OnPOZ®
Precision Positioning

Getting Started with EZTag CE™

Version 2.104

Summary

Actions TO DO ONCE

- Get ready with your unit
- Install and license
- Create a data dictionary
- Configure Preferences

Actions TO DO AT EVERY JOB

- Display background maps and images
- Use the Plan View
- Collect GNSS features
- Export GIS features

For detailed information, refer to the User Guide under **Start > All Programs > OnPOZ > OnPOZ Documentation.**

Get ready with your unit

To avoid a disconnection of the GNSS receiver while doing a GNSS survey job, you must configure the power saving modes:

- Windows Mobile : with the **Start** menu go to **Settings > Power** using the **Advanced** tab uncheck the **Turn off device** options and click **OK**.
- Windows OS: go to **Settings > System > Power & sleep** and set all modes to **Never** (that includes Screen, Sleep and Network connection).

In order to use a SiRF GPS receiver with **EZTag CE™** you must set the SiRF GPS receiver mode to **binary** (an application on your Device is available for this purpose, refer to your vendor for details). Typically, with GNSS receiver other than SiRF, users do not have to do this step.

After a battery replacement, make sure these options were not reset to the original values.

Install and license

To uninstall on *Windows Mobile* use **OnPOZ Uninstaller** programs and remove all programs.

- Download **OnPOZSetup-en.msi** installation package on your PC and execute it for the products you want to install.
- To run **EZTag CE™** on *Windows Mobile*, synchronize your device with your PC then, from the PC **Start > All Programs** menu, select **OnPOZ > Install EZTag CE** and follow the instructions.
- On your PC, from the **Start > All Programs** menu, select **OnPOZ > OnPOZ Tools** then select **Mobile Licensing** follow the instruction and click on **Install License** and wait until it is installed. If the license does not install, click on **New License** and follow the instructions.

Download Center

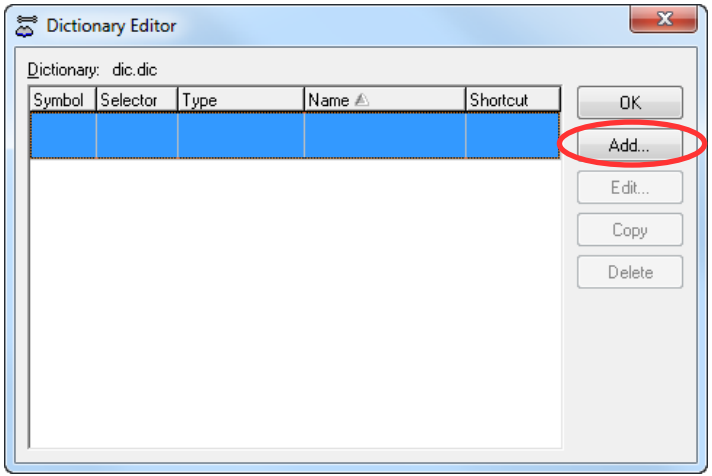
Install EZTag CE

Mobile Licensing

Create a data dictionary

A default dictionary is available, it allows to capture points, lines and polygons features. For more flexibility in regards to features and attributes, create your own dictionary.

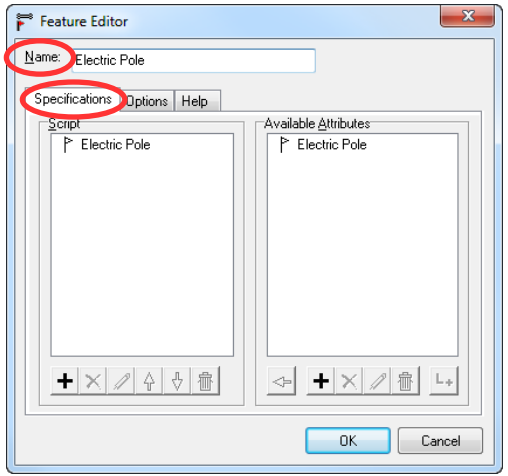
On your PC, open the Dictionary Editor with **Start > All Programs > OnPOZ > OnPOZ Tools > Dictionary > New Dictionary**



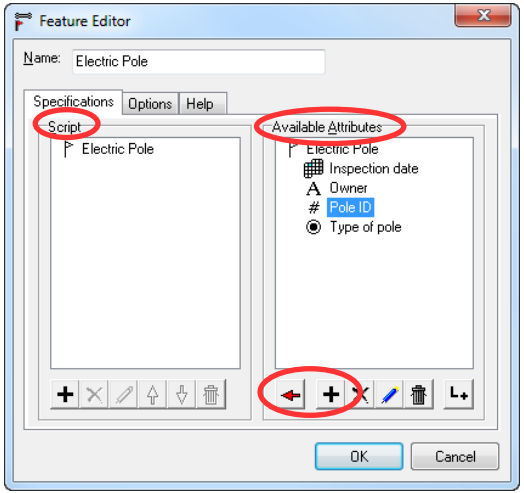
Click **Add…** to add a new feature into your data dictionary.

Type a **Name** for the feature.

Using the **Specifications** tab, define some attributes for your feature.

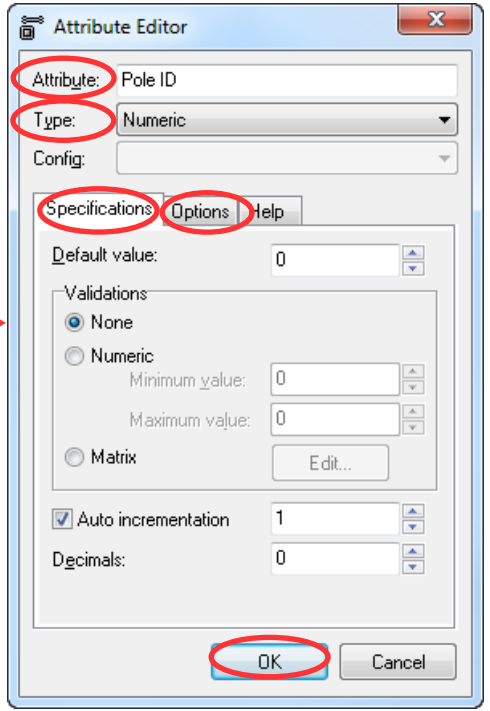


Create a data dictionary



In the **Available Attributes** section click ➕ to add attributes.

Enter an **Attribute** name and select a **Type** for it. Use the **Specifications** tab to enter your specifications and the **Option** tab to set additional validations. Click **OK** to save the attribute.



Once all attributes are added for a specific feature, click ⬅ to send the attributes (one at a time) to the **Script** section. The **Script** section defines the order in which the attributes will appear in the field. Once the **Script** is completed click on the **Options** tab (from Feature Editor Window).

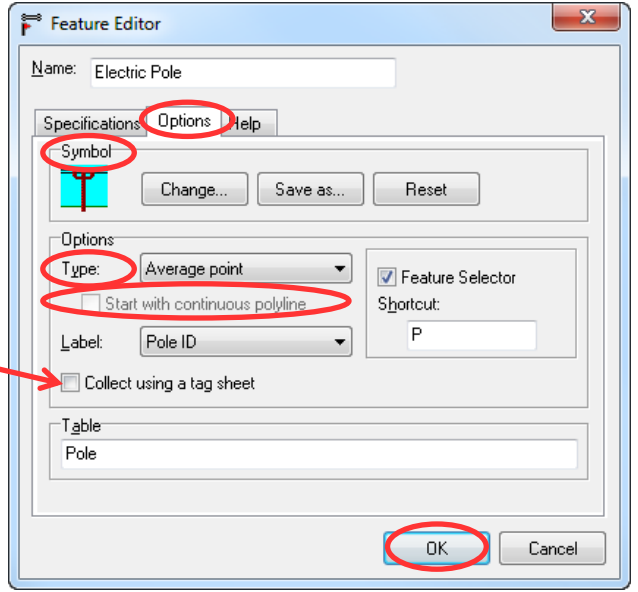
Create a data dictionary

In the **Options** tab you can define the feature **Type** and select a **Symbol** for the feature.

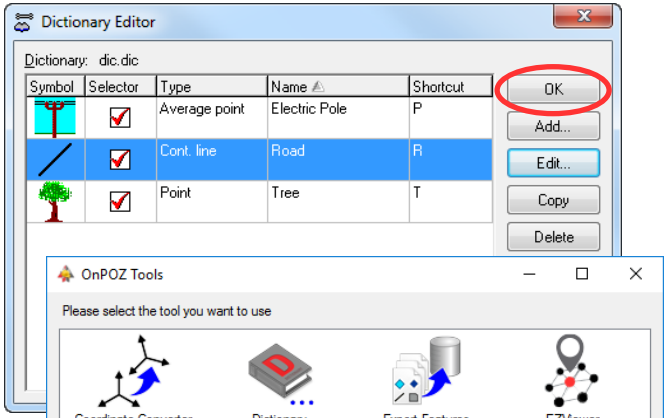
For **Line** or **Polygon** feature types, **Start with continuous polyline** check box is available. Check the box for a continuous polyline (records vertices into the line according to your data rate) or leave it unchecked for a discrete polyline (vertices are added manually).

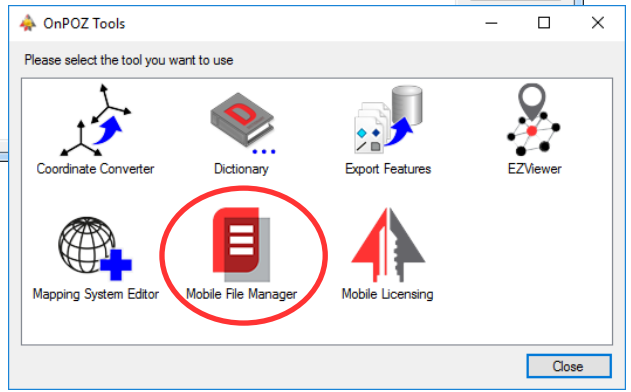
If you would like to view your feature and its attributes in a table form (on the field), check the box **Collect using a tag sheet**. Otherwise the attributes will be displayed one at a time (as shown in this document).

Once the **Option** tab is completed click on the **OK** to save the feature.



Create a data dictionary





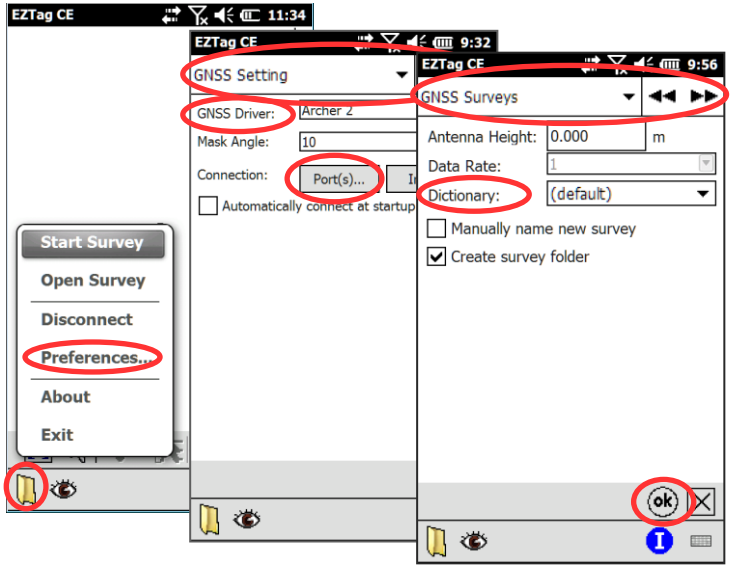
Once all your features are added into your data dictionary, click **OK** to save the data dictionary.

To use a data dictionary on a field unit, use **OnPOZ Tools > Mobile File Manager** found under **Start > All Programs > OnPOZ**. Select **Upload Auxiliary Data** ( ) and drag & drop your **Data Dictionary** file into **Selected Data** and :

- upload it ( ) to the connected *Windows Mobile* unit or to the your *Windows* working folder
- You may also package it ( ) to further deploy it on other *Windows* units (once it is copied on a *Windows* unit, simply double click on the file to deploy it into the working folder).

Configure preferences

You can define specific settings (alarms, mask angle, etc.). Start **EZTag CE™** on your field unit and select **Preferences…** from the **File** menu. Using the drop down list or the arrows, you can navigate to different settings pages.



According to the GNSS receiver used with the application, select the **GNSS Setting** page to specify the COM **Port(s)…** used by the receiver and the type of receiver used (**GNSS Driver**).

If you created your own data dictionary, select it in the page **GNSS Surveys**.

The **Tagging** page allows you to define the duration of average points.

Once all your preferences are set, click **ok** to accept the changes.

Display background User Map (*.shp, *.tif, *.jp2, *.pdf and *.ecw)

- On the PC, prepare your maps using a single projection
- Upload your **User Map** files on the field device working folder with **Mobile File Manager > Upload Auxiliary Data** ( ). Drag & drop your files into **Selected Data** and upload it on the field device working folder with (or package it for other *Windows* devices, then run the packaged file to deploy it to the working folder)
- On the field device, using the **Mapping System** page from **File > Preferences…**, select the Mapping System used to prepare your maps and click **ok**.

If the mapping system used for your maps is not listed, create a custom one.

On the PC, **Start > All Programs > OnPOZ > OnPOZ Tools > Mapping System Editor**, select a **Datum** and **Add…** your projection. Then, close **Mapping System Editor** and click on **Mobile File Manager**, select **Upload Auxiliary Data** and drag & drop the **Mapping Systems** Auxiliary Data into **Selected Data** to upload it in the device working folder.

- On the field device, select **Layer Manager** from the **View** menu.
- Select your files with the icons + −.
- Check the files to display (it is possible to edit some file properties with).
- Once your background maps are selected, click **ok**.

Display background Web Map

- On the PC, prepare your Web Map with **Start > All Programs > OnPOZ > OnPOZ Tools > Mobile File Manager**.

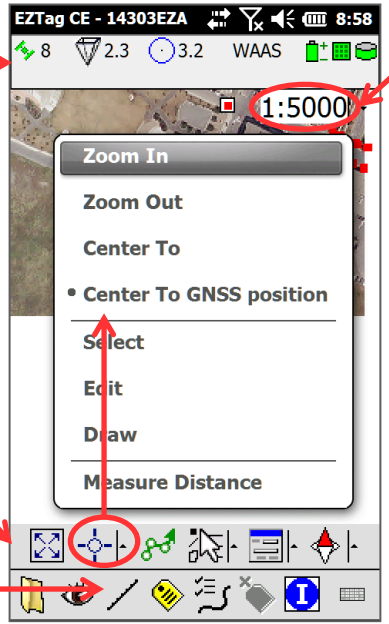
  1. Select **Create Web Map** ( )
  2. Zoom to your area and display the layer of your choice
  3. Then select a specific area with
  4. And save your Web Map
  5. Use **Upload Auxiliary Data** ( ) to drag & drop your **Web Map** into **Selected Data** and upload your Web Maps on the field device working folder with (or package it for other *Windows* devices, then run the packaged file to deploy it to the working folder)

- On the device, select the **Mapping System** page from **File** **> Preferences…** menu and select **World > Global > Web Mercator > Web Mercator** and click **ok**.
- On the device, select **Layer Manager** from the **View** menu.
- Select your files with the icons + — .
- Check the files to display .
- Once your background maps are selected, click **ok**.

Use the Plan View

EZTag CE™ has two toolbars, one for the Plan View and another one for collecting GNSS features. The GNSS feature toolbar is available once a project is started or opened.

Status bar shows the number of satellites and the DOP :



Plan View toolbar

GNSS feature toolbar

Current scale can be adjusted with the drop down.

Fit All

Center To GNSS position centers the Plan View on the current GNSS position.

With **Select** ( ), an item can be selected with a click on the map.

To Navigate to a selected item.

To Expand the *.SHP and GNSS files to select an item from it

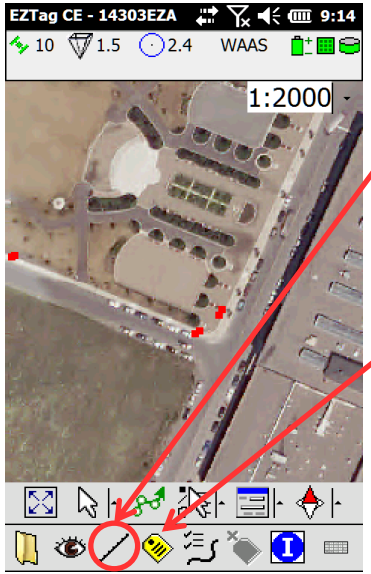
To View/Edit/Delete a selected feature

To orient the Plan View **North** (or according to the user direction – **Dynamic**).

To display/hide the **Status bar**

Collect GNSS Features

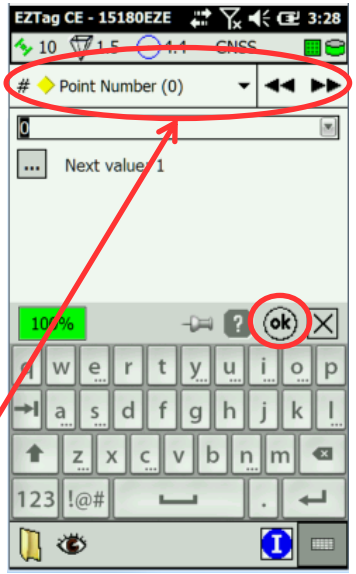
For this step, you must go outside for the GNSS receiver to pick up the GNSS signal. Once outside, start **EZTag CE™**, connect to the receiver and start a (**File > Connect** and **File > Start Survey**). Once a file is started or opened, the GNSS data toolbar is displayed.



The first button gives access to the list of features available in the data dictionary. Select the feature you want to collect, the button will then represent the selected feature.

Click when you are ready to start the data capture of the selected feature (represented by the first button).

Enter all attributes and click **ok** when the data capture is completed.



Collect GNSS Features

When the feature being captured is a polyline (line or polygon), the opened polyline is displayed in red in the Plan View. The **Open Polyline** button allows to control the polyline (**Pause/Resume**, **Close**, **Switch to Discrete/Continuous** and add **Vertex** into the polyline). When the polyline is completed (closed), it is displayed in black.

Open Polyline allows to **Switch to Continuous**/ **Switch to Discrete**. Continuous means the polyline vertices are recorded according to a pre-defined interval (set with **File > Preferences… > Tagging > Auto-vertex…**). Discrete means vertices are added manually with **Add Vertex** .

NESTED FEATURE: a feature from the data dictionary used as a polyline vertex

Using **Open Polyline** , select a feature listed under the Vertex section. Once the feature (vertex) is selected, click **Add Vertex** to start the data capture of the nested feature (and enter the nested feature attributes). During the data capture of the nested feature, the polyline is automatically paused and it resumes once the nested feature data capture is completed.

When the data collection is completed for the day, select **Stop Survey** from the **File** menu.

Export GIS Features

To post-process your data, refer to **EZSurv®** Getting Started.

Use either **OnPOZ Tools > Mobile File Manager** to **Download Field Data** ( ) to your PC or use Windows Explorer (transfer the folder My Documents\Effigis\EZTag CE\Surveys).

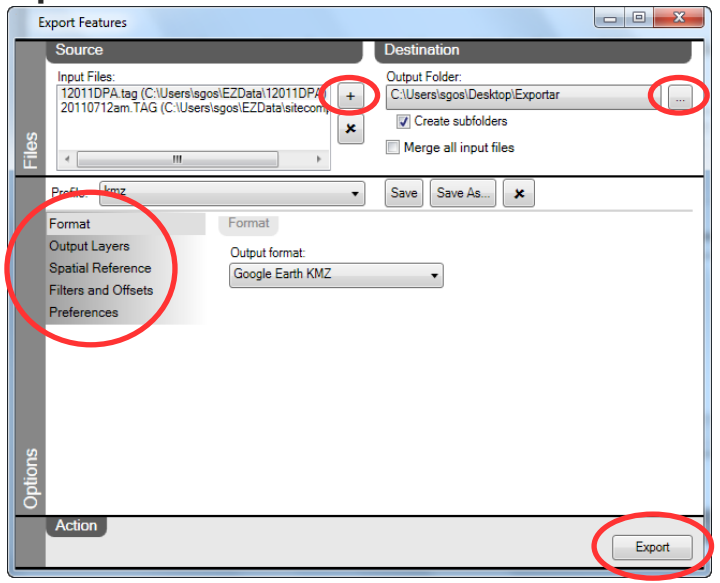
On the PC, **Start > All Programs > Effigis > OnPOZ Tools > Export Features**.

Select the files to export (**Source**) and the output folder (**Destination**).

Configure the export (**Format**, **Spatial Reference**, apply **Filters and Offsets** to the output, set some output metadata according to your **Preferences**). Your export configurations can be saved as a **Profile** for future exports.

If your **Spatial Reference** is not in the **Predefined** tab, select it in the **Custom** tab (create it first with **Tools > Mapping Systems > Editor**, **Add**…).

Click **Export** to export your files.



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