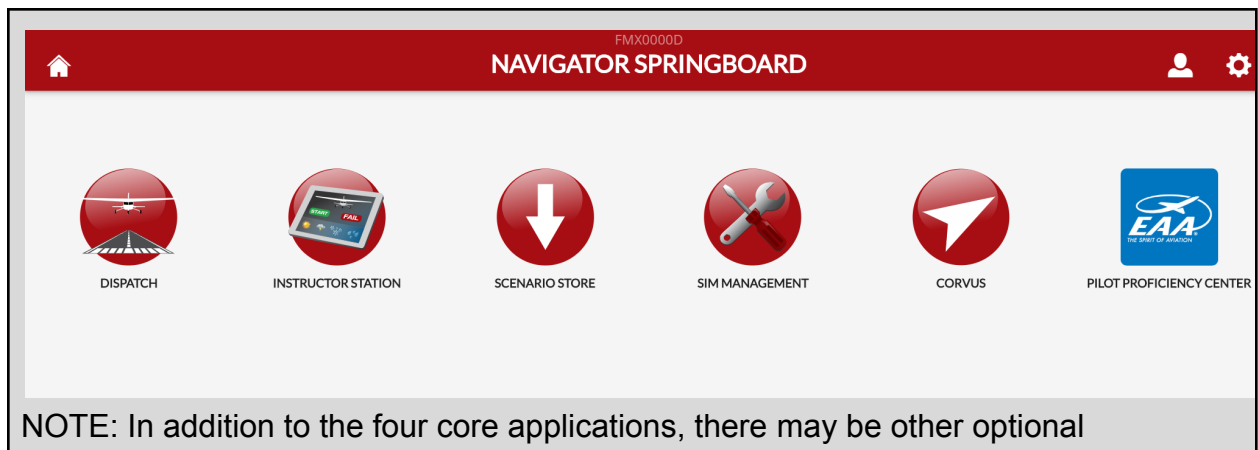
NOTE: If you use a device other than the simulator to access Navigator, be sure your device is connected to the simulator's wireless Navigator network.

NOTE: If you are using a Redbird Jay or Redbird TD/TD2 simulator, you will use Navigator on the simulator itself.

2. Insert your Pilot Key into the Pilot Key port on the switch panel of the simulator. The login screen appears.



3. Enter your login credentials (PIN) and click **Login**. The Navigator main menu called *Navigator Springboard* appears.

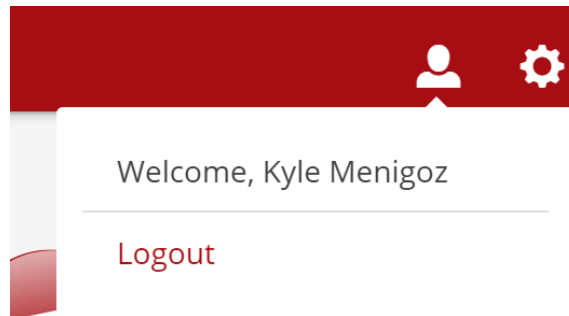


applications displayed on the Navigator Springboard.

4. No matter where you are in Navigator, you can return to the Navigator Springboard anytime by clicking the home icon in the upper left corner.



5. If you want to logout of Navigator, click the person icon in the upper right corner and click **Logout**.



6. If you want to view the devices connected to the system, click on the sprocket icon in the upper right corner.



7. The list of devices appears.

PERIPHERALS	
✓ Internet	1ms
✓ Avionics Panel C172-FC-G003	<1ms
✓ Switch Panel	<1ms
✓ Yoke	<1ms
✗ Throttle	N/A
✗ Rudder Pedals	N/A
✓ Motion System	0ms

NOTE: Devices with green status means the devices is connected. Yellow status means the device is not connected. You will not be able to start a flight unless all devices are have a green checkmark on the left side.

8. If there is a software update or flight update available, an orange triangle with an exclamation point will appear in the upper right corner.



Using the Sim Management Application

9. To launch the Sim Management application, from the Navigator Springboard, click the Sim Management icon.



Overview tab

10. The Sim Management page appears with the Overview tab selected.

The screenshot displays the 'SIM MANAGEMENT' interface with the 'OVERVIEW' tab selected. The interface includes a sidebar with navigation options: OVERVIEW (selected), DEVICES, UPDATES, SETTINGS, and SUPPORT. The main content area shows system details and a list of installed software versions.

SIM MANAGEMENT	
Location	Redbird HQ xxxx
LogMeIn ID	FMX0000D Humpty Dev Box
SOFTWARE VERSIONS	
HobbsLogger	1.2.1
Instructor Station	1.0.7
Navigator	3.4.2
RBUdapter	1.1.3
RB Core	29.00.00031
RealNav	none
SIM ACTIONS	
RESTART SHUTDOWN	

NOTE: The Overview tab displays the version number of all the software installed in the system.

11. To view the latest change log for Navigator, click the version button in red to the right of Navigator in the Overview tab.

Navigator

3.4.2

12. To shut down the simulator, click **Shutdown** at the bottom of the Overview tab.
13. To restart the simulator, click **Restart** at the bottom of the Overview tab.

Devices tab

14. To view the devices connected to the system, click **Devices** on the left side menu. The list of devices appears as shown in step 6.

Updates tab

15. To update the software or download updated flight scenarios, click **Updates** on the left side menu. The Updates login screen appears.

Please Login to View Updates

Password

LOGIN

16. Enter the Simulator default admin password "Redbird12345" and click the **Login** button.

NOTE: You can reset the default admin password from the Settings tab.

17. If there are updates available, click the **Update All** button. The installation progress bar will appear.

Updates Found		REFRESH	UPDATE ALL
HobbsLogger	1.2.2	UPDATE	
Redbird Navigator User Manual	1.0.0	UPDATE	

18. If there are no updates found, click the **Refresh** button to see if there are any recent updates.

Settings tab

19. To view an/or modify the simulator settings, click **Settings** on the left side menu. The login Settings screen appears.

Please Enter Password to Proceed	
Password	
<input type="password"/>	
LOGIN	

20. Enter your admin password. Once you do, the Login button will activate. Click the **Login** button.

21. The settings tab appears.

The screenshot shows the 'SIM MANAGEMENT' interface. The top header is red with the text 'SIM MANAGEMENT' and a user icon. The left sidebar has icons for Overview, Devices, Updates, Settings (active), and Support. The main content area is divided into three sections:

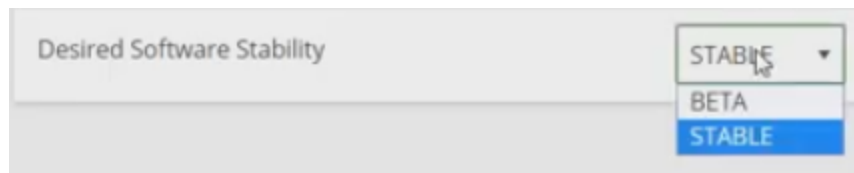
- Sim Settings** (with a red question mark icon):
 - Sidekick Uploads Enabled: ☒ ON
 - Anonymous Mode Enabled: ☒ ON
 - Free Flight Enabled: ☒ ON
 - Scenario Store Enabled: ☒ ON
 - Find My Sim Enabled: ☒ ON
 - Require Password to Restart/Shutdown Sim: ☒ ON
 - Use Metric Units: ☐ OFF
 - Auto Apply Critical Updates: ☐ OFF
 - Desired Software Stability: STARI ▼
- Sim Customization Settings**:
 - Name: Humpty Dev Box
 - Tail Number for C172-FC-G003: N172RB
 - SAVE button
- Sim Admin Settings** (with a red question mark icon):
 - Name: Kurt Williams
 - Email: kwilliams@redbirdflight
 - Phone Number: 512-301-0718
 - CHANGE PASSWORD button
 - SAVE button

NOTE: The Sim Customization Settings fields and the Sim Admin Settings fields are pre-filled with customer information.

22. To turn off a setting that is currently on, click the word **ON**. To turn on a setting that is currently off, click the word **OFF**. Use the following table for guidance.

Setting	When On
Sidekick Uploads Enabled	With a pilot key plugged in, all data from any flight you fly are automatically updated to the Redbird Cloud
Anonymous Mode Enabled	Can fly without a pilot key plugged in
Free Flight Enabled	Can create Free flights in Dispatch application
Scenario Store Enabled	Can download scenarios from the Scenario Store application
Find My Sim Enabled	Your sim appears on the Find My Sim map available at redbirdflight.com .
Require Password...	Password required to restart and shutdown the simulator
Use Metric Units	Data displayed on navigator screen are in metric units
Apply Critical Updates	Critical updates are installed without having to go through the update procedure

23. To set the stability of the Navigator software, click the down arrow on the **Desired Software Stability** menu.



24. Select from the following choices:

- **Stable:** for most users
- **Beta:** for use only if you're part of a beta program with Redbird, or have been directed to do so by a Redbird representative; some features of the software may not work

25. To set the name of the simulator, enter a descriptive name into the **Name** textbox in the Sim Customization Settings area. For example, “Steve’s Flight School FMX.”

Name	<input type="text" value="Humpty Dev Box"/>
Tail Number for C172-FC-G003	<input type="text" value="N172RB"/>
<input type="button" value="SAVE"/>	

26. To set the tail number of the acrylic panel that's currently plugged in, enter the tail number into the **Tail Number** textbox.
27. Once you enter the changes, the Save button will activate. Click the **Save** button.

NOTE: Sim Admin Settings are intended for the person responsible for management or support of the simulator. Regular users do not need access to these settings.

28. To update the Sim Admin Settings, change the name in the **Name** textbox, change the email in the **Email** textbox and/or change the phone number in the **Phone Number** textbox.
29. Once you make the change(s), the Save button will activate. Click the **Save** button.
30. To change the Sim Admin password, click Change Password at the bottom of the Sim Admin Settings area.

CHANGE PASSWORD

SAVE

31. Enter the new password twice and click **Save**.

Support tab

32. To contact support, on the left side menu click **Support**.

33. The Support tab appears.

Contact Support

Your First Name

Your Last Name

Your Email Address

Please Describe the Issue

CANCEL

OPEN SUPPORT CASE

34. Enter your first name, last name, email address and a description of the issue in the appropriate text fields.

35. Click the **Open Support Case** button. A copy of the support request email is sent to you, Redbird Support, and the Sim Administrator.

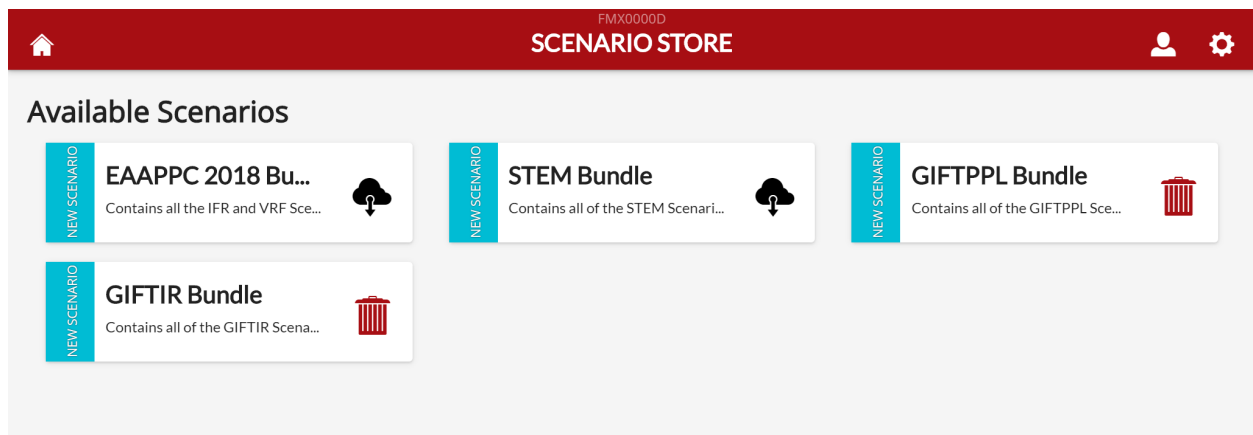
NOTE: During Redbird business hours, typical customer support response time is under one hour. Otherwise, it's the following business day.

Using the Scenario Store Application

36. To launch the Scenario Store application, go to the Navigator Springboard and click the Scenario Store icon.



37. The Scenario Store page appears.



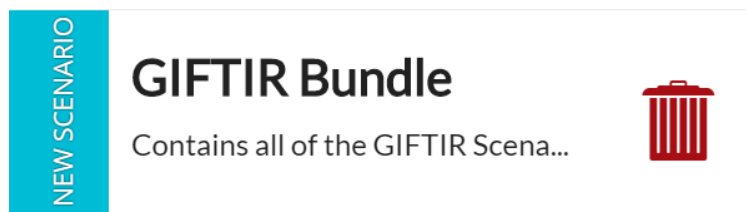
NOTE: Scenarios are bundles of flights. They are how GIFT and other Redbird packaged flight scenarios are distributed. You may download GIFT bundles, but will need a GIFT license to activate and fly GIFT bundles.

38. To download a scenario from the Scenario Store, click the black cloud icon next to the title.



NOTE: If a scenario does not have a black cloud icon and instead has a red trash can, it means you've already downloaded that scenario.

39. To delete a scenario from the Scenario Store you've already downloaded, click the red trash can icon to the right of the title.



Using the Dispatch Application

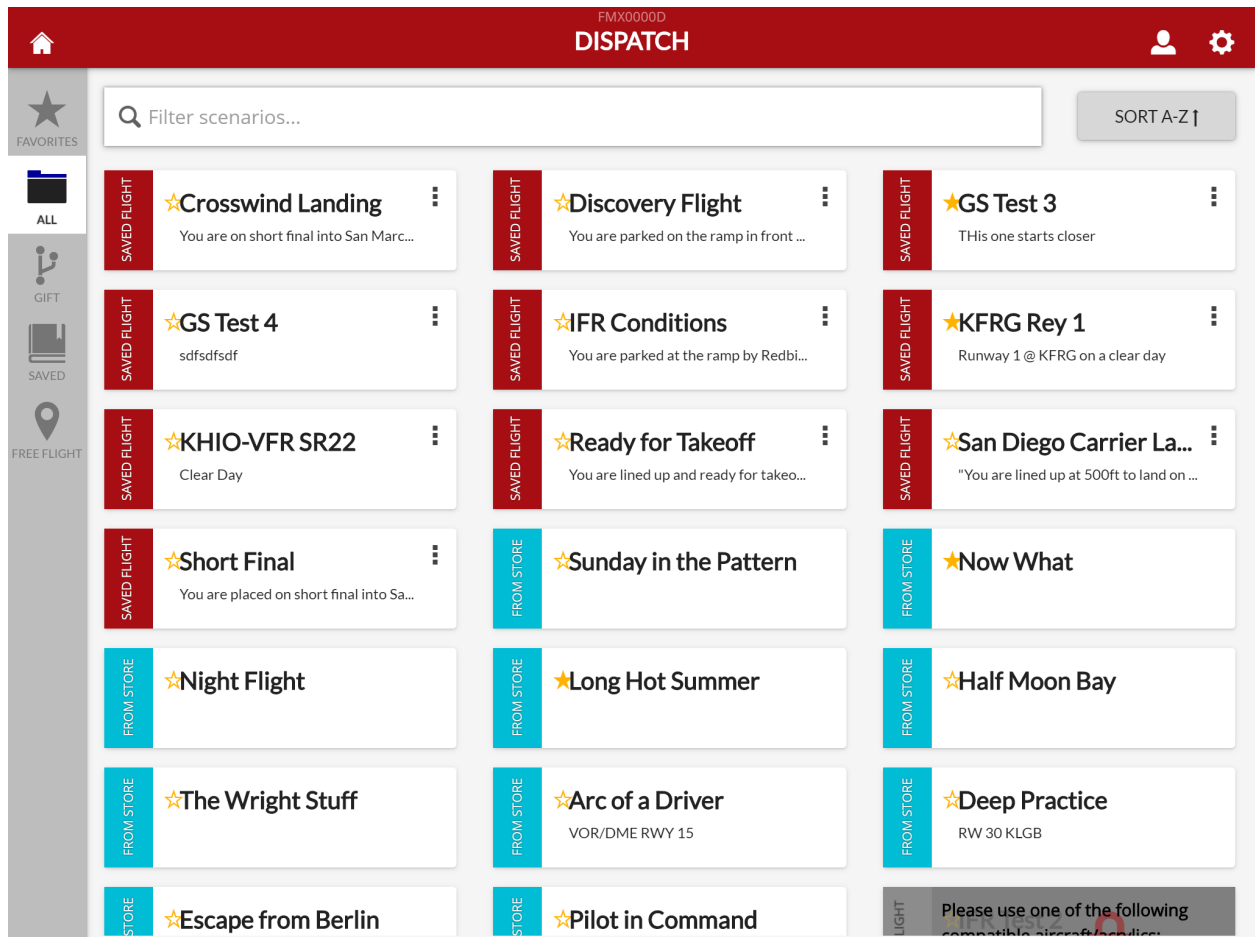
NOTE: Dispatch is where you go to see all of your flights. These include flights you've downloaded from the Scenario Store.

40. To launch the Dispatch application, from the Navigator Springboard, click the Dispatch icon.



41. The Dispatch page appears with the All tab selected.

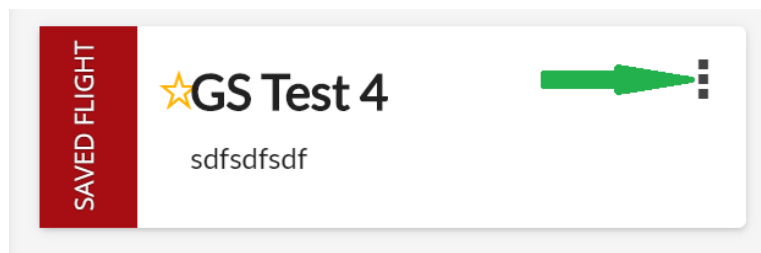
All tab



NOTE: Flight color code:

- Red: saved flight (i.e., stored on local machine, usually a flight saved by a user)
- Blue: downloaded from the Scenario Store
- Green: GIFT flight

42. To edit the title, description, and tags of a saved flight, click on the menu icon (green arrow) for that flight.



43. The Editing Scenario screen appears.

A screenshot of the 'EDITING SCENARIO "ARC OF A DRIVER"' screen. The title bar is red with a close button (X) on the right. Below the title bar, there are two text input fields: 'Title' with the value 'Arc of a Driver' and 'Description' with the value 'VOR/DME RWY 15'. Below these fields is a section for tags, labeled 'Add New Tag' with a plus sign icon. Underneath is a section for 'Current Tags' which says 'No tags added yet'. At the bottom of the screen are two large buttons: a green 'SAVE SCENARIO' button and a red 'DELETE SCENARIO' button.

44. To change the title of the scenario, enter a new title in the **Title** textbox.

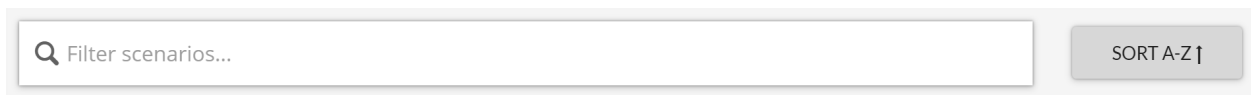
45. To change the description of the scenario, enter a new description in the **Description** textbox.

NOTE: One thing you can do to make flights easier to find in the future is to add descriptive tags to the flight. Tags are short, typically one or two words. You can add as many tags as you'd like.

46. To add a searchable tag to a flight, enter the tag in the **Add New Tag** field and click the "+" to the right. Repeat the process for any additional tags.
47. After you've made all your edits, click the green **Save Scenario** button.

NOTE: The list of scenarios in Dispatch can get long. If there are some scenarios you're sure you won't use again, you may want to delete them.

48. To delete the scenario from Dispatch, click the red **Delete Scenario** button.
49. To locate a flight in Dispatch, you can scroll through the list or you can use the search box at the top.

A screenshot of a user interface for searching scenarios. It features a white search box with a magnifying glass icon and the placeholder text "Filter scenarios...". To the right of the search box is a grey button with the text "SORT A-Z |".

Q Filter scenarios...

SORT A-Z |

50. To use the search box, enter the title of the flight or a tag and hit **Enter**. The flights with that search criteria will appear.
51. You can always sort the list of flights—before or after a search—by clicking the **Sort A-Z** button to the right of the search box.
52. To remove the search criteria, click the "X" on the right end of the search box.

NOTE: If there's a scenario you use frequently, you may want to favorite it to make it easier to find in the future.

Favorites tab

53. To make a scenario a favorite, click the yellow star to the left of the scenario title. The yellow star fills in when it becomes a favorite and it is added to the Favorites tab.

SAVED FLIGHT

★GS Test 3

THis one starts closer

⋮

54. To quickly locate your favorites, click the **Favorites** tab the left side menu.

FMX0000D

DISPATCH

⋮

⋮

FAVORITES

ALL

GIFT

SAVED

📍

Filter scenarios...

SORT A-Z ↑

SAVED FLIGHT

★GS Test 3

THis one starts closer

SAVED FLIGHT

★KFRG Rey 1

Runway 1 @ KFRG on a clear day

FROM STORE

★Now What

FROM STORE

★Long Hot Summer

GIFT FLIGHT

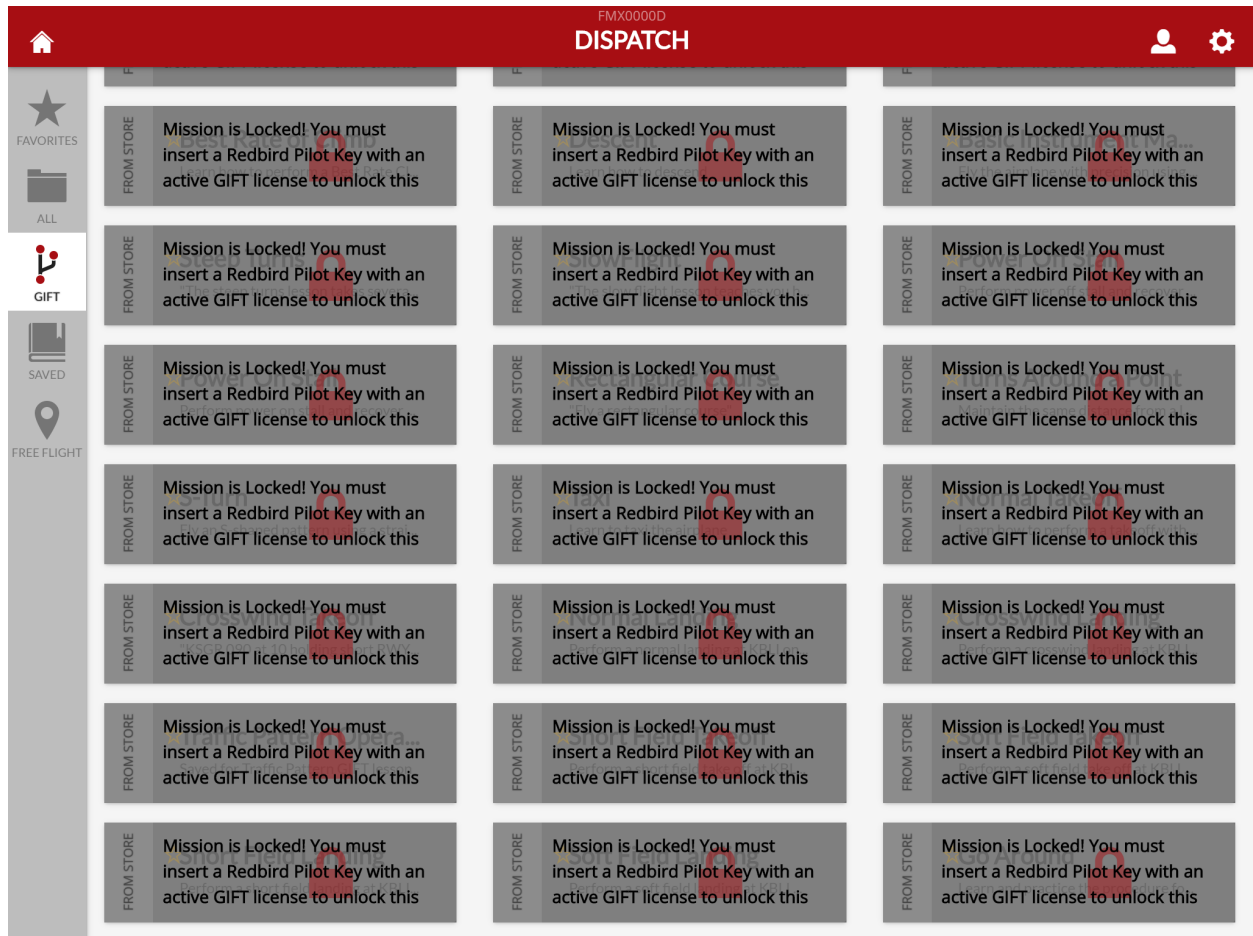
★CDIGSI - Kurt

"Create a new save file."

55. To remove a flight from Favorites, click the filled-in yellow star. It becomes unfilled and no longer appears in the Favorites menu, though still appears in its original menu.

GIFT tab

56. To view your GIFT flights, click the **GIFT** tab on the left side menu. The GIFT tab appears.



NOTE: Greyed-out GIFT scenarios are locked. You will need a PIN code to unlock them.

57. To unlock GIFT flights, and you haven't done so already, plug a pilot key with an activated GIFT license on it into the USB port on the front simulator panel (Pilot Key USB slot) and a PIN keypad will appear.

ENTER YOUR PIN

• • • •

1

2

3

4

5

6

7

8

9

0

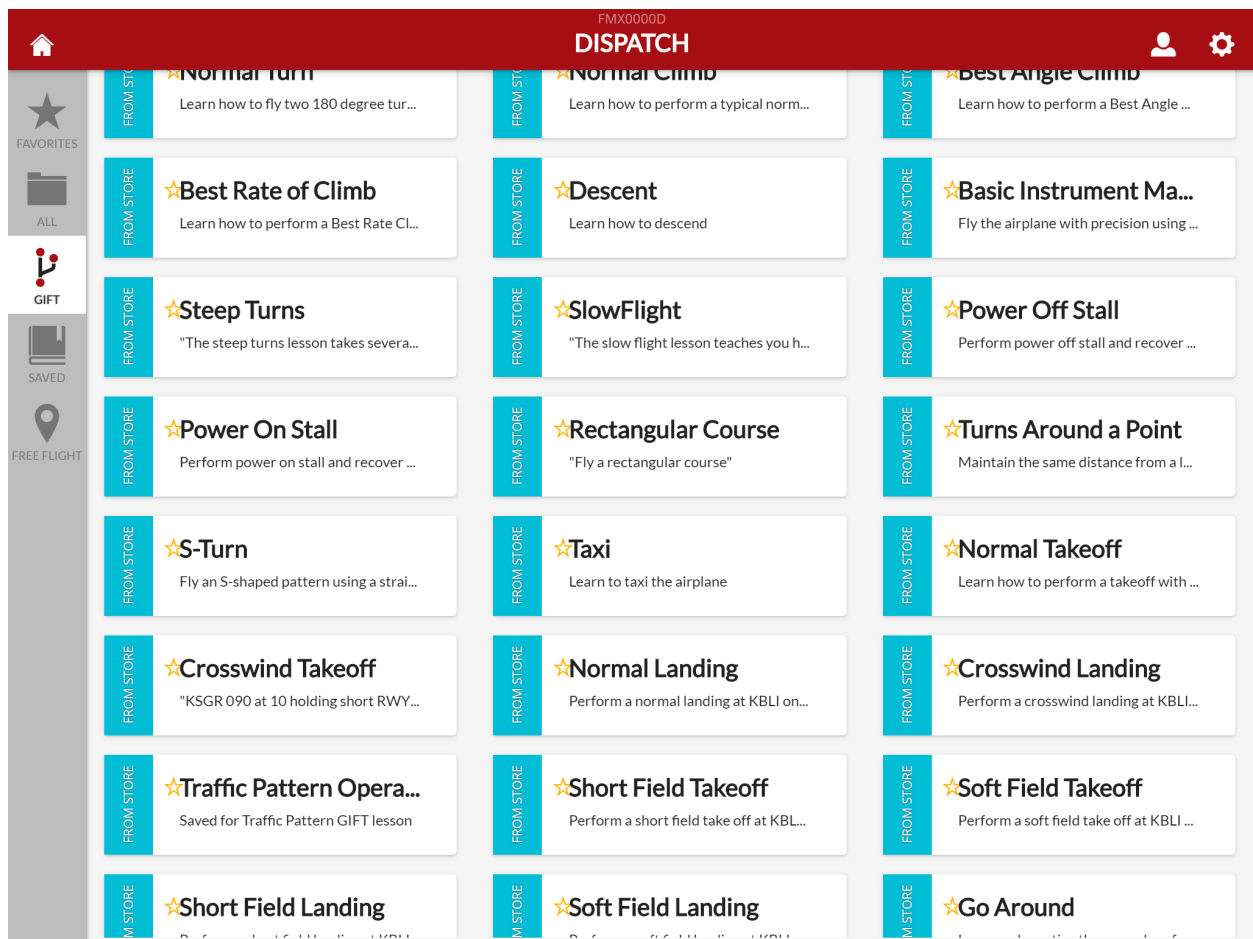
SUBMIT CODE

CLEAR

CANCEL

NOTE: If using a Jay or TD/TD2, use any available USB port on the simulator computer.

58. Enter your PIN code and click the green **Submit Code** button at the bottom. The GIFT flights are unlocked.



NOTE: Plugging in a pilot key logs you into the Navigator system. To logout, click the person icon in the upper right corner of the page and then click **Logout**.

59. To start a GIFT flight, click the flight title in the list. The Confirm Flight Start Dialog appears.

CONFIRM FLIGHT START

ILS

ILS 36 at KOSH

Aircraft
C172-FC-G003

OPTIONS

Motion System ☐ OFF

FLIGHT OPTIONS

Approach Entry

Surprise Me ☐ OFF

Entry Type

No PT ▼

Start heading 320 to intercept straight in.

Final Approach Speed

90 ▼

Additional Options

Surprise Me ☐ OFF

Winds ☐ OFF

Partial Panel ☐ OFF

Circle to Land ☐ OFF

Go Missed ☐ OFF

NOTE: For GIFT flights, the Confirm Flight Start dialog provides options you can select before you start your flight. The image above is specific to an ILS flight. Different flight types will have slightly different options to choose from. All flights have the option to turn on the motion system.

60. To turn on the motion system, click the word **OFF** to the right of Motion System in the Options section of the dialog.

NOTE: All GIFT flights have Surprise Me option in the Additional Options section. The Surprise Me option chooses a random combination of all the options below it, including not choosing any at all.

61. To turn on Surprise Me, click the word **OFF** to the right of Surprise Me in the Additional Options section.

62. To fly the GIFT flight with in-flight coaching, click the word **OFF** to the right of With Coaching.

63. When you're ready to start the GIFT flight, click the **Start Flight** button at the bottom of the Confirm Flight Start dialog.

Saved tab

64. To see your saved flights, click on the **Saved** tab on the left side menu.

Free Flight tab

65. To create a Free flight, click the **Free Flight** tab on the left side menu. The Free Flight menu appears.

The screenshot displays the DISPATCH interface for creating a free flight. The top header is red with a home icon, the text 'FMX0000D DISPATCH', and user/settings icons. The left sidebar contains 'FAVORITES' (star icon), 'ALL' (folder icon), 'GIFT' (gift icon), 'SAVED' (book icon), and 'FREE FLIGHT' (location pin icon). The main area is divided into four panels: POSITION, TIME, WEATHER, and OPTIONS. The POSITION panel shows a search for 'khyi' and a list of airports, with 'KHYI: San Marcos Mun' selected. Below the airports is a list of runways: RWY 4, RWY 8, RWY 13, RWY 17, RWY 22, RWY 26, RWY 31, and RWY 35. The TIME panel has buttons for DAWN, DAY (selected), DUSK, and NIGHT. The WEATHER panel includes fields for Visibility (50 SM), Wind (360°, 0 KT), Cloud Coverage (SKC 0/8), Cloud Base (0 MSL), Precipitation Type (None), and Precipitation Rate (Very Lig). The OPTIONS panel has a Motion System toggle set to OFF. At the bottom right are 'RESET' and 'START FLIGHT' buttons.

POSITION	TIME	WEATHER	OPTIONS
<p>Start From</p> <p>Q khyi</p> <p>AIRPORTS</p> <p>KHYI: San Marcos Mun San Marcos, Texas, United States</p> <p>RUNWAYS</p> <p>RWY 4</p> <p>RWY 8</p> <p>RWY 13</p> <p>RWY 17</p> <p>RWY 22</p> <p>RWY 26</p> <p>RWY 31</p> <p>RWY 35</p>	<p>DAWN</p> <p>DAY</p> <p>DUSK</p> <p>NIGHT</p>	<p>Visibility: 50 SM</p> <p>Wind: 360°, 0 KT</p> <p>Cloud Coverage: SKC 0/8</p> <p>Cloud Base: 0 MSL</p> <p>Precipitation Type: None</p> <p>Precipitation Rate: Very Lig</p>	<p>Motion System: OFF</p>

NOTE: Free flights allow you to create your own custom flight and start from anywhere on the ground or in the air.

66. To start a flight on a runway, input a valid ICAO identifier for the airport you want to take off from the **Start From** textbox located in the Position column. The airport appears in the Airports list.

POSITION

Start From

Q

khyi

X

AIRPORTS

KHYI: San Marcos Mun
San Marcos, Texas, United States

RUNWAYS

RWY 4

RWY 8

RWY 13

RWY 17

RWY 22

RWY 26

RWY 31

RWY 35

67. Click on the airport and then select a runway to take off from. Upon starting the flight, you will be lined up for takeoff on the selected runway.

POSITION

Start From

Q

KHYI: San Marcos Mun

X

Runway

RWY 17

▼

IN AIR

ON GROUND

68. To start a flight in the air, click the **In Air** button.

NOTE: When you choose to start a flight in the air, by default, the airplane is positioned on a 5 mile final at 1,000 feet AGL for the runway you've selected. However, you may change the plane's position and airspeed as desired in the fields below.

POSITION

Start From

KHYI: San Marcos Mu

X

Runway

RWY 8 ▼

IN
AIR

ON
GROUN

Heading

81 °

AGL/MSL

MSL

Radial

261 °

Altitude

2097 MSL

Distance

5 NM

Airspeed

90 KT

69. Change any of the following **In Air** fields as desired:

- **Heading:** in degrees
- **Radial:** in degrees FROM airport
- **Distance:** in nautical miles
- **AGL/MSL:** select one
- **Altitude:** in AGL or MSL
- **Airspeed:** in knots

70. In the Time column, click on the time of day you want to take off (or land).

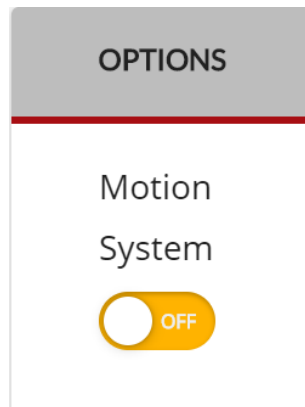
TIME
DAWN
DAY
DUSK
NIGHT

71. From the Weather column, make the following selections:

- **Visibility:** in statute miles
- **Wind Direction:** in degrees
- **Wind Speed:** in knots
- **Gusting To:** in knots
- **Turbulence:** choices are None; Light; Moderate; Heavy; Severe
- **Cloud Coverage:** choices are SKC; FEW; SCT; BKN; OVC
- **Cloud Base:** feet MSL
- **Precipitation Type:** choices are None; Rain; Snow
- **Precipitation Rate:** choices are Very Light; Light; Moderate; Heavy; Very Heavy

WEATHER	
Visibility	Cloud Coverage
50 SM	SKC (0/8 ▼)
Wind Direction	Cloud Base
360 °	0 MSL
Wind Speed	Precipitation Type
0 KT	None ▼
Gusting To	Precipitation Rate
0 KT	Very Lig ▼
Turbulence	
None ▼	

72. In the Options column, to turn motion on, click the motion system switch so that it is green and says **On**. To turn motion Off, click the switch again.



NOTE: In the Redbird Jay model simulator you will also be able to choose the aircraft type. In the Redbird TD and TD2, you may choose if your Cessna has a high performance engine, retractable gears, and/or constant speed prop. Selecting high performance engine and constant speed prop essentially turns your airplane into a Cessna 182.

73. When you have the Free flight parameters set as desired, click the **Start Flight** button at the bottom right of the Dispatch tab.



NOTE: Navigator will not let you start a second flight when one is already in progress.

74. The Your Flight is Loading dialog appears.

YOUR FLIGHT IS LOADING

Please Note:

If the current session will be used for instrument experience/currency requirements required by 14 CFR part 61.57(c), the visual component during instrument approaches must be configured to Instrument Meteorological Conditions [IMC] until reaching Decision Height [DH], Decision Altitude [DA], or Minimum Decent Altitude [MDA] as appropriate.

✓ Acrylic: SR20-XX-G002	<1ms
✓ Switch Panel	<1ms
✓ Yoke	<1ms
✓ Throttle	<1ms
✓ Pedals	<1ms
✓ Internet	1ms
✓ Motion System	<1ms

75. After the flight loads, the Flight in Progress dialog appears.

FLIGHT IN PROGRESS - FREE FLIGHT

Please Note:

If the current session will be used for instrument experience/currency requirements required by 14 CFR part 61.57(c), the visual component during instrument approaches must be configured to Instrument Meteorological Conditions [IMC] until reaching Decision Height [DH], Decision Altitude [DA], or Minimum Decent Altitude [MDA] as appropriate.

UNPAUSE FLIGHT

END FLIGHT

LAUNCH INSTRUCTOR STATION

NOTE: The image above is indicative of a Free flight. If it was an ILS flight it would include a link to the approach plate and show a checklist.

76. To pause the flight, click the **Pause Flight** button.

77. To unpause the flight, click the **Unpause Flight** button.

78. To end the flight, click the **End Flight** button.

79. To launch Instructor Station, click **Instructor Station** at the bottom of the dialog.

NOTE: For technical support, contact the Redbird Technical Support Team using the Navigator support menu explained earlier in this document, or via email at support@redbirdflight.com, or by calling +1 512-301-0718 between the hours of 7am-6pm U.S. Central Time (-5/-6 UTC) Monday - Friday, excluding normal U.S. holidays.