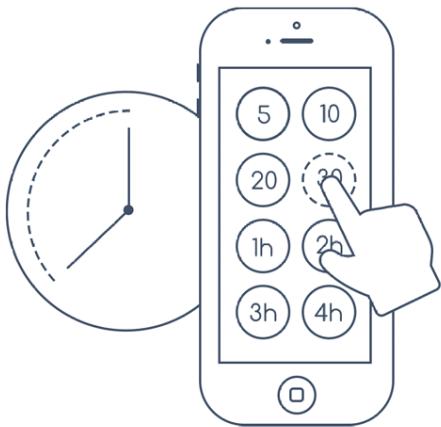


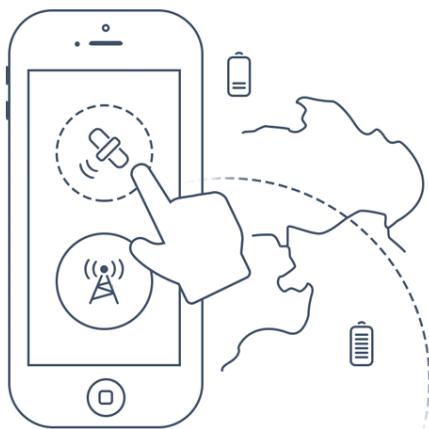
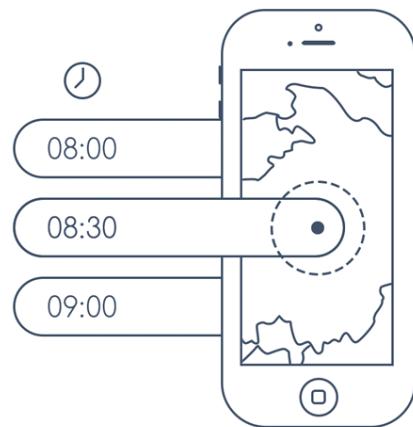
# LoRa/3G Tracker Manual



# How it works

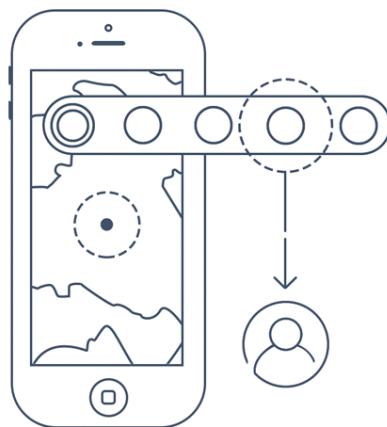


- Lora/3G tracker operations are driven by the customer defined schedule. Using free iTraq mobile application (iOS or Android), customer can define the frequency of the location reports. These reports can range from every 5 minutes to once a day. The battery life depends on the frequency of the reports. More reports per day - shorter the battery life.



- In the mobile application you can choose which location technology will be used by the tracker: GPS (accurate, outdoors, shorter battery life) or Cell-ID (not accurate, indoors, longer battery life).

- Customer can track as many LoRa/3G tracker devices in one mobile application.
- Customer can share LoRa/3G tracker device registered in the application with other people. They will be able to see the location of the shared iTraq, but will not be able to change its schedule.

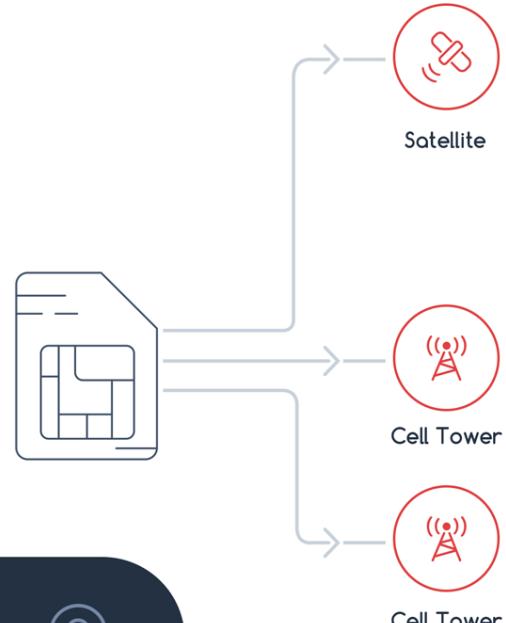




# Connectivity

LoRa/3G tracker comes with global SIM card pre-installed. This SIM card works in most countries. Tracker is using 2G/3G cellular technology to communicate.

This means that if there is no 2G/3G cell coverage, the device may know its location through GPS, but will not be able to communicate it to the platform. Please note that since your phone can use many other technologies to connect (4G, CDMA, LTE) it is possible that your phone will connect from the area, while tracker device will not.

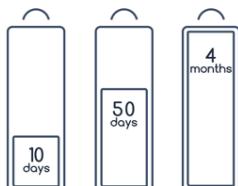


## LoRa/3G tracker battery



## Charging a tracker

Connect Micro USB cable to the socket located on the bottom side of the device. Once the LED on LoRa/3G tracker turns ON, it's charging. It takes 2-3 hours to fully charge the tracker.

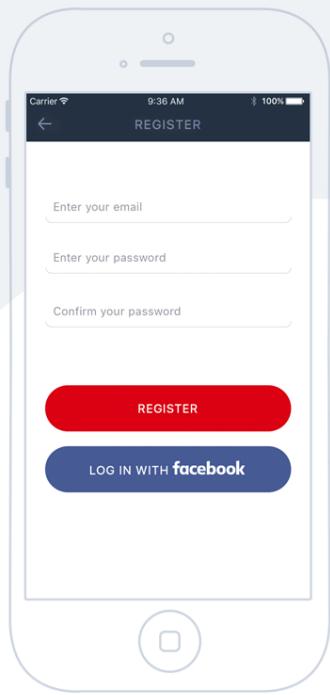


## Longest Battery Life

Over 4 month of battery life for daily reports. Over 50 days for once an hour reports 7-10 days reporting every 10 minute.

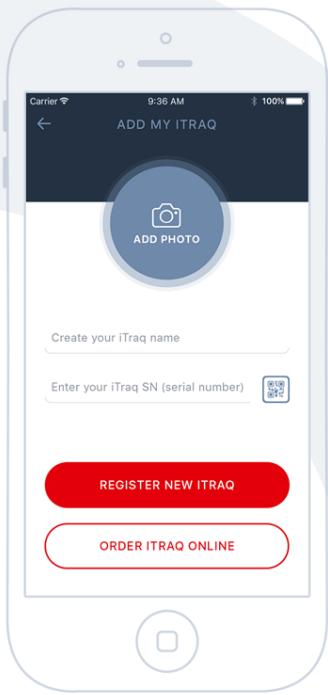
# Using a mobile application

## Registering for the first time



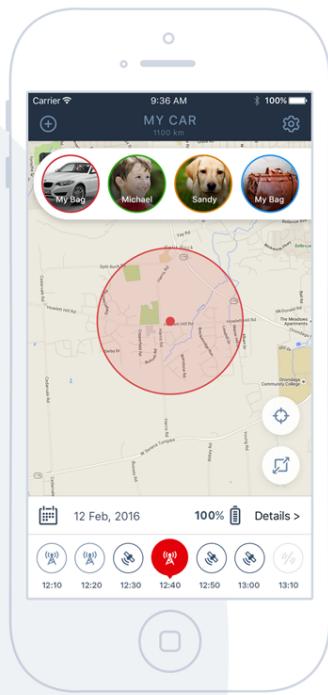
When registering for the first time, enter your Email and password. For simplicity, you can Login with your Facebook account.

## Adding another device



Click "+" on the top left of the main screen to register the new iTraq device. Give it a name, add photo and enter the serial number or click QR code button to read it off the device sticker with your phone camera.

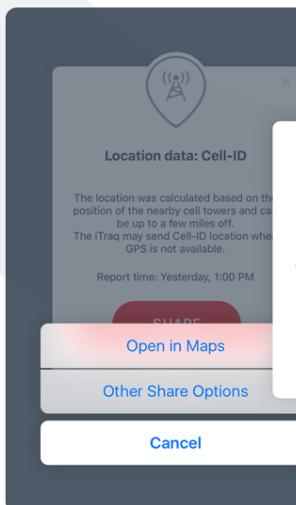
## Switching between multiple devices



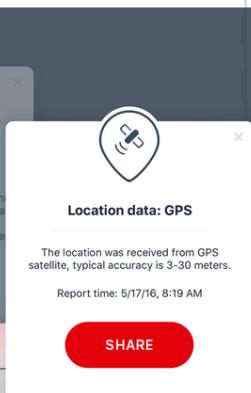
If you have multiple iTraq devices, click on the device icon on the main screen. This will show all devices added to your account.

## In-app Information Popups

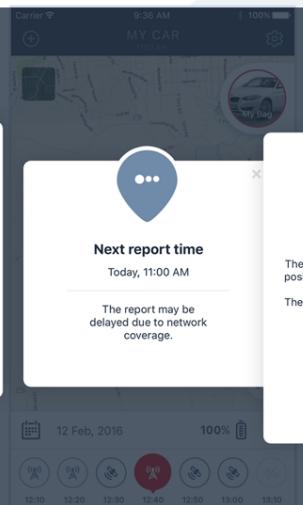
### Share location data



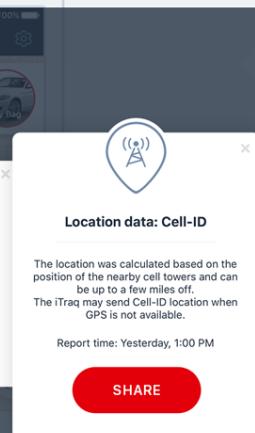
### GPS report



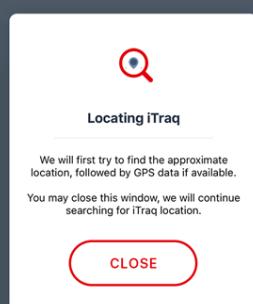
### Next report time



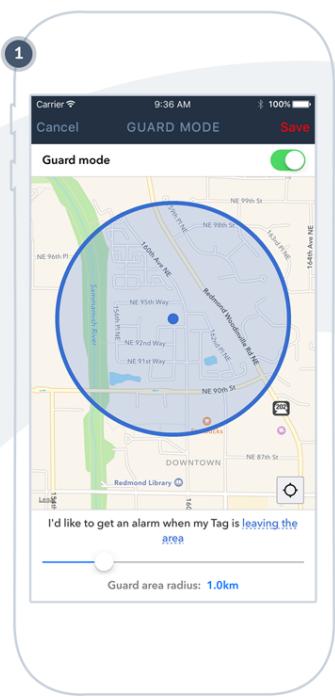
### Cell-ID report



### OnDemand ON

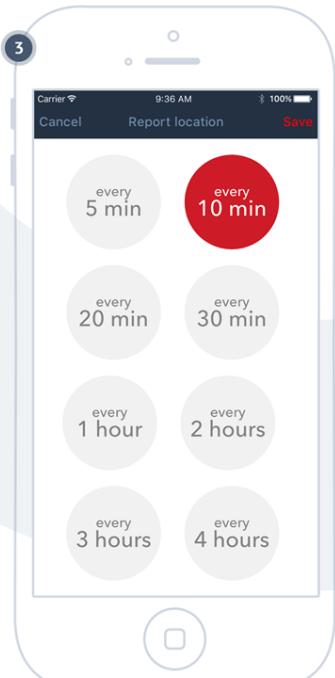


### Guard Mode



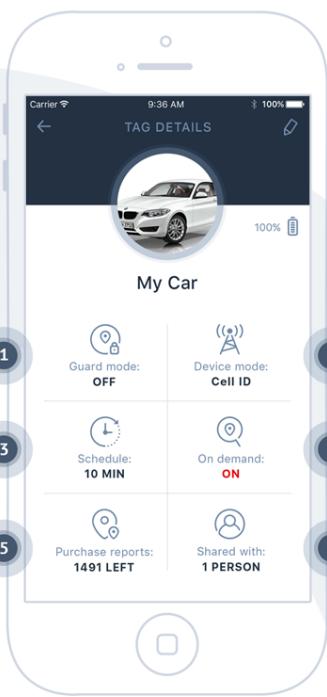
Zoom and slide the map to select the Guard Zone radius. "Leaving" or "Entering the area" criteria can be switched by clicking on the link at the bottom. Guard zone alerts are coming as notifications on your smartphone and are triggered only by the GPS coordinates.

### Scheduling reports. Reports at fixed time



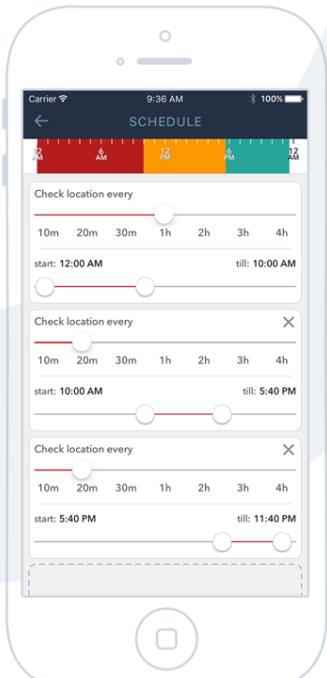
Choose how frequently do you want the device to wake up and report its location.

### Details screen



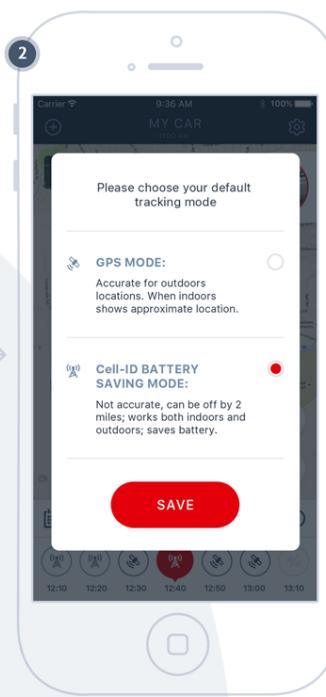
Once you click "Details" on the main screen, you can set the settings for the selected device. For more details, follow the number on the side of this screen.

### Scheduling reports. Custom schedule



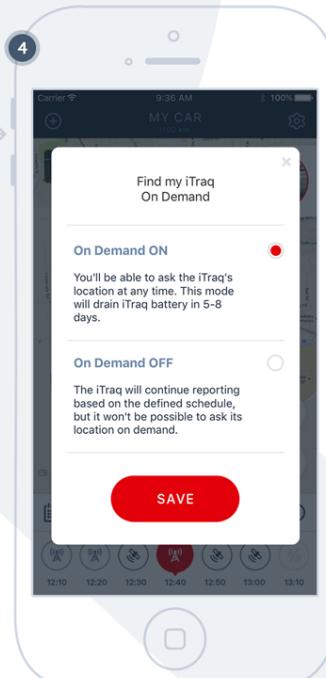
Set up custom schedule to report the location with different frequency at different times of the day.

### Switching between Cell-ID and GPS



Switch between default location tracking technology. Device will report Cell-ID or GPS location at the schedule that you set. When GPS is selected, but the device doesn't see the satellites, Cell-ID coordinate will be sent as a fall back tech.

### Turning OnDemand Mode ON and OFF



When you turn OnDemand mode ON, in addition to scheduled reports, you can ask for the device location at any time. Please note that turning this mode on will significantly reduce the battery life of the device.

# Technical specifications



## General Specifications

Dimensions	124.5x 76.5 x 18mm
Weight	134g
Battery	3.7v, Li-Ion 2400 mAh
SIM Card	Nano SIM (factory installed)
Operating Temperature	-20C ~ +60C
Certification	FCC & CE

## Standby Time

One Report per Day	6 months
One Report per Hour:	60 days
One Report every 10 minutes	10 days

## Navigation

Wi-Fi Triangulation indoor / outdoor	Yes
GPS & GLONASS	Yes
Base Station Triangulation / Cell-ID	Yes

## Wireless

GSM	2G/3G Quad Band 850/1900 MHz(US)
Bluetooth	v4.1
Wi-Fi	IEEE 802.11 b/g/n
LoRa	915MHz

## Sensors

3-axis Accelerometer	Yes
Temperature Sensor	Yes

## Materials

Housing	Matt finish painted plastic
Dust / Water resistance	IP67

## FCC statement

This device complies with Part 15 of the FCC Rules: Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference that is received, including any interference that may cause undesired operation.

RF exposure warning :

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

This device is acting as slave and operating in the 2.4 GHz (2412 ~2462 MHz) band.

Ad Hoc function is supported but not able to operate on non-US frequencies. Do not use the device with the environment which below minimum -30 °C or maximum over 50°C .

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.