

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

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.

1.1 Getting started


- The EGNSS4CAP application is distributed by the Google Play Store:

<https://play.google.com/store/apps/details?id=eu.foxcom.gtphotos>

- Make sure to grant permissions to access the device's location, take pictures and record video, and make and manage phone calls:
 - Access device's location
 - Allow to add location data to token photos.
 - Receiving different types of location data
 - Recording paths.
 - Take pictures and record video
 - Allow to take photos by camera.
 - Make and manage phone calls
 - Allow to assign data about mobile or Wi-Fi network with token photos
- 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.

1.2 Main menu

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 this menu the following options are available:

- Sync Tasks
 - Start synchronization process with server. During synchronization the application is not available to use and connection to internet is necessary.
- Task Overview
 - Open screen with task list.
- Unowned Photos
 - Open screen with list of unowned photos.
- Map
 - Open screen with map.
- Settings
 - Open screen with settings.
- GNSS Raw Data
 - Open screen with overview of currently receiving GNSS data.

- About
 - Open screen with basic information about application
- Logout
 - Logout user and show *Login screen*.

1.3 Taking a photo

In task overview (Image 1 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.

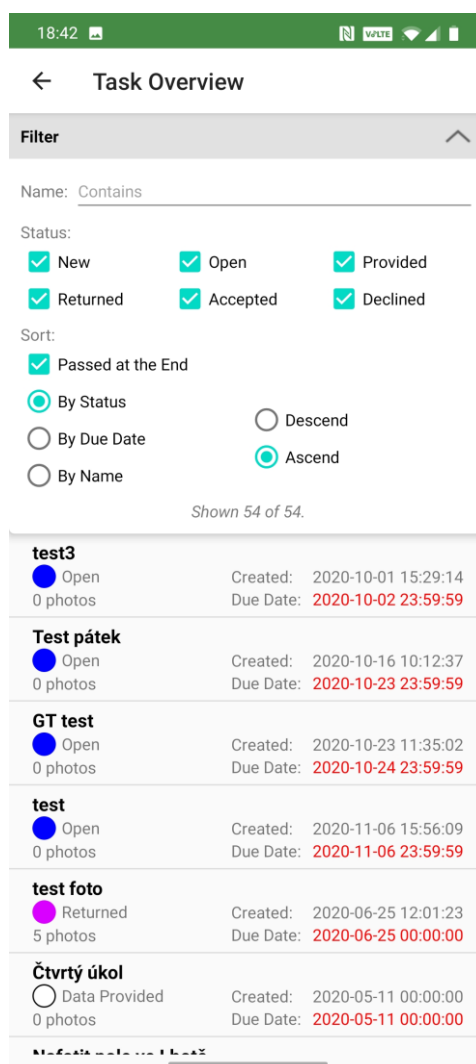




Image 1 Task Overview

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.

1.4 Tracking a path

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  button, insert a name for the track if desirable, and confirm. To end the path tracking, click the  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 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.

2.1 Getting started

The web console is available at <https://egnss4cap-uat.foxcom.eu/login.php>.

The user will be asked to provide a valid login.

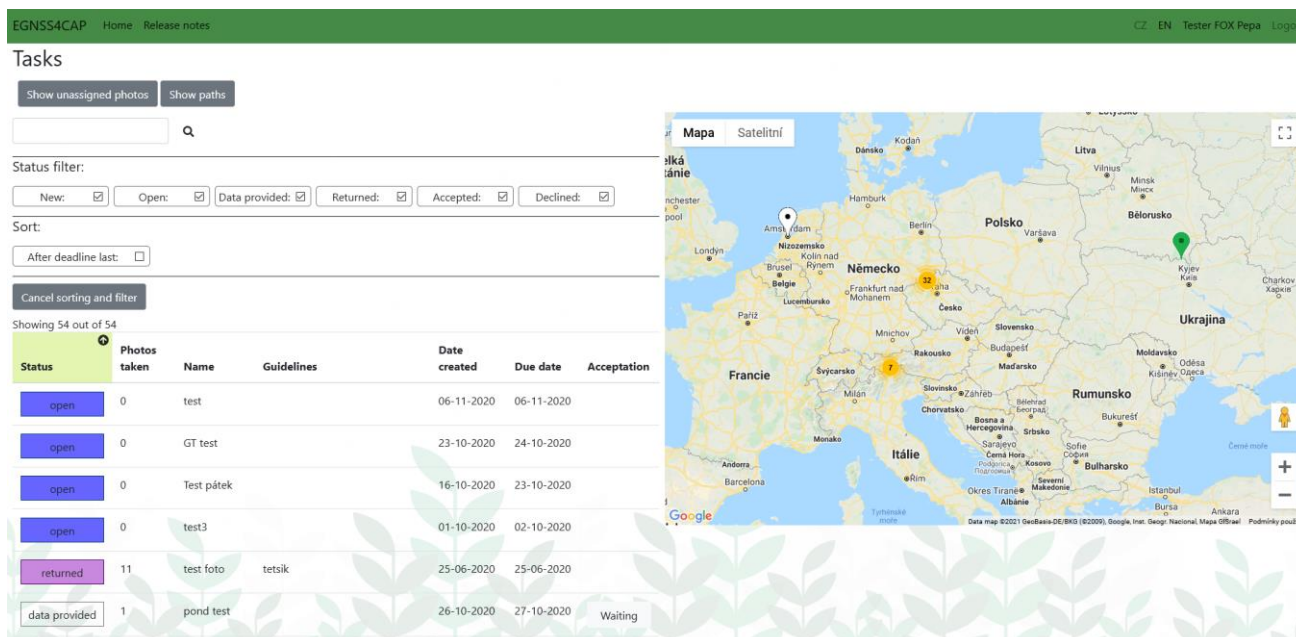
2.2 User (farmer) interface

After login the *Tasks* screen will be shown at first (Image 2 Tasks).

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 unowned photos – *Show unassigned photos*



EGNSS4CAP Home Release notes CZ EN Tester FOX Pepa Logout

Tasks

Show unassigned photos Show paths

Search:

Status filter:

New: ☒ Open: ☒ Data provided: ☒ Returned: ☒ Accepted: ☒ Declined: ☒

Sort:

After deadline last: ☐

Cancel sorting and filter

Showing 54 out of 54

Status	Photos taken	Name	Guidelines	Date created	Due date	Acceptation
open	0	test		06-11-2020	06-11-2020	
open	0	GT test		23-10-2020	24-10-2020	
open	0	Test pátek		16-10-2020	23-10-2020	
open	0	test3		01-10-2020	02-10-2020	
returned	11	test foto	tetsik	25-06-2020	25-06-2020	
data provided	1	pond test		26-10-2020	27-10-2020	Waiting

Mapa Satelitní

Google

Image 2 Tasks


Unowned photos can be further edited by rotating, deleting or selecting for task assignment. To facilitate the work of the user, these actions can be performed in bulk as well.

2.3 Administrator (Paying Agency) interface





The administrator has access to two separate functionalities:

- User management
- Task management

2.3.1 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 password remains empty, password will not be changed

2.3.2 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” only be accepted.
 - By accepting task, status change 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 