

Test Model: Ultra-M

# Container Tracker Manual





Global location tracking device  
with the longest battery life

## Key benefits



Gives you peace of mind by helping you keep track of your loved ones and valuables.



Powerful mobile applications for iTraQ configuration and management.



Has extra-long battery life (up to 4 month) on a single charge.



First 2000 location reports are included in price.



Includes factory installed SIM card that works globally (with few exceptions). All you need is the cell phone reception in the area.



Provides accurate reporting outdoors with included GPS module.

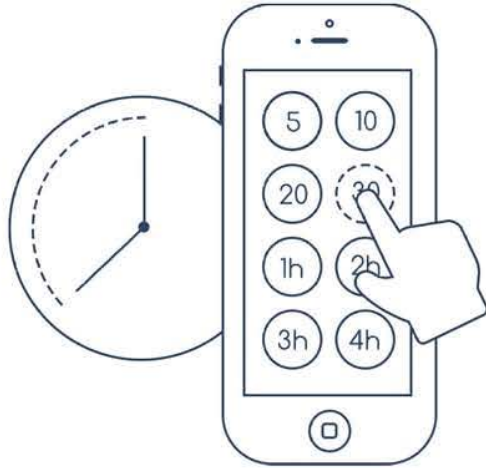
## How is it used



Use iTraQ location tracking Platform and API to:

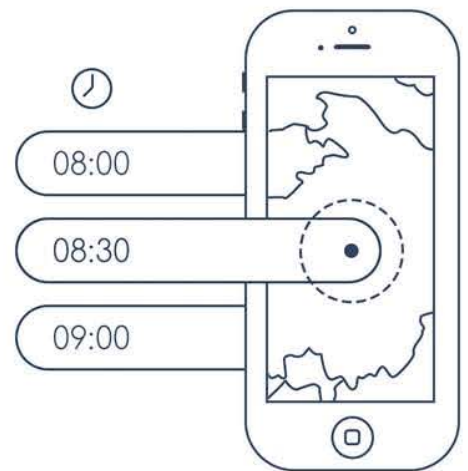
- Track your valuable assets
- Track your shipments

# How it works



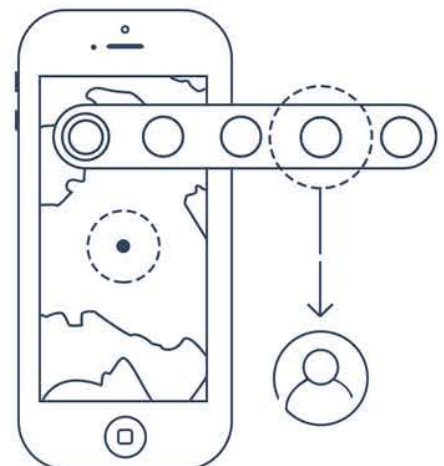
- iTraq operations are driven by the customer defined schedule. Using free iTraq mobile application (iOS or Android), customer can define the frequency of the location reports. These reports can range from every 5 minutes to once a day. The battery life depends on the frequency of the reports. More reports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

- Please note the between the reports iTraq is in the sleep state, preserving the battery. If you want to be able to wake up the device at any time and ask for its location, use OnDemand mode.



- In the iTraq mobile application you can choose which location technology will be used by iTraq: GPS (accurate, outdoors, shorter battery life) or Cell-ID (not accurate, indoors, longer battery life). If iTraq cannot get the GPS data it will revert to Cell-ID data.

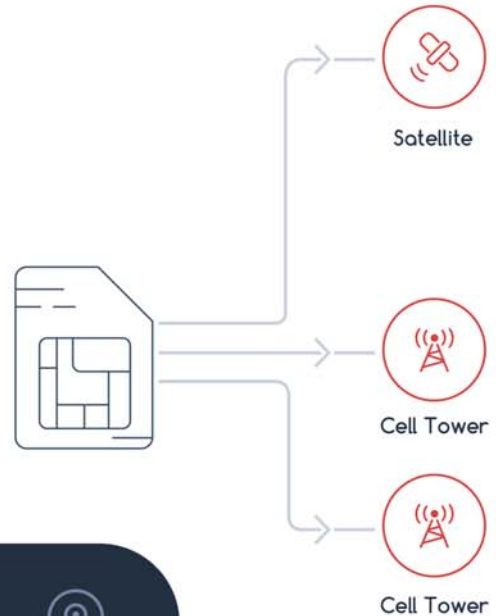
- Customer can track as many iTraq devices in one mobile application.
- Customer can share any iTraq device registered in the application with other people. They will be able to see the location of the shared iTraq, but will not be able to change its schedule.





## Connectivity

Container tracker comes with global SIM card pre-installed. This SIM card works in most countries (except Japan and Korea). Your subscription to iTraq service includes global roaming and no extra fees required. 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 iTraq 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.



## Location tracking technologies



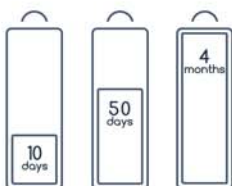
iTraq is using the following location tracking technologies:

**GPS** – with accuracy of 10-30 meters when the device has visibility of the GPS satellites (usually outdoors).

**Cell ID** – cell tower triangulation technology calculates the location of the device based on the location of the nearby cell towers. Not very accurate. Based on the location of the towers can be off by few miles.

## Replacing batteries

Unscrew 8 screws and open the cap.  
Replace a battery pack with 14 AA batteries inside. Use 8 screws to close the cap.



## 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.

# Updating the firmware



Container tracker device can be updated over Bluetooth.

Device is turned on by default. Open device and hold a button for 10 seconds to reboot it. It will turn on Bluetooth update mode for 30 seconds.

If you will look for available Bluetooth devices (from your phone) during this 30 seconds interval you will see the Bluetooth device with the name that starts with "Chep-"

Use Android app "nRF Toolbox" to update the firmware. You will need a file with .bin extension. Please contact [support@itraq.com](mailto:support@itraq.com) to get it .



## iTraq service subscription

12:00

iTraq comes with **2000 location reports** that have expiration time of one month.

12:30

This means that once you will use 2000 location reports or one month after the device activation, you will need to have a subscription to iTraq services to continue to use iTraq.

13:00

13:30

The count of location reports and expiration time count starts from the moment when you added iTraq to your mobile application (activated your iTraq) Annual subscription: \$59/year.

14:00

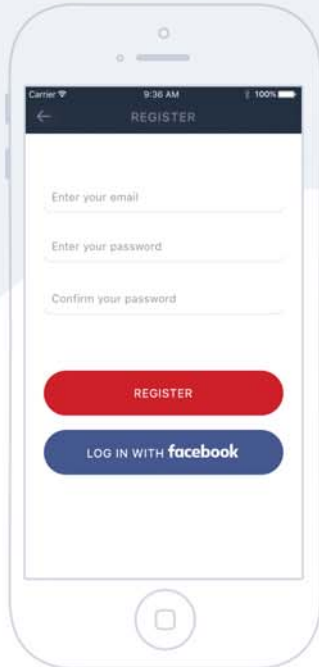
14:30

Monthly subscription: \$5.9/month Subscriptions are non-refundable, so you will not get the pro-rated refund if you will decide to stop using your iTraq and cancel your subscription.

16:00

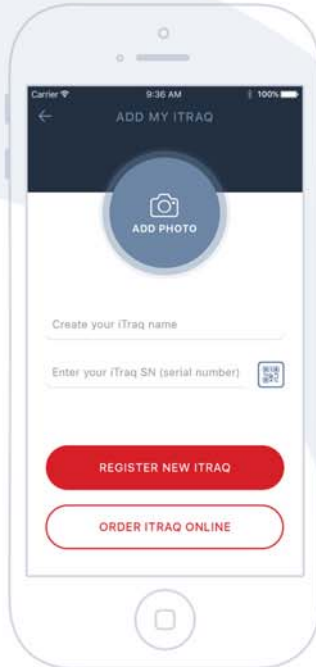
# Using a mobile application

Registering for the first time



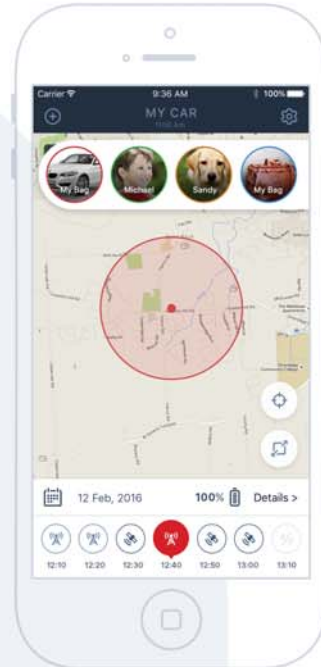
When registering for the first time, enter your Email and password. For simplicity, you can Login with your Facebook account.

Adding another iTraq



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 iTraq 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

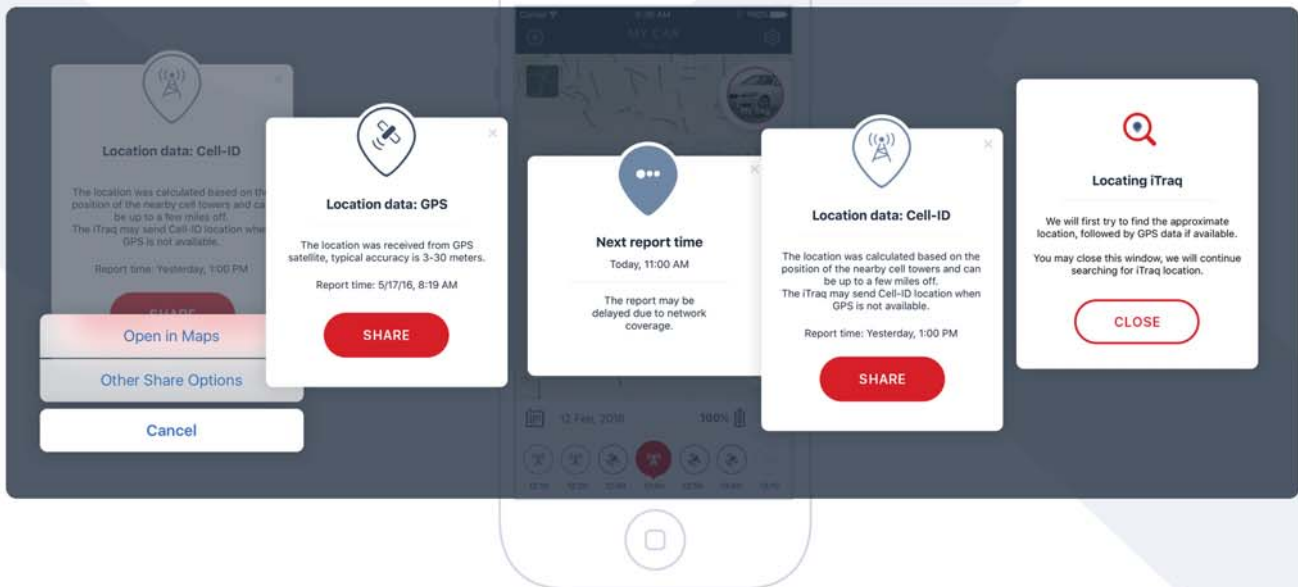
Share location data

GPS report

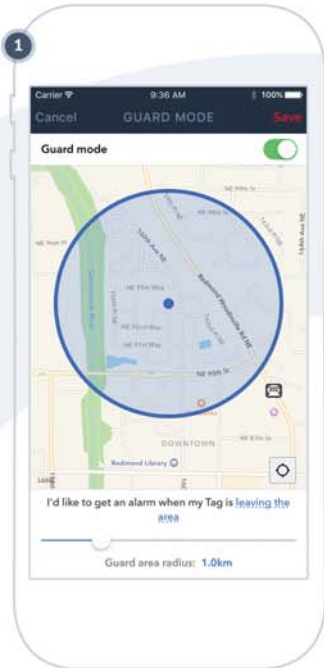
Next report time

Cell-ID report

OnDemand ON



### Guard Mode



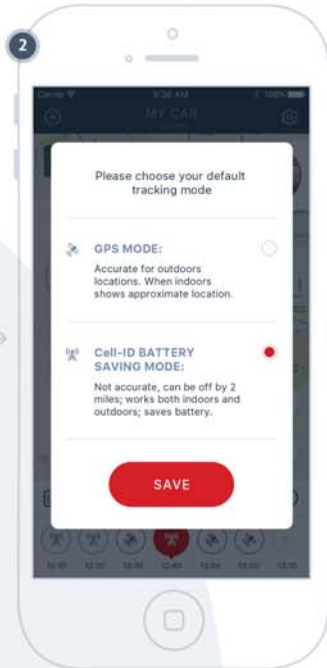
Zoom and slide the map to select the Guard Zone radius. "Leaving" or "Entering the area" criteria can be switched by clicking on the link at the bottom. Guard zone alerts are coming as notifications on your smartphone and are triggered only by the GPS coordinates.

### Details screen



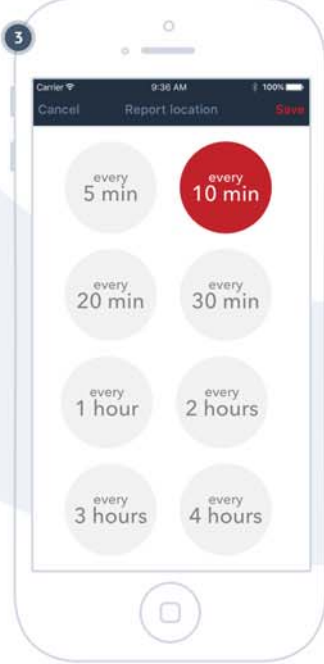
Once you click "Details" on the main screen, you can set the settings for the selected iTraq device. For more details, follow the number on the side of this screen.

### Switching between Cell-ID and GPS



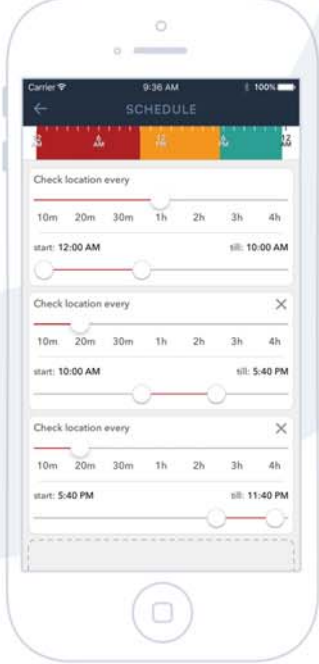
Switch between default location tracking technology. Device will report Cell-ID or GPS location at the schedule that you set. When GPS is selected, but the device doesn't see the satellites, Cell-ID coordinate will be sent as a fall back tech.

### Scheduling reports. Reports at fixed time



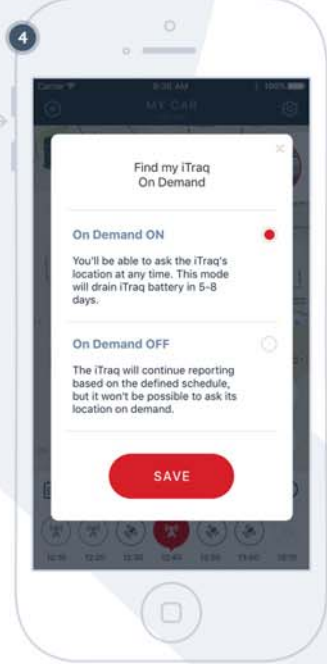
Choose how frequently do you want the device to wake up and report its location.

### Scheduling reports. Custom schedule



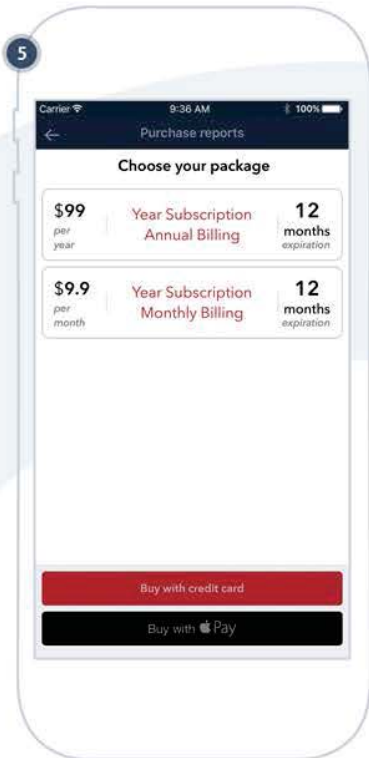
Set up custom schedule to report the location with different frequency at different times of the day.

### Turning OnDemand Mode ON and OFF



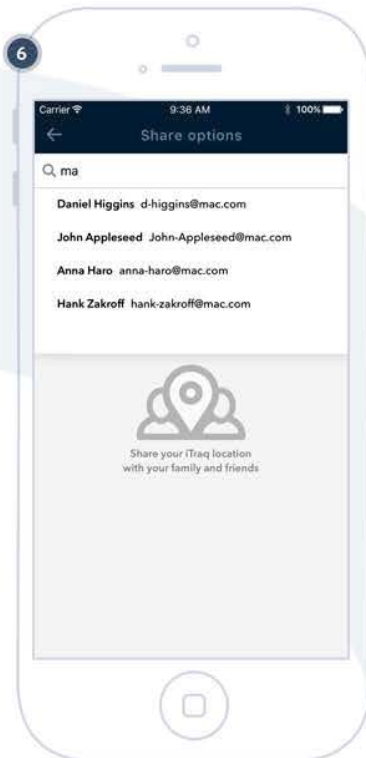
When you turn OnDemand mode ON, in addition to scheduled reports, you can ask for the device location at any time. Please note that turning this mode on will significantly reduce the battery life of the device.

### Buying iTraq subscription



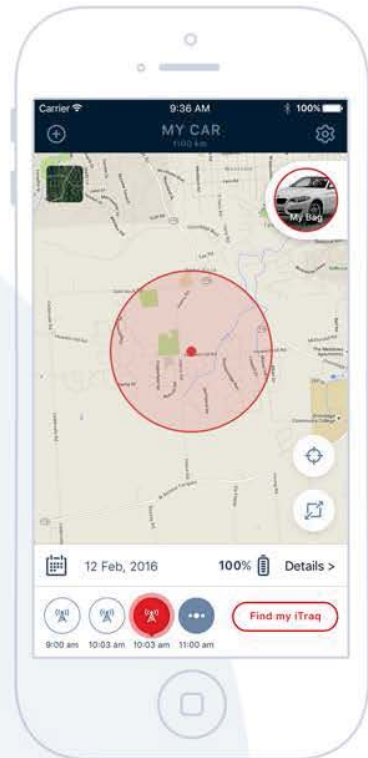
When you buy your iTraq location service, it includes unlimited number of location reports for the selected period. Subscription is non-refundable.

### Sharing your iTraq with other people



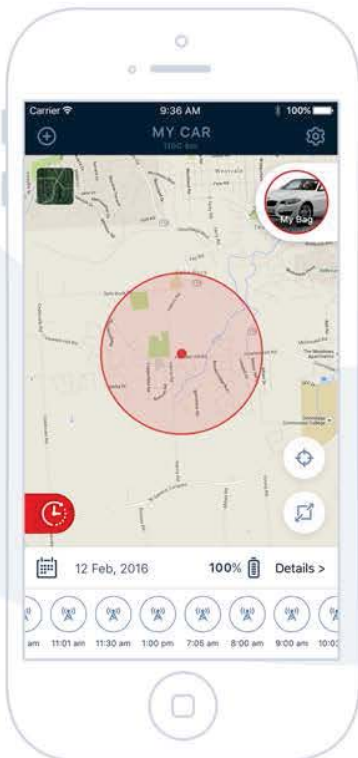
You can share your iTraq with other people. Just enter their Email and ask them to install iTraq application using this Email for registration. They will receive notification that iTraq had been shared with them.

### iTraq found in OnDemand mode



Turn OnDemand mode ON, to see "Find my iTraq" button on the main screen. You can click it at any time to get the iTraq location. It will take 2-3 minutes to find iTraq and report its location. Location reported in this mode will blink red for few minutes.

### Waiting for changes to be sent to iTraq



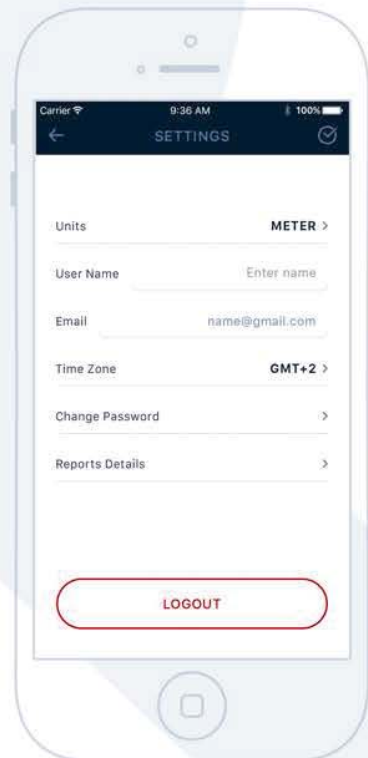
Once you made changes to the device settings (Schedule, OnDemand, Guard zone, GPS vs Cell-ID etc..), you will see this red spinning watch icon on the screen. It will be present until the new info is sent to the device.

### Edit iTraq information. Deleting iTraq



Click "pencil" icon on the "Details" screen to see/edit device information. This is also the place where you can delete the device from your account. (It is useful, when you transfer ownership to another person).

### Account settings



Click Cogwheel icon on the main screen to Edit/change account settings.



# Technical specifications



## Power and Battery Life

---

- Battery: Battery pack with 14 x AA batteries
- Battery charging: Not supported
  - 135 days with once a day reports
  - 45 days with once an hour reports
  - 10 days with once every 10 min reports

## Sensors

---

- Temperature, 2 x Light, Accelerometer, Magnetometer, Gyroscope
- Location (CellID+GPS+WiFi)

## Temperature Range

---

- Storage temperature range is -10...60C (14-140F)
- Operating temperature range is 0...45C (32-113F)

## Firmware update

---

- Firmware update over Bluetooth

## Dimensions

---

- 150 x 173 x 30 mm

## Tracking

---

- GPS, Cell-ID, WIFI
- Cellular communications:
  - 2G GSM, Operating Frequencies 850MHz, 900MHz, 1.8GHz, 1.9GHz
  - 3G Operating Frequencies 800/850/900/1900/2100

## Ping Data Frequency

---

- **Optimal:** 60 minutes
- **Maximum:** 1440 mins (24 hours)  
Over-the-air updating of device settings - yes

## Weight

---

- 529 g = 19 Oz

#### Warning:

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 received, including interference that may cause undesired operation.

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

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.
- NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

#### RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm from the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

3G: Test data refers to FCC ID:XPYSARAU280