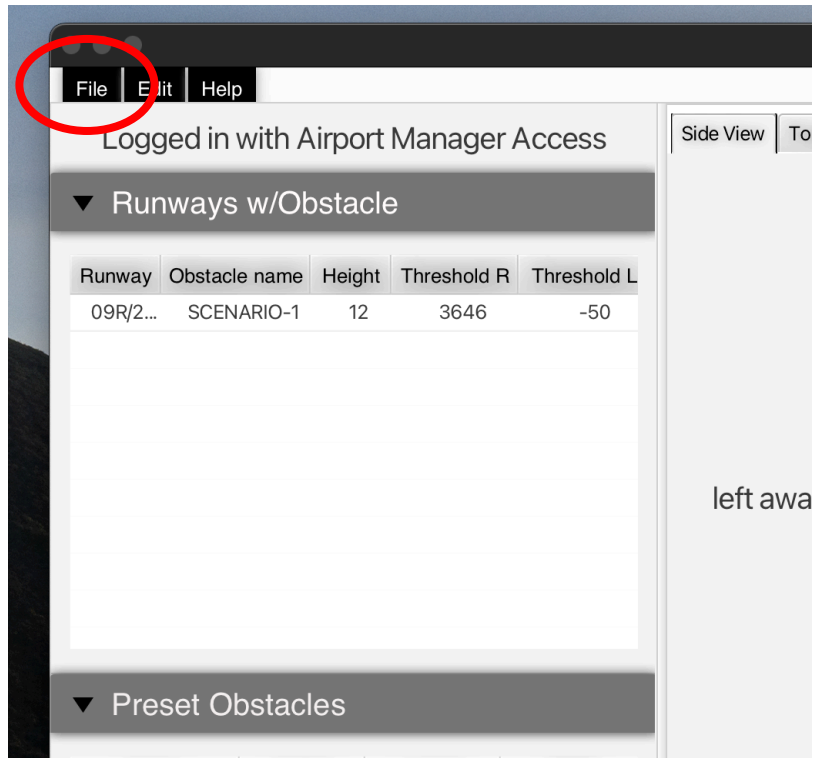


USER MANUAL

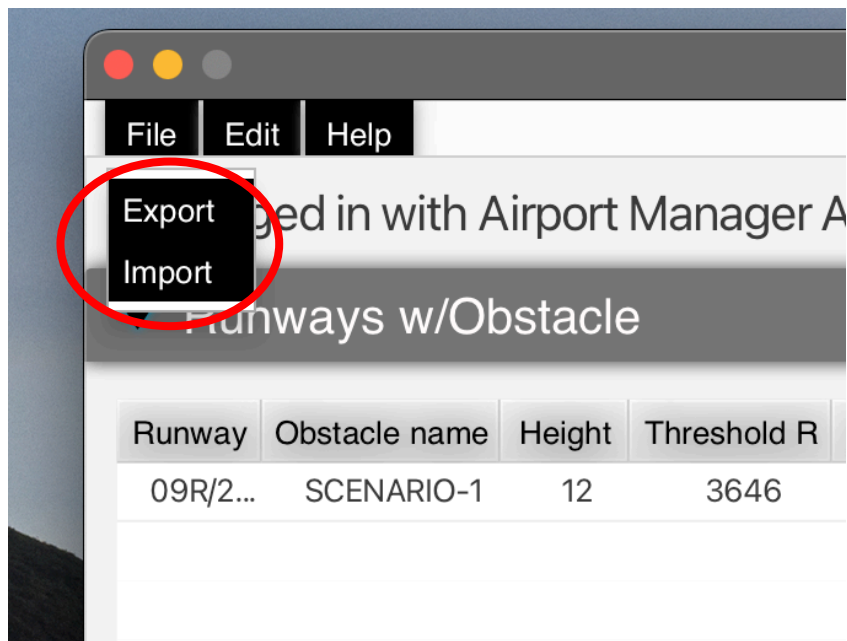
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1. How to navigate the Menu
 - a. Importing and Exporting:
 - i. Login as Airport Manager.
 - ii. Direct your view to the top left of the page.



- iii. Click on the "File" button.

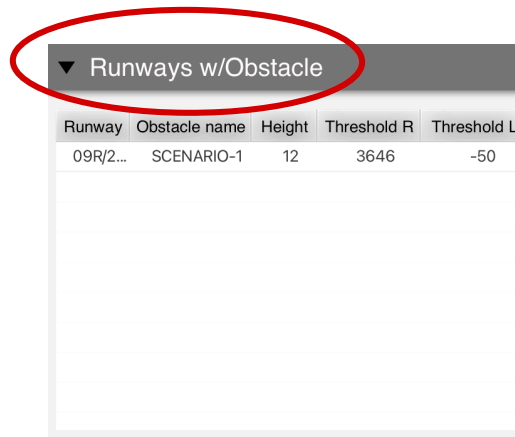


- iv. Now you can either select import/export depending on what you wish to do.

2. Viewing of Data/Values

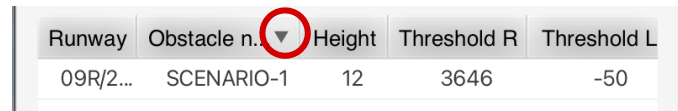
a. Runways with obstacle:

- i. Direct your view to the top left pane of the page titled Runway w/Obstacle.



▼ Runways w/Obstacle				
Runway	Obstacle name	Height	Threshold R	Threshold L
09R/2...	SCENARIO-1	12	3646	-50

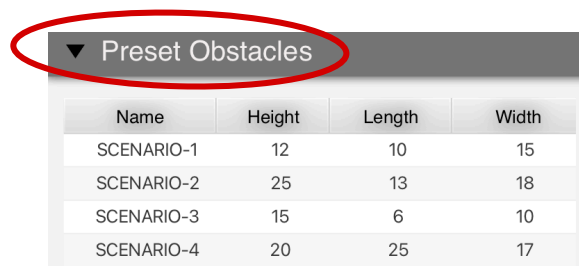
- ii. Here you can see values of the runways with obstacles.
- iii. You can sort the values in order of descending/ascending simply by interacting with the small triangle next to the title of the table.



Runway	Obstacle n. ▼	Height	Threshold R	Threshold L
09R/2...	SCENARIO-1	12	3646	-50

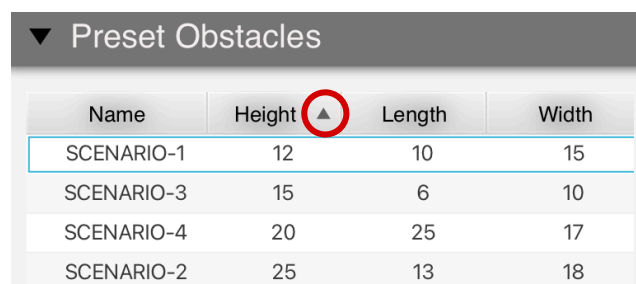
b. Preset Obstacles:

- i. Navigate yourself to the bottom left pane of the page that is titled "Preset Obstacles" above the logout and refresh buttons.



▼ Preset Obstacles			
Name	Height	Length	Width
SCENARIO-1	12	10	15
SCENARIO-2	25	13	18
SCENARIO-3	15	6	10
SCENARIO-4	20	25	17

- ii. Here you can view the values/data of all the pre-set Obstacles that are already logged previously in the system.
- iii. You can also sort the values in order of descending/ascending simply by interacting with the small triangle next to the title of the table.

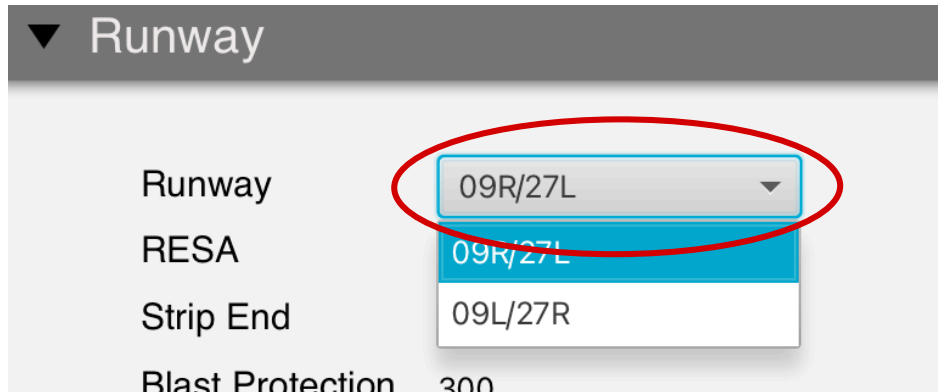


▼ Preset Obstacles			
Name	Height ▲	Length	Width
SCENARIO-1	12	10	15
SCENARIO-3	15	6	10
SCENARIO-4	20	25	17
SCENARIO-2	25	13	18

3. Runway

a. Selecting Runway:

- i. Navigate yourself to the top left pane of the page labelled “Runway”.
- ii. Here you can select the desired runway simply by selecting from a list in a drop down box.



▼ Runway

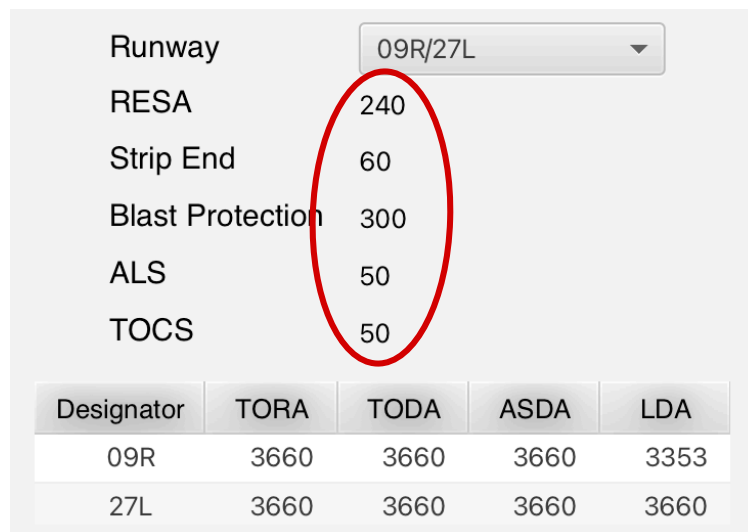
Runway 09R/27L ▼

RESA 09R/27L

Strip End 09L/27R

Blast Protection 300

- iii. Then you can view all the fixed data below the drop down box.



Runway 09R/27L ▼

RESA 240

Strip End 60

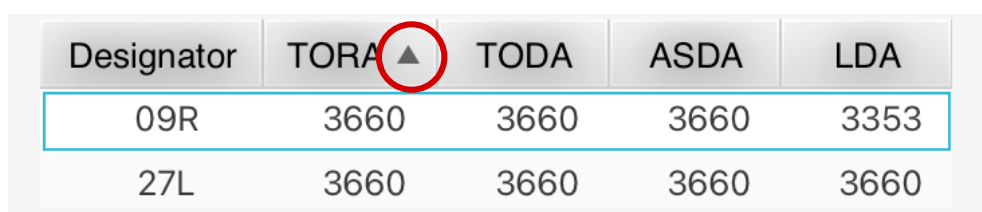
Blast Protection 300

ALS 50

TOCS 50

Designator	TORA	TODA	ASDA	LDA
09R	3660	3660	3660	3353
27L	3660	3660	3660	3660

- iv. Here you can also view the values of TORA, TODA, ASDA, LDA.
- v. You are also able to sort the values in order of ascending/descending simply by interacting with the triangle next to the titles on the table itself.

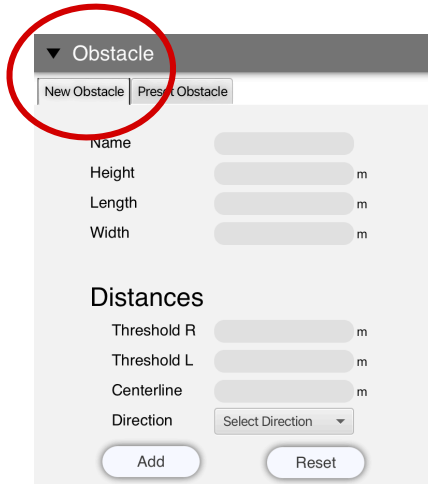


Designator	TORA ▲	TODA	ASDA	LDA
09R	3660	3660	3660	3353
27L	3660	3660	3660	3660

4. Obstacle

a. Adding new Obstacle:

- i. Navigate yourself to the bottom right pane of the page where its titled "Obstacle".
- ii. Then you will be able to see two menu options.
- iii. Select "New Obstacle" and it will change to its respective page.

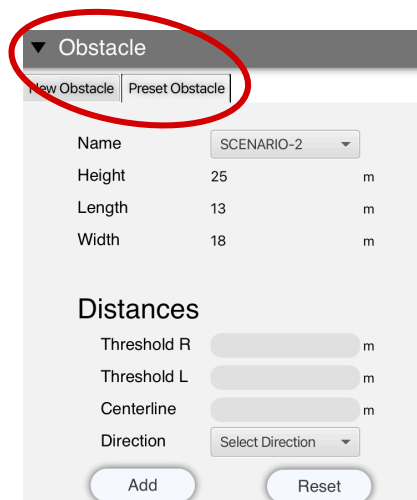


The screenshot shows the 'Obstacle' panel with a red circle around the 'New Obstacle' tab. The panel contains input fields for Name, Height, Length, and Width, each followed by a unit 'm'. Below these is a 'Distances' section with input fields for Threshold R, Threshold L, and Centerline, each followed by a unit 'm'. There is also a 'Direction' dropdown menu with the text 'Select Direction'. At the bottom are 'Add' and 'Reset' buttons.

- iv. Here you can add the values of the obstacle you wish to add to the system as well as its systems.
- v. Once you have added the values and click on the "Add" button it will add the new obstacle to the list of preset obstacles and you'll be able to see it on the Preset Obstacle section of the page.
- vi. Then you will have to go to the Preset Obstacle section to add the obstacle onto the runway visualization.

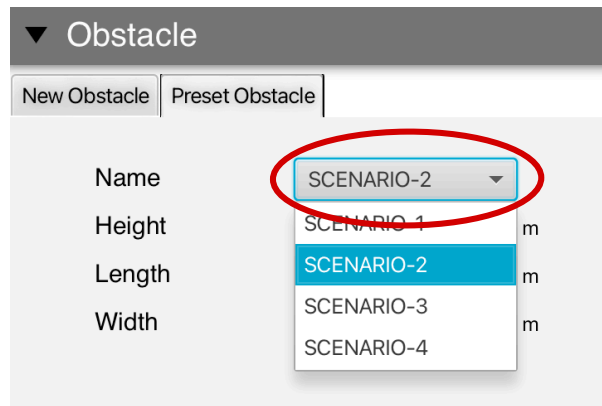
b. Selecting a preset Obstacle to add to the runway visualization:

- i. Navigate yourself to the bottom right pane of the page where its titled "Obstacle".
- ii. Then you will be able to see two menu options.
- iii. Select "Preset Obstacle" and it will change to its respective page.



The screenshot shows the 'Obstacle' panel with a red circle around the 'Preset Obstacle' tab. The panel displays a list of preset obstacles with the following values: Name (SCENARIO-2), Height (25 m), Length (13 m), and Width (18 m). Below this is a 'Distances' section with input fields for Threshold R, Threshold L, and Centerline, each followed by a unit 'm'. There is also a 'Direction' dropdown menu with the text 'Select Direction'. At the bottom are 'Add' and 'Reset' buttons.

- iv. Here you can select the obstacle you wish to add on the runway by interacting with the drop down box next to the “Name” text.



- v. Once you have selected the obstacle, you can then add the values for distances and select its direction.
- vi. After filling in all the values you can click on the “Add” button and it will be added to the runway visualization.

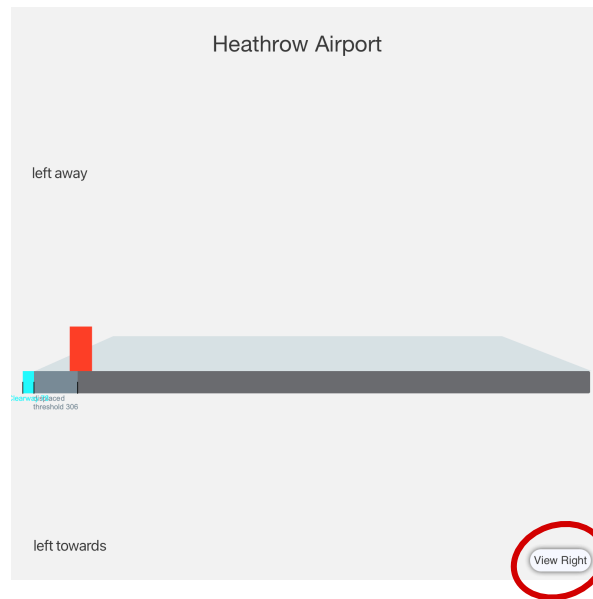
5. Main Visualization

a. Side View:

- i. Navigate yourself to the top of the middle pane on the page.



- ii. Select “Side View”.
- iii. Here you are able to see the selected runway as well as the direction it is facing from a side view.
- iv. You can also change the view by clicking the “View Right” button at the bottom of the pane.



b. Top Down View:

- i. Navigate yourself to the top of the middle pane on the page.



- ii. Select “Top Down View”.
- iii. Now you are able to see the selected runway as well as the direction it is facing from a top down view.
- iv. You can also change the view by clicking the “View Right” button at the bottom of the pane.

