

# EGNSS4CAP

Enabling the digitalisation  
of agri-government controls  
through Galileo & EGNOS



European  
Global Navigation  
Satellite Systems  
Agency



## EGNSS4CAP – Quick Start Guide

Implementing Framework Contract  
GSA/OP/09/16/Lot 2/SC 8

Coordinated by



Developed by



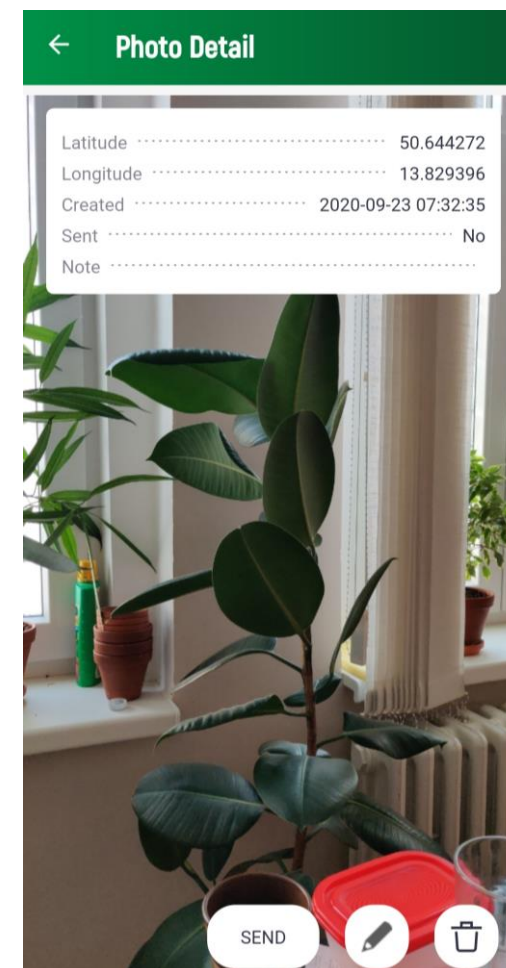
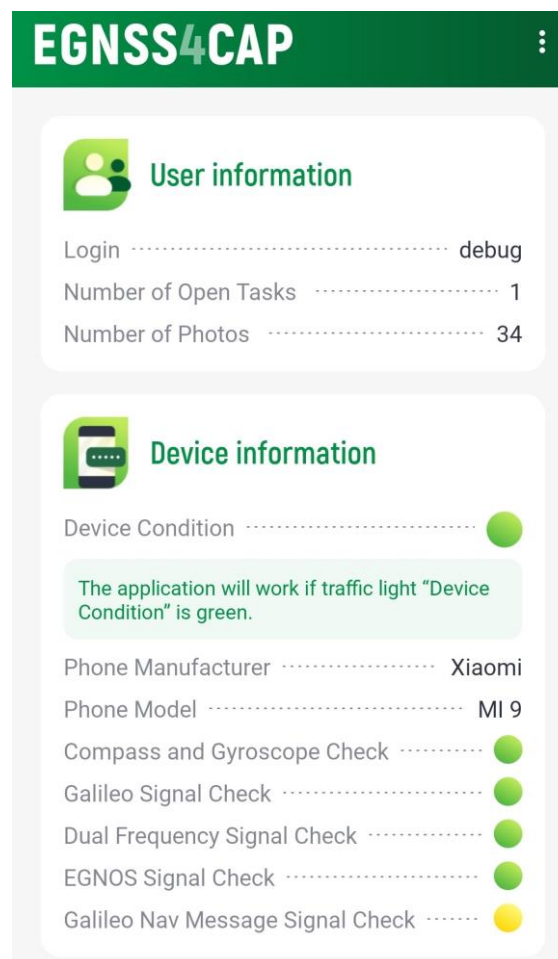
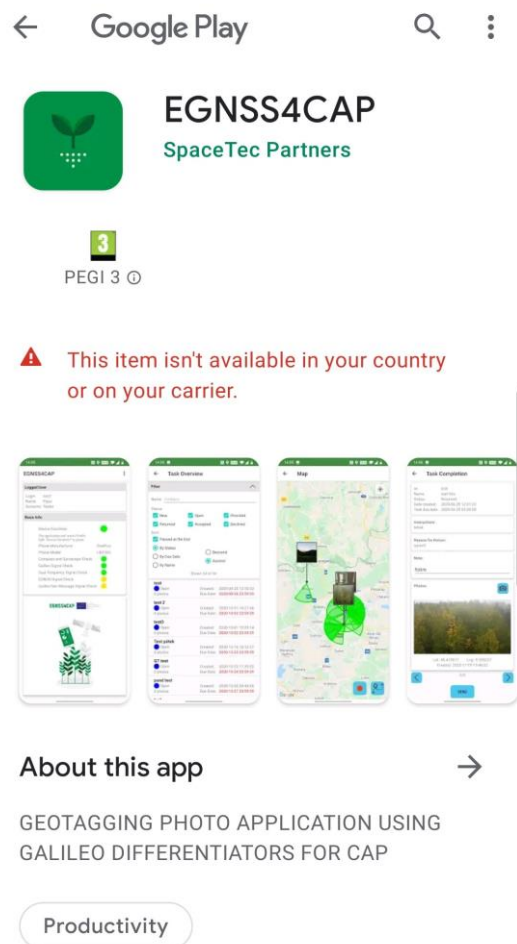
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# 1. MOBILE APPLICATION – ANDROID/IOS

This Quick Start Guide provides a brief overview of the main functionalities of the EGNSS4CAP Android application. Detailed information on the functionalities of the application can be found in the EGNSS4CAP User Manual.



- The EGNSS4CAP application is distributed by the Google Play Store or Apple App Store.
- Make sure to grant permissions to access the device's location, take pictures and record video, and make and manage phone calls.
- To log in to the application, connection to the internet is required. After the first login, the user will be remembered. A new login will only be required after explicit logout.


On the main screen, information on the user's device is shown, including the capability to receive location data and read GNSS parameters. If any of the traffic lights are red or yellow, the device does not have the indicated capability.

The application modules can be accessed through by pressing the  button which is situated in the right upper corner of the screen.


In task overview the user can see their tasks by names, statuses, number of photos, date of creation and due date. By clicking on the task row, the task completion screen is opened.

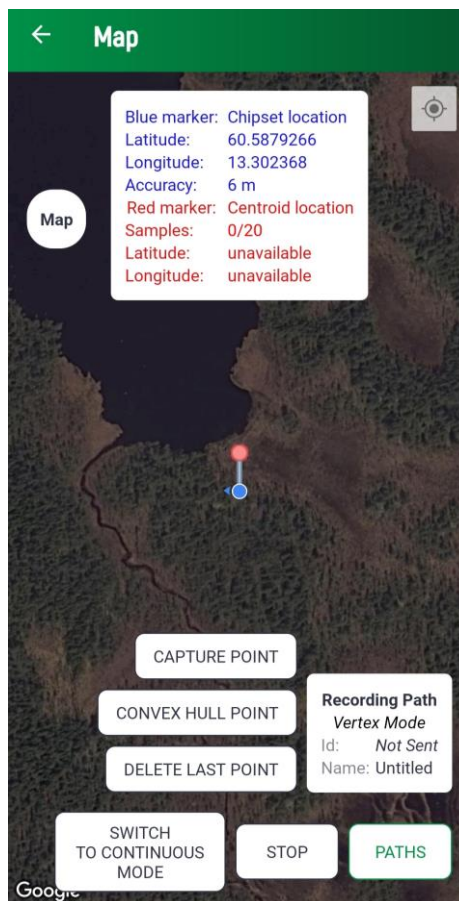
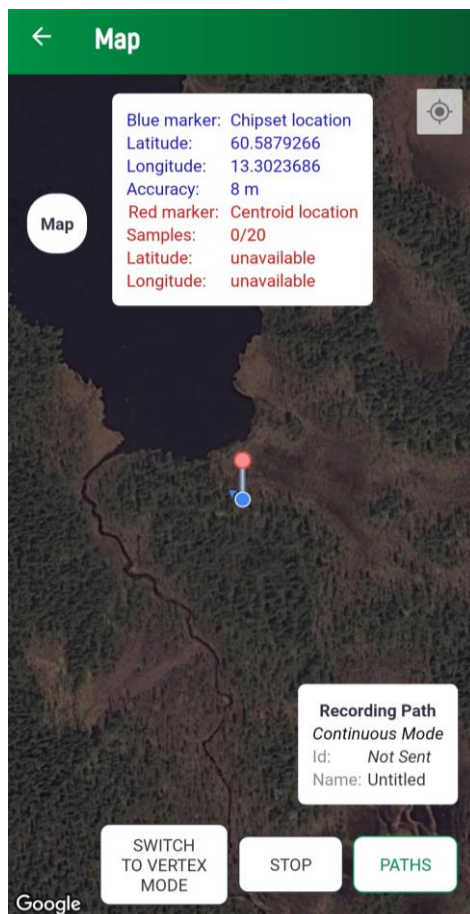
When clicking on a task, the user will be directed to the Task Completion screen. For each task, the Paying Agency administrator can give *Instructions*, indicate a *Reason for Return* if the task has been returned to the user for additional information.

The user can provide the Paying Agency with information in the *Note* section.

Users can take a geotagged photo by clicking on the camera button . While taking a photo, the user will see a countdown on the screen indicating how long they need to stay in one place to take an accurate geotagged photo.

Tasks and photos can only be edited until they are sent to the server.

To take photos that are not linked to an existing task, the *Unowned photos* screen contains a list of photos. A new photo can be taken using the  button. By pressing *Send*, all new unsent photos will be sent to the server.



The *Map* screen allows the user to track a path and calculate an area. The user's actual position will be shown in the form of a blue dot, while the current position calculated from GNSS data through the Convex Hull algorithm is marked with a red dot.

To track a path, press the *RECORD* button, insert a name for the track if desirable, and confirm. To

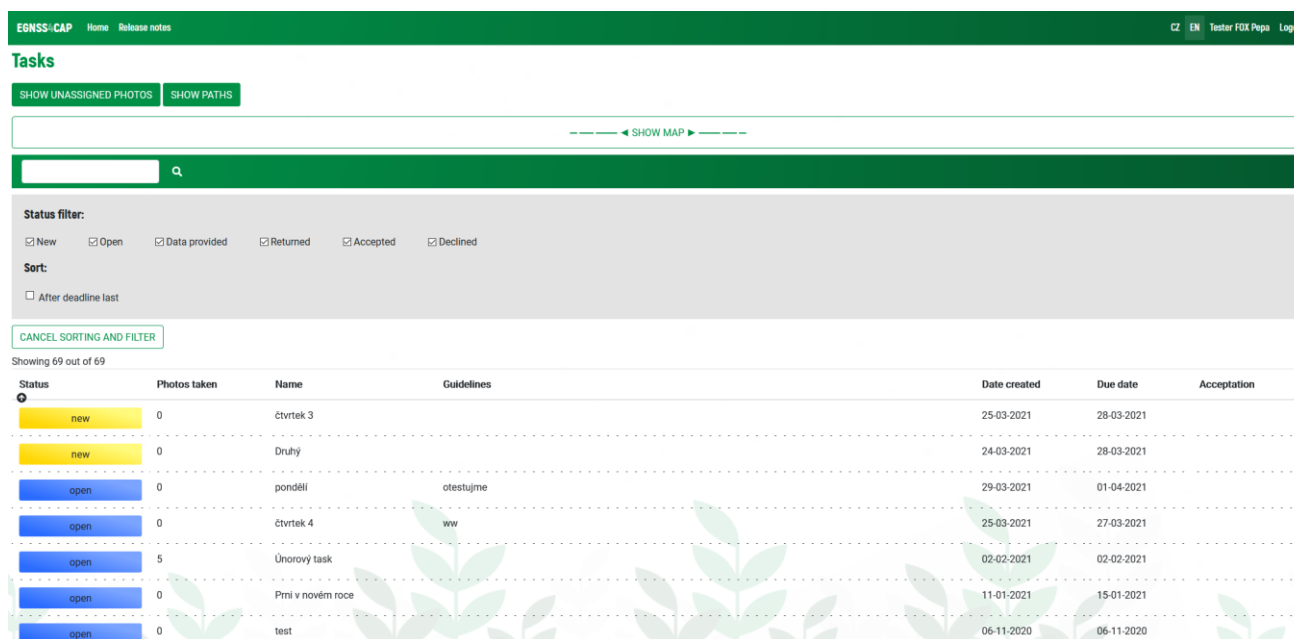
In vertex mode, the user can determine the vertices (corner points) of the polygon to be tracked. For each corner point, press "Capture point". To increase the location accuracy of the captured vertex, press "Convex hull point". This will take 20-30 seconds, but will result in a more accurate path.

end the path tracking, click the *STOP* button. A polygon will be automatically created as the first and last point of the track are connected. Information on the tracked path and polygon include the calculation of the area within the track.

By pressing PATHS button, a list of recorded paths will be shown. Here, the user can select a path to draw.

## 2. WEB INTERFACE

This Quick Start Guide provides a brief overview of the main functionalities of the EGNSS4CAP Web console. Detailed information on the functionalities of the web console can be found in the EGNSS4CAP User Manual.



The screenshot shows the EGNSS4CAP Web console interface. At the top, there is a green navigation bar with the EGNSS4CAP logo, Home, Release notes, and user information (CZ, EN, Tester FOx Pepa, Logout). Below the navigation bar, the 'Tasks' section is active, with buttons for 'SHOW UNASSIGNED PHOTOS' and 'SHOW PATHS'. A search bar and a 'SHOW MAP' button are also present. A 'Status filter' section allows filtering by New, Open, Data provided, Returned, Accepted, and Declined. A 'Sort' section includes an 'After deadline last' option. A 'CANCEL SORTING AND FILTER' button is located below the filters. The main content area displays a table of tasks with 69 items shown out of 69. The table has columns for Status, Photos taken, Name, Guidelines, Date created, Due date, and Acceptation.

Status	Photos taken	Name	Guidelines	Date created	Due date	Acceptation
new	0	čtvrtek 3		25-03-2021	28-03-2021	
new	0	Druhý		24-03-2021	28-03-2021	
open	0	pondělí	otestujme	29-03-2021	01-04-2021	
open	0	čtvrtek 4	www	25-03-2021	27-03-2021	
open	5	Únorový task		02-02-2021	02-02-2021	
open	0	První v novém roce		11-01-2021	15-01-2021	
open	0	test		06-11-2020	06-11-2020	

### User interface

On the left side, the farmer's tasks are shown. They can be sorted and filtered. On the right side, a map with tasks is shown.

This screen provides the following functionalities for the user to check the information they have provided through the application:


1. Open task detail (by pressing task row in task list)
2. Find task by text
3. Filter tasks by status (by pressing on status)
4. Sort tasks by chosen column
5. Show screen with unassigned photos – *Show unassigned photos*
6. Show screen with path – *Show paths*

## 2.1 Administrator (Paying Agency) interface





The administrator has access to two separate functionalities:

- User management
- Task management

### 2.1.1 User management

1. Search farmer by text 
2. Sort farmers in list by selected column
3. Open farmers detail
4. Add new farmer
5. Edit selected farmer
  - If the password remains empty, it will remain unchanged

### 2.1.2 Task management

1. Add a new task
2. Batch tasks accepting
  - By selecting tasks (checkbox at the end of row) and pressing *Bulk accept*
  - Tasks with status “data provided” can be only accepted.
  - By accepting a task, the status changes from “data provided” to “data checked” and acceptance will change to “Accepted”
3. Task detail: accepting , rejecting , returning the task to the farmer , or indicating that data are provided , deleting the task 