USER GUIDE
Runway Redeclaration Tool

This is a short user guide to the Runway Redeclaration Tool made by Group 20:
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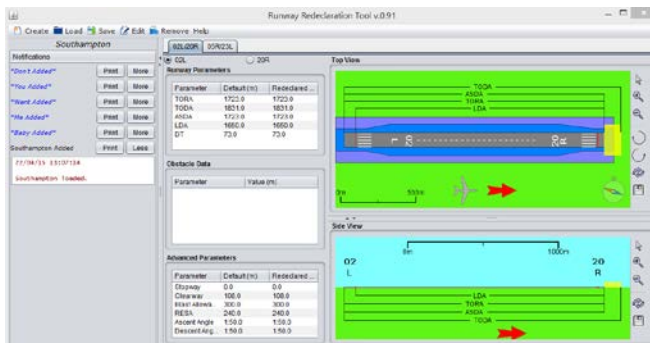
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Software Description

The Runway Redeclaration Tool is Java based program designed to assist with the event of obstacles on an airfield. This tool is designed to be faster than the previous paper based system and more informative. There are many features designed to help the runway controller operate:

Requires Java 1.8 update 40 Consumer Edition.

Getting Started

Welcome to the imaginatively named called welcome screen, from here you can create a new airport or load saved airports. We have supplied you with a number of Airports also so you can jump straight in!

When you load/create and airport you are presented with the workspace. This is the workspace with Southampton Airport loaded.
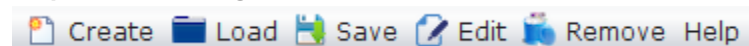

On the top left you can see the name of the **active airport**, at the top middle you can see which **airfield** is active by the blue highlighting of the tabs. We can see which side of the **runway** we are focusing on. (The direction selected is decided by choosing a threshold to start from, the arrow in the views show which way you are heading)
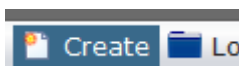
On the left is the **Notification panel**, in the centre are the tables that hold all (original and redeclared/current) values and on the right is a side on and top down visual representation.
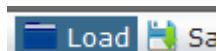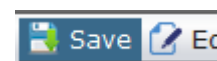
Top Menu Navigation

The Top Menu contains a number of buttons that the user can interact with. Each button has a sub menu that shows different variations in user commands:

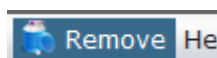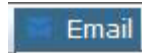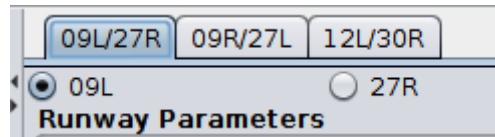|	
	The user can create airports, airfields or obstacles. Depending on user progress, certain buttons may not be active.
	The user can load a previously saved or given airport or obstacle.
	The user can save airports or obstacles either in the default folder or in a specific folder ('Save As' option). Either of the views can also be saved (.png).
	The user can edit parameters of the present runway or obstacle.
	Obstacles and airfields can be removed from the workspace.

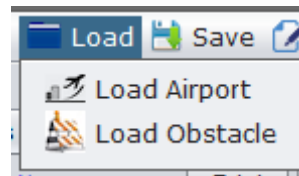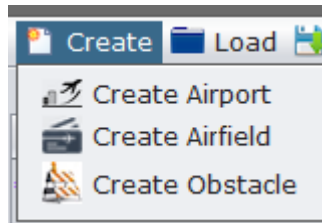|	
Email	Setup an email to receive email notifications and the option to disable email notifications.

Help	Features a large source of help with FAQs and a Getting Started slideshow to help you when stuck.

Alternating between runways, airfields and Airports

09L/27R	09R/27L	12L/30R

◉ 09L   ○ 27R
Runway Parameters

The user can alternate between runways directions by pressing the above radio buttons.
The user can alternate between airfields (runways) by clicking the relevant runway tab.

🗋 Create 📁 Load 💾
 ✈ Create Airport
 📷 Create Airfield
 ⚠ Create Obstacle

📁 Load 💾 Save 📝
 ✈ Load Airport
 ⚠ Load Obstacle

The user can switch to a new airport by clicking 'Create'->'Airport' or 'Load'->'Airport'.

Manipulating the Views

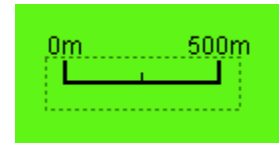Each view has a number of tools or functions on the right hand side as well as a few mouse capabilities.

Tools

⬉	**Default Tool**: This is the default tool, this tool allows you to use the compass and move the scale
🔍	**Zoom In Tool**: Allows you to zoom focussed on where you clicked
🔍	**Zoom Out Tool**: Allows you to zoom out focussed on where you clicked
↻	**Rotate Clockwise Button**: Clicking will rotate the view 10° clockwise (without changing the tool)
↺	**Rotate Anti-Clockwise Button**: Clicking will rotate the view 10° anti-clockwise (without changing the tool)
🔃	**Refresh Button:** Resets the zoom, rotation, location and scale location to default (without changing the tool)
💾	**Save View Button**: Saves an image of the view to a location of user's choosing (without changing the tool)

Mouse Controls

- **Mouse Wheel**: Scrolling the wheel allows you to zoom in or out
- **Click and Drag:** This allows you to pan and navigate the view

Scale

Hovering over the scale in the default tool allows you to move the scale without affecting the view underneath. The scale will move so that the left edge is under the cursor. This allows you to drop it, catch the right edge and move it a small amount so that you can actually measure distances.
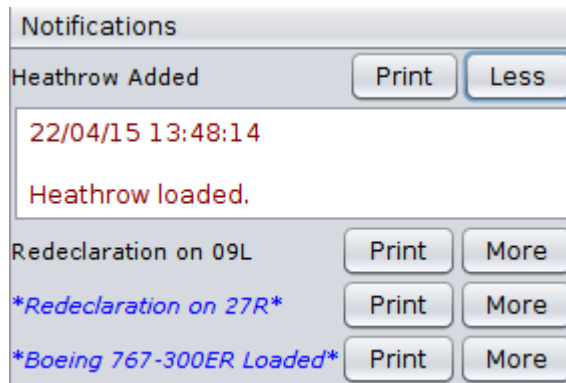
Compass

Hovering over the compass with the default will make it go opaque. This means that you can click it to reorient the view, making it point north.

Notifications

New notifications are shown in italic blue, once expanded they become black. They can all be expanded or collapsed the notification by clicking 'More' or 'Less'. The notification can also be printed.

The text in the expanded notification is maroon for file related, red for errors prevented and purple is for the breakdown of calculations, black is standard alerts.

They can all be printed as well!

Email Capabilities

You can set up the email notifications via the 'Email' menu option. A tick shows that they are active, you will receive notifications from runway.redeclaration.tool@gmail.com

Further Help

If you're looking for information fast, as well as this user guide the program it also features a number of simple help options.

Getting Started Option

This option will present you with a basic run-through of how to use the application, covering essentials such as loading, saving, and the basic functions of each panel.

FAQ option

The Frequently Asked Questions guide provides a list of fairly commonly asked questions, with answers intended to reveal less obvious functionality of the application that can make life much easier for the user.