Search management tools

INTRODUCTION

The objective of this feature is to facilitate the coordination of teams working in the field in the search for missing persons.

ACTIVATING SEARCH FUNCTIONS: First, make the functions visible. Go to Settings in the app, and on the first page, at the bottom > Search and Rescue Tools > Show SAR options. They are now visible in the main menu!

There are some 'administrator' features, which is the person who creates the search and all the data related to it. This feature will be part of OruxMaps itself. **It may be offered in the future as a subscription service.**

The search features will be offered from OruxMaps, and from a simple app that will be offered on Google Play, independent of OruxMaps itself, for free.

MANAGER FUNCTIONS

They are found in the left side menu (accessed from the leftmost button on the top button bar):



From 'Search and rescue tools' we access the lists:



The lists are:

1. **Searches**: all the searches that we manage. From there we can create ('+' button above)/modify/delete (click on the search to edit) the searches.



2. **Targets**: all the people to search for that we have in the searches that we manage. If we click on one of them, we can edit/view it, if it is an target created by us



3. **Teams**: all the search teams that we have created.



4. **Areas**: the geographic areas that we have been creating, delimiting search areas, either global for a search **session**, or as a delimitation/path for a specific **team**. Just like the previous ones, by clicking on one, you can edit/view properties.

	← Areas	:
	area 1	
Edit area	la 1 de todos	
	Área de búsqueda 4	
	Entorno complicado	

5. **My searches as a team**: For when the user has been a searcher, this may be eliminated in future versions,... it is similar to list 1., but the searchers cannot edit the searches, only start their participation in those in which they are search teams, we will see this later.

Search

- A **search** requires one or more **targets** (the person(s) to be searched for).
- A **search** is made up of multiple **search sessions** (we can search for several days, each day, with different **search areas** and search **teams**).
- A **search session** is defined by a global **search area** (optional) and by a set of **teams**, each of which has an **area** of responsibility (optional).

From the **search** view we can:

- Edit **search** property fields (name, description, start and end dates of the search). We will see the usefulness of these fields in due time, especially the dates.
- Start recording a **search session** (from the 'record' button on the top bar).
- Full synchronization (top action bar, more button). With this action, all the data of that serach will be downloaded, including the path of the search teams.
- Add/edit targets or sessions.

	Search < 🖸 🔀 🗸	
Export data as KM7	Name Lucas Description By scando a Lucas mi hijo	Start the search management
	Starting: SUNDAY, DECEMBER 29, 2024 Ending:	
	Targets People to locate	Add target
Edit target	Lucas Pilucas Thursday, December 26, 2024 6 años, le gusta esconderse en cualquier agujero Found:	Add session
	Sessions Each of the search sessions to be carried out	
Edit session	Primera sesión Sunday, December 29, 2024 El primer día de búsqueda nos centraremos en el camino donde se perdió Ending: Friday, January 31, 2025	
	Segunda sesión	

The record for each target contains the basic data, to which we can add photos. Important data will be the date of location (if set, it closes the search for that person) and the location coordinates.

If during a search we update the record of a target, and it has a location date prior to the current one, when this data is synchronized with the search engines, they will receive a notice that the target has already been located.

The coordinates where the target was found can be saved.

We can add photos, so that they will be viewed by the search teams.

Target	×	✓	
Name Lucas Pilucas			
6 años, le gusta	esconderse en cualquier agujero)	
Date of loss:	THURSDAY, DECEMBER 26, 2	2024	
Date of location:			Add photo
Coordinates:	LOCATION COORDINATES	Î	And photo
Pictures		Ŧ	

If we create/edit the sessions of a search, we find the properties that define a **session**. A session is defined by its name and description, a start/end date, an area that delimits the search zone and a series of participating teams. If we end the session (set the end date) then the search can no longer be activated using this session.

We can choose the search area from the list of areas managed by us or create a new one. By clicking on the area card we edit it.

The participating teams. We can add teams by clicking the '+' button or editing those that we have already included in the list.

Session	🛛 🗸	
Name Primera sesión		
El primer día de búsqueda nos cen camino donde se perdió	traremos en el	
Starting: SUNDAY, DECEM	BER 29, 2024	Seleccionar área desde el listado
Ending: FRIDAY, JANUAI	RY 31, 2025	
The global area where the search occurs		
Área de búsqueda 4	ø	
Entorno complicado		Añadir equipo participante
Participating teams The search work of each team	+	
@gmail.com	, far	
	Session Name Primera sesión Description El primer día de búsqueda nos cen camino donde se perdió Starting: SUNDAY, DECEMI Ending: FRIDAY, JANUAR Area FRIDAY, JANUAR Area de búsqueda 4 Entorno complicado Image: Entorno complicado Image: Entorno complicado Starticipating teams The search work of each team Image: Image: Image: <td>Session Name Primera sesión Description El primer día de búsqueda nos centraremos en el camino donde se perdió Starting: Starting: Sunday, DECEMBER 29, 2024 Ending: FRIDAY, JANUARY 31, 2025 Area The global area where the search occurs Área de búsqueda 4 Image: Complicado Image: Complicado Participating teams The search work of each team Image: Open al.com Image: Open al.com Image: Open al.com</td>	Session Name Primera sesión Description El primer día de búsqueda nos centraremos en el camino donde se perdió Starting: Starting: Sunday, DECEMBER 29, 2024 Ending: FRIDAY, JANUARY 31, 2025 Area The global area where the search occurs Área de búsqueda 4 Image: Complicado Image: Complicado Participating teams The search work of each team Image: Open al.com Image: Open al.com Image: Open al.com

The search area, when editing/modifying we open the painting tool:



We have several drawing modes:



- 1. draw a line by painting directly on the map with the finger. Use two fingers to pan/zoom.
- 2. draw a polygon by painting directly on the map with your finger. The polygon closes when you lift your finger. Use the fill color we selected on the previous screen. Use two fingers to pan/zoom.
- 3. it is used to create waypoints by clicking on the map. You can modify the type of waypoint that is being created on the previous screen (waypoint type).
- 4. draw lines by successive taps on the map. To end a line, double-tap quickly at the last point.
- 5. draw polygons by successive taps on the map. To close the polygon, the last tap on the starting point.
- 6. Same as the two previous ones, except that it also creates a waypoint at each vertex of the lines that are created.
- 7. Same as the two previous ones, except that it also creates a waypoint at each vertex of the polygon that is created.
- 8. Deactivates painting, allows you to click on objects (lines, polygons and waypoints) to edit their properties.

Among the properties of a polygon are those to establish for them if they are:

- 1. Perimeter alarm: implies that it is an area that we must not leave. An alarm will sound if we leave the interior of that polygon.
- 2. Exclusion zone: we must not enter that area. The alarm will sound if we enter it.

When we define a team participating in a search session we have to add the name and description data, select the team and the area (optional) that represents the area of action of that team in this search session.

We can load the route made by this device from a file (if for example you have made the route using another app, or the integration with the administrator has failed). Just send us your route in gpx/kml/kmz/... format and upload it here.

	Participating teams < 🔀 ✔	
Lord meth	Name	
Load path	Description	Select area from list
	Team path The route taken by this team	
	Team Image: Constraint of the search area The team responsible for this search area Image: Constraint of the search area Pedro Image: Constraint of the search area Image: Constraint of the search area Image: Constraint of the search area	Edit team
	Area	Select the team from the list
Edit area	The area where the team will search Área segunda búsqueda Terreno boscoso con bastantes	
	caminar fuera de los caminos	

When we create/edit a team, we set the basic data. Among them:

- 1. Team name, whatever we want to define the team.
- 2. Email, essential that it is correct!
- 3. Telephone, to send whatsapps! IMPORTANT, full telephone, + COUNTRY-CODE PHONE
- 4. Route color: the one we want this team to appear when it makes the route.
- 5. Avatar: A photo or similar, identifies the team on the map.

Team	8		
C Name			
Pedro	⊗		
Email			
@gmail.com			
C Phone			
+6969968888			
C Description			
El otro buscador			
Route color			
Avatar			
Lucas			
Sunday, December 29, 2024			
Buscando a Lucas mi hijo			

Managing a search

Once we have created the search, the targets, created sessions and assigned teams to the session, we can activate the tracking of a session from the editing screen of that search:



Once we activate it, the app shows us in the map viewer:

1. In the status bar of the app, an icon indicating that we are monitoring a search:



2. In the Android notification bar, a notification in the same sense, which allows us to stop the search:



3. On the map we will see the areas defined for the different teams.



4. The route followed by each of the search teams (updated every 2 minutes approx.)



In this way we can keep track of the teams!!!

If any team finds something of interest, it can create a waypoint and add a photo to it. From the administrator viewer you can see that waypoint, its properties, and view the photo

If we click on the icon of a team, we can open WhatsApp, to send it a message!

Collaborating in a search

From OruxMaps (or from the future simple version OruxSAR) we can participate in a search as a team, provided that the administrator has registered us in that search for a session and the session is active.

Different ways to participate:

If we are OruxMaps users and we are registered, from the side menu > Search and rescue tools > My searches as a team.



Once in the list, we can check if there are new ones from synchronization:



And once inside a search, if it is active, start participating in it:

Search		
Name Lucas		
Buscando a Lucas mi hijo		
Starting: SUNDAY, DEC	CEMBER 29, 2024	

At that moment we go to the map viewer. From there, the recording of our route starts, which is synchronized every 2 minutes with what the administrator sees on his screen.

From the OruxMaps viewer we can stop participating in the search in two ways:

- 1. Stopping the recording of the Track.
- 2. From the Android notification, stopping the search.

