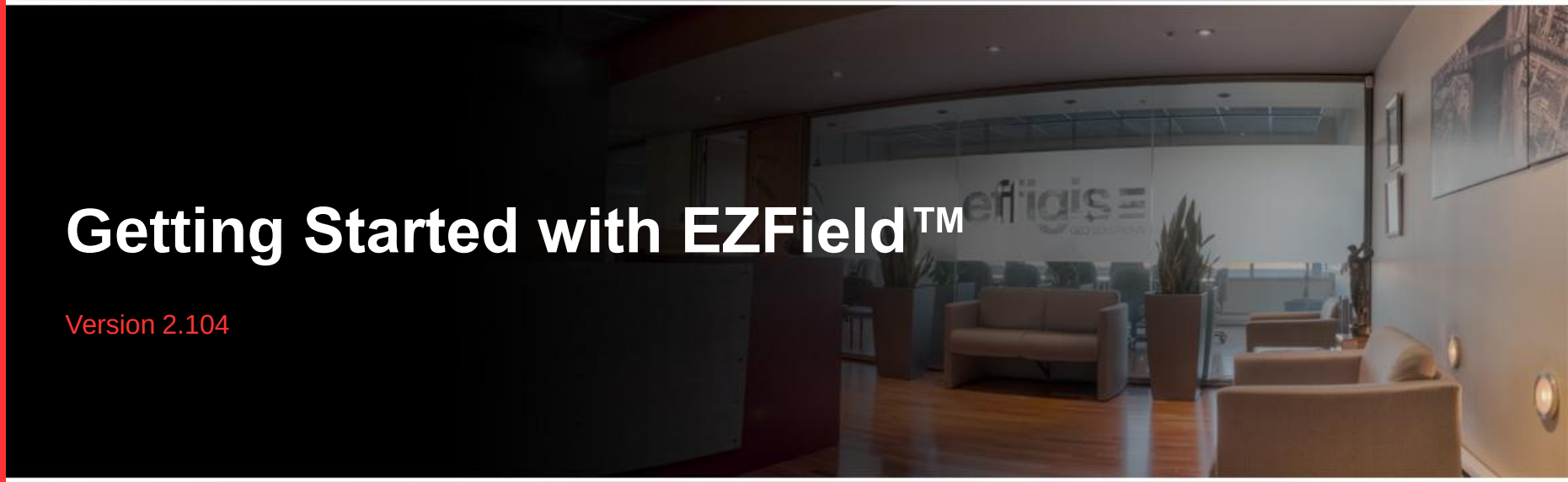
OnPOZ®
Precision Positioning

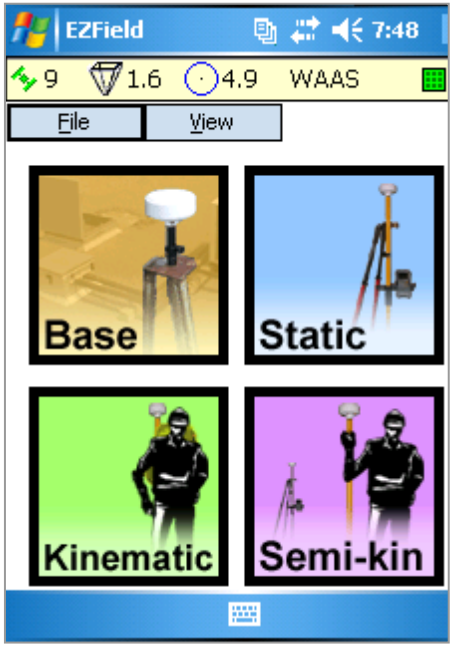


# Getting Started with EZField™

Version 2.104


# Summary

- Get ready with the field device
- Install and license
- Configure Preferences
- Base and Static modes of operation
- Kinematic mode of operation
- Semi-kinematic mode of operation
- Export data




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


# Get ready with the field device

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).

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


# Install and license

To uninstall on Windows Mobile use all the programs found in the folder **OnPOZ Uninstaller**.

- On your PC download **OnPOZSetup-en.msi** and install the products you want to use.
- Synchronize your mobile device with your PC then, from the PC **Start > All Programs** menu, select **OnPOZ > Install EZField** and follow the instructions to install **EZField™** on the mobile device.
- 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.

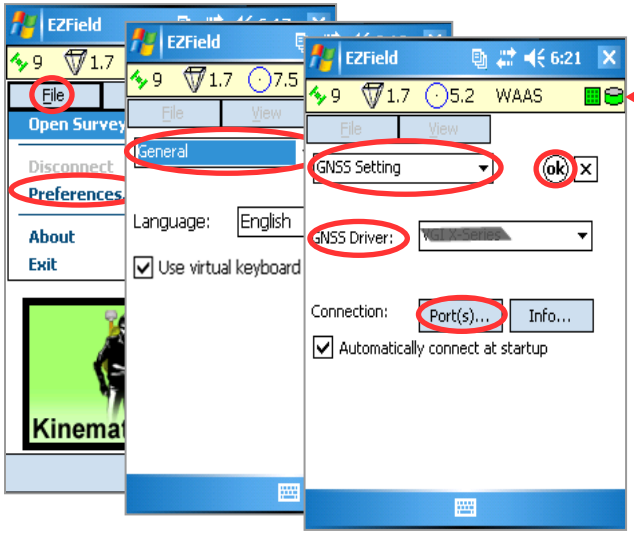
Download Center

Install EZField

Mobile Licensing


# Configure Preferences

You can define settings for the application. Each mode of operation (Base, Static, Semi-kin and Kinematic) has some specific settings. To configure the settings, **Start > EZField** on your mobile device and select **Preferences…** from the **File** menu. Using the drop down list, you can navigate to different settings pages.



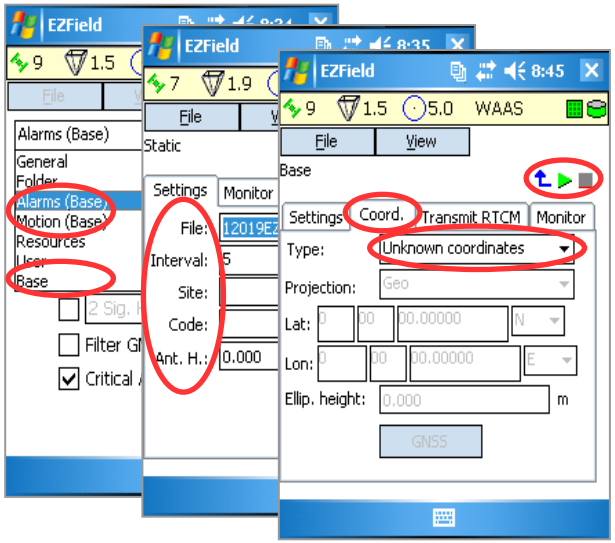

The Status Bar indicates the number of satellites and the DOP value.

Select **GNSS Setting** from the **Preferences** drop down list to specify the COM **Port(s)…** used by the receiver and the type of receiver used (**GNSS Driver**).

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


# Base and Static modes of operation

The Base and Static modes have a lot of similarities. A file recorded in Base mode will be recognized by the post-processing software as the reference station for surrounding rover and static files.

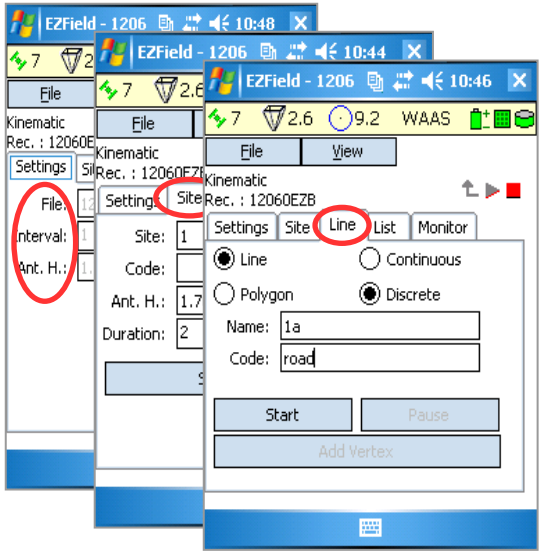



- Click  or  to select the mode of operation.
- For each mode, select **Preferences…** from the **File** menu, using the drop down, you can set some preferences specific to the mode (**Alarms**, **Motion**, **Base** and **Static**).
- Enter the **File** name, the recording **Interval**, the **Site** name, the **Code** and the antenna height.
- If using the **Base** mode, select the **Coord.** tab to enter the base coordinates or select unknown to enter the coordinates later, in the post-processing software.

Click ▶ to start recording. Click ■ to stop recording.
Click ⮤ to go to the mode of operation.


# Kinematic mode of operation

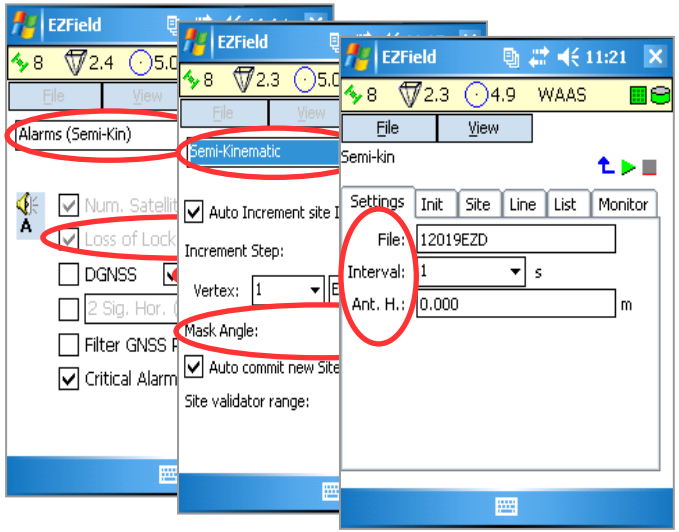
The kinematic mode allows to collect points and polylines (line/polygon). The accuracy of the survey will vary according to the type of receiver used and the environment.




- Click  to select the mode of operation.
- Select **Preferences…** from the **File** menu, using the drop down, you can set some preferences specific to the mode (**Alarms**, **Motion** and **Kinematic**).
- Enter the **File** name and antenna height.
- Click ▶ to start recording.
- To record a site (point): select the **Site** tab, enter the site specifications and click **Start recording**.
- To record a polyline: select the **Line** tab, select **Line** or **Polygon** and choose **Continuous** (vertices added every 2 seconds) or **Discrete** (**Add Vertex** manually). Enter the polyline **Name** and **Code** and click **Start** to record it. Click **Stop** when it is completed.
- Click ■ to stop recording and ↑ to go to the mode of operation.


# Semi-kinematic mode of operation

The semi-kinematic mode allows to perform productive, reliable and accurate centimeter surveys. Semi-kin insures 3D post-processed centimeter accuracy with roving L1 receivers. In semi-kin, **EZField™** monitors the signal quality and manages the required initialization procedures (initialization is required to secure post-processed centimeter accuracy with L1 receivers).



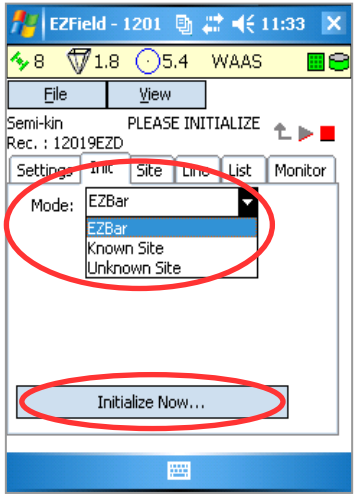

- Click  to select the mode of operation.
- Select **Preferences…** from the **File** menu, using the drop down, you can set some preferences specific to the mode of operation (**Alarms**, **Motion**, and **Semi-kinematic**).
- Enter the **File** name and antenna height.
- Click ▶ to start recording.

To secure centimeter accuracy in post-processing, it is highly recommended to set the **Loss of Lock** Alarm at 5, the **PDOP** alarm at 6 and the **Mask Angle** at 15.


# Semi-kinematic mode of operation

The first step in semi-kinematic mode is to initialize the survey. **EZField™** gives you a choice between 3 modes of initialization:

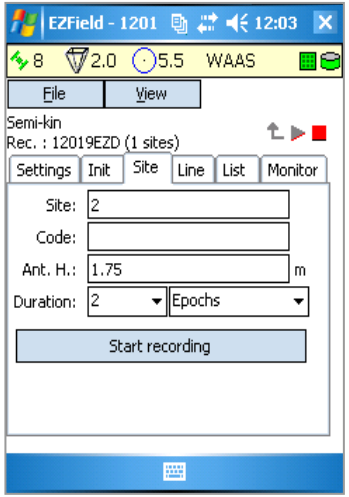
1. Set your rover antenna on a **Known Site** (pt.) for 20 seconds
2. Set your rover antenna on the **EZBar** for 2 minutes
3. Set your rover antenna on an **Unknown Site** for 15 minutes (the required time to establish its precise coordinates)

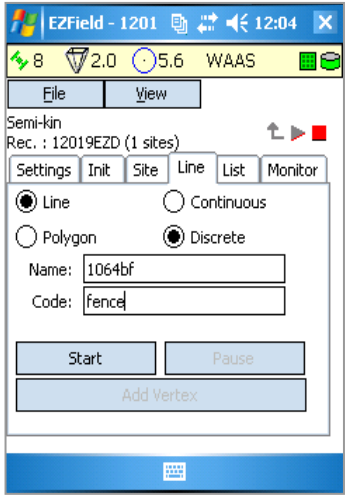



**EZBar**, mounted at the base site, separates the two antenna centers of **exactly 20 cm**.

- Using the drop down menu, select the initialization **Mode** of your choice.
- Place the antenna over the site or on the **EZBar**.
- According to the mode selected, some information will need to be entered (site name, height...). Click on **Initialize Now…** to start the initialization.
- Once initialized, you can record sites and polylines. The post-processed accuracy will be centimeter (X, Y, H).


# Semi-kinematic mode of operation



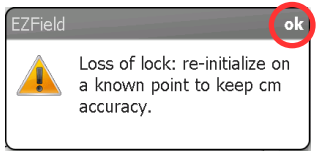




- To record a site (point), select the **Site** tab, enter the site specifications and click **Start recording**.
- To record a polyline, select the **Line** tab, select **Line** or **Polygon** and choose **Continuous** (vertices added every 2 seconds) or **Discrete** (**Add Vertex** manually). Enter the polyline **Name** and **Code** and click **Start** to record it. Click **Stop** when the polyline is completed.

The **List** tab lists the recorded features.

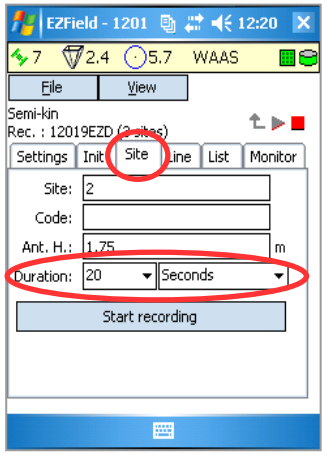

# Semi-kinematic mode of operation

**EZField™** monitors the signal quality and manages the required initialization. Therefore, you may be asked to reinitialize if ever the carrier phase signal is lost (Loss-of-lock alarm).

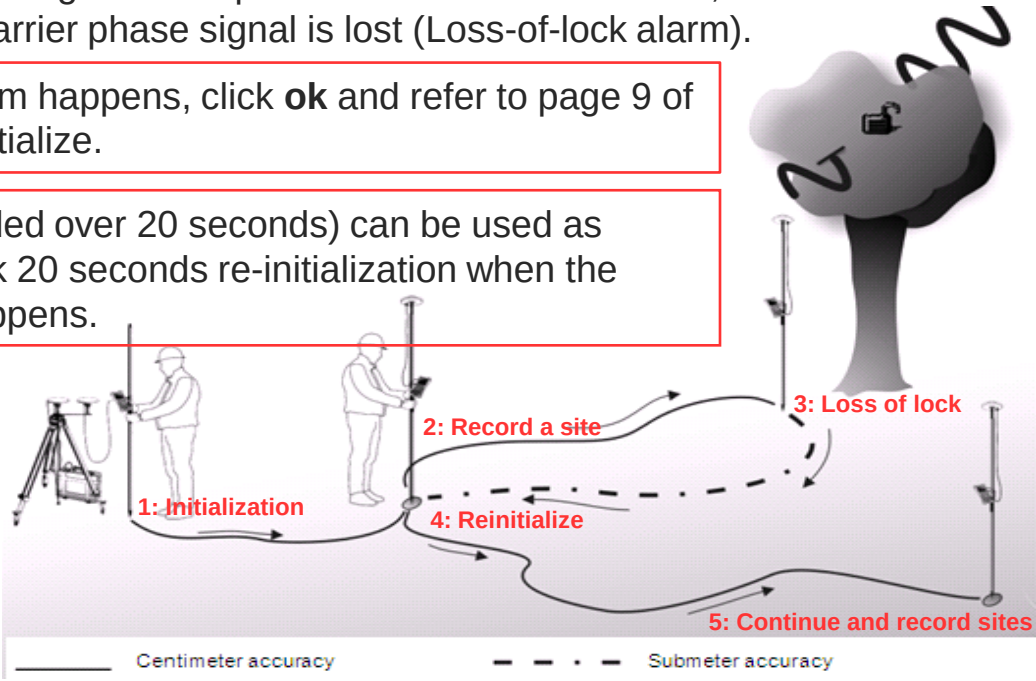



If the Loss-of-lock alarm happens, click **ok** and refer to page 9 of this document to re-initialize.

Surveyed sites (recorded over 20 seconds) can be used as known sites for a quick 20 seconds re-initialization when the Loss-of-lock alarm happens.




- Click ■ to stop the survey.
- Click ⮤ to go to the mode of operation.




# **Export data** to post-process data, refer to **EZSurv®** Getting Started

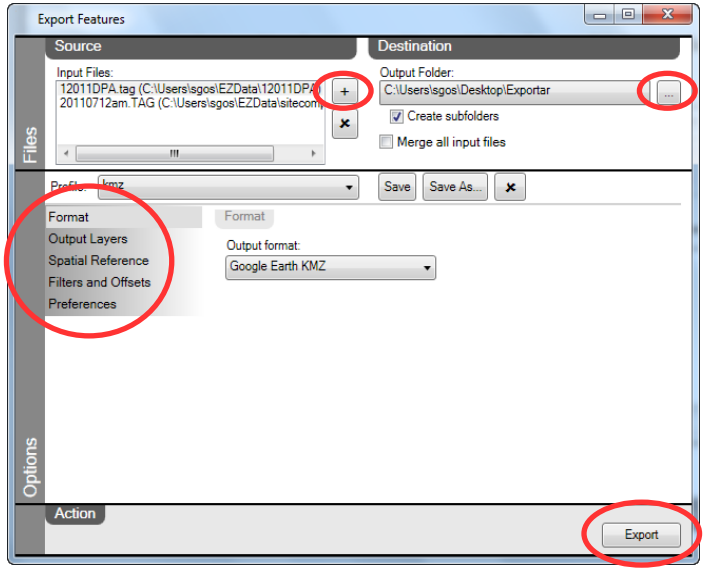
Use either **OnPOZ Tools > Mobile File Manager** to **Download Field Data** to your PC or use Windows Explorer (transfer the folder My Documents\Effigis\EZTag CE\Surveys).
On the PC, **Start > All Programs > OnPOZ > OnPOZ Tools > Export Features**.

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 in 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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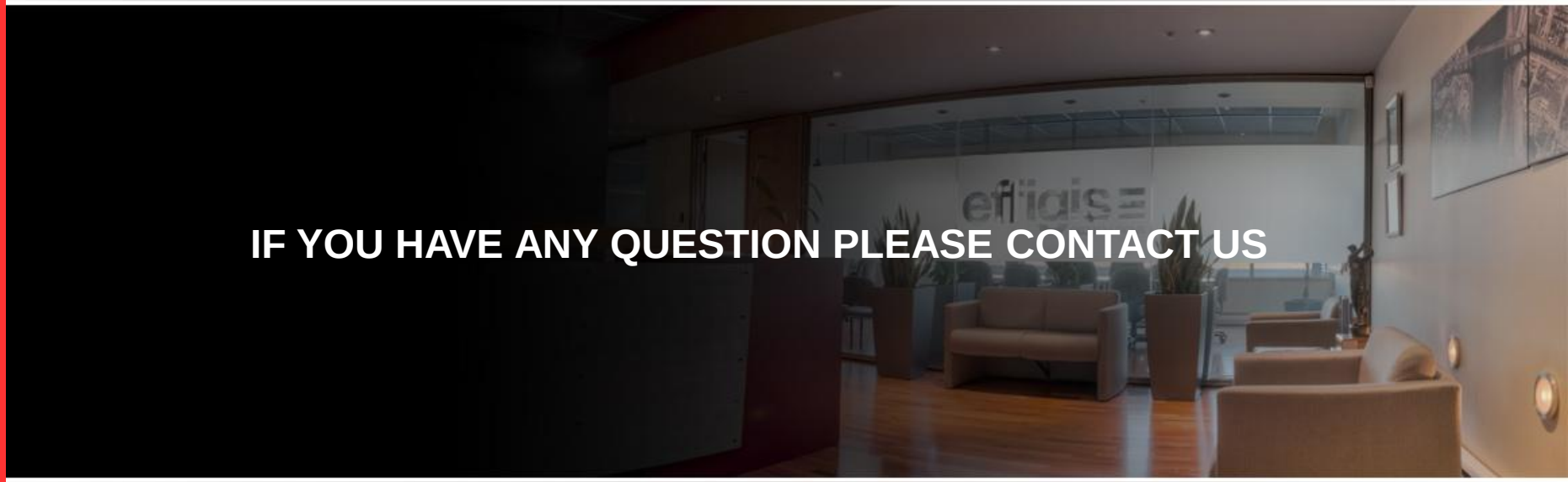

## IF YOU HAVE ANY QUESTION PLEASE CONTACT US