MEITRACK iButton User Guide

Applicable Model: T1/T333/MVT600/T622/T366/T366G

Change History

File Name	MEITRACK iButton User Guide	Created By	Hilmar Lin
Project	T1/T333/MVT600/T622/T366/T366G	Creation Date Update Date	2015-08-13 2017-08-17
Subproject	Accessory User Guide	Total Pages	15
Version	V1.1	Confidential	External Documentation

Contents

1 Copyright and Disclaimer

The user manual may be changed without notice.

Without prior written consent of Meitrack Group, this user manual, or any part thereof, may not be reproduced for any purpose whatsoever, or transmitted in any form, either electronically or mechanically, including photocopying and recording.

Meitrack Group shall not be liable for direct, indirect, special, incidental, or consequential damages (including but not limited to economic losses, personal injuries, and loss of assets and property) caused by the use, inability, or illegality to use the product or documentation.

2 Specifications

Item	Specifications
Dimension	17.35 mm x 3.1 mm–5.89 mm
Material	304 stainless steel
Operating temperature	-40°C to 85°C
Communication protocol	1-wire protocol

3 Main Device and Accessory

iButton reader

iButton key

Buzzer (optional)

4 iButton Functions

- Identify the driver ID and grant permission to start the vehicle.
- Through MS03 platform, drivers' attendance can be collected by driver I/O status history.

5 Firmware Version

T1	All firmware supports iButton. T1B_V010 and later versions: If the tracker's output 2 is connected to a buzzer, a "beep" sound will be made.
T333	All firmware supports iButton. T333_V009 and later versions: If the tracker's output 2 is connected to a buzzer, a "beep" sound will be made.
MVT600	All firmware supports iButton. If the tracker's output 2 is connected to a buzzer, a "beep" sound will not be made.
T622	All firmware supports iButton. If the tracker's output 1 or output 2 is connected to a buzzer, a "beep" sound will be made.
T366/T366G	All firmware supports iButton. If the tracker's output 1 is connected to a buzzer, a "beep" sound will be made. However, it cannot work with the function for starting the engine by iButton.

6 Installing the iButton Reader

6.1 Attaching the iButton Reader to Your Vehicle

Attach the iButton reader to your vehicle according to your needs.

6.2 Connecting the iButton Reader to a Tracker

The iButton reader has 2 types of connectors as follows:

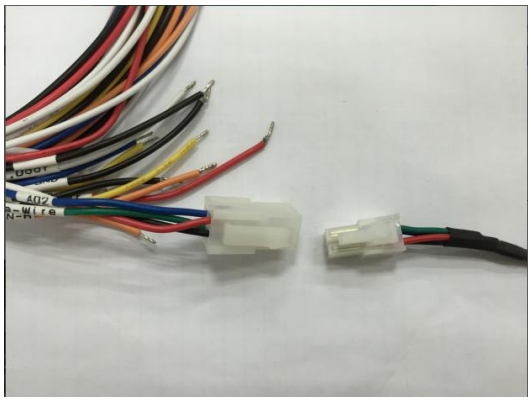
3 mm connector

4 mm connector

1. Connect the iButton reader to the T1/T333/T622/MVT600.

You can use any of the following ways to connect the iButton reader to the tracker:

(1) Plug the iButton reader's connector (4 mm) into the tracker's white dedicated port for a temperature sensor and fuel level sensor.



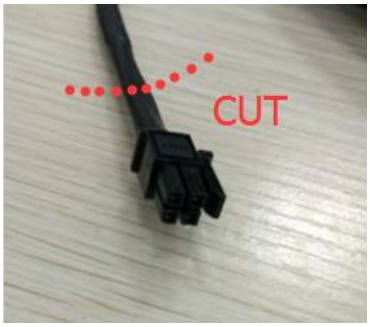
According to the above figure, the white interface on the left is the tracker's dedicated port for a temperature sensor and fuel level sensor, and the white interface on the right is the iButton reader's connector.

(2) When you want to use the iButton reader and temperature or fuel level sensor at the same time, an A61 sensor box is a must. Besides, the iButton reader's 3 mm connector will be used.

2. Connect the iButton reader to the T366/T366G.

You can use any of the following ways to connect the iButton reader to the tracker:

(1) Cut off the iButton reader's connector, as shown in the following figure. Then connect the iButton reader to the tracker according to the wiring instructions in the following table.



T366/T366G Cables	iButton Reader Cables
Green cable	Red cable
Black cable	Black cable

(2) Use the A61 sensor box and iButton reader's 3 mm connector. Cut off the A61 sensor box's connector, as shown in the following figure on the left. Then connect the iButton reader to the tracker according to the wiring instructions in the following table.

T366/T366G Cables	A61 Sensor Box Cables
Red cable	Red cable
Black cable	Black cable
Green cable	Green cable
Blue cable	Blue cable

After the iButton reader is connected to a tracker, once the iButton key touches the reader, the reader will be activated. If the tracker's output 2 is connected to a buzzer, a "beep" sound will be made.

7 Using iButton

For details about how to use iButton, see the following sections.

7.1 Obtaining iButton ID

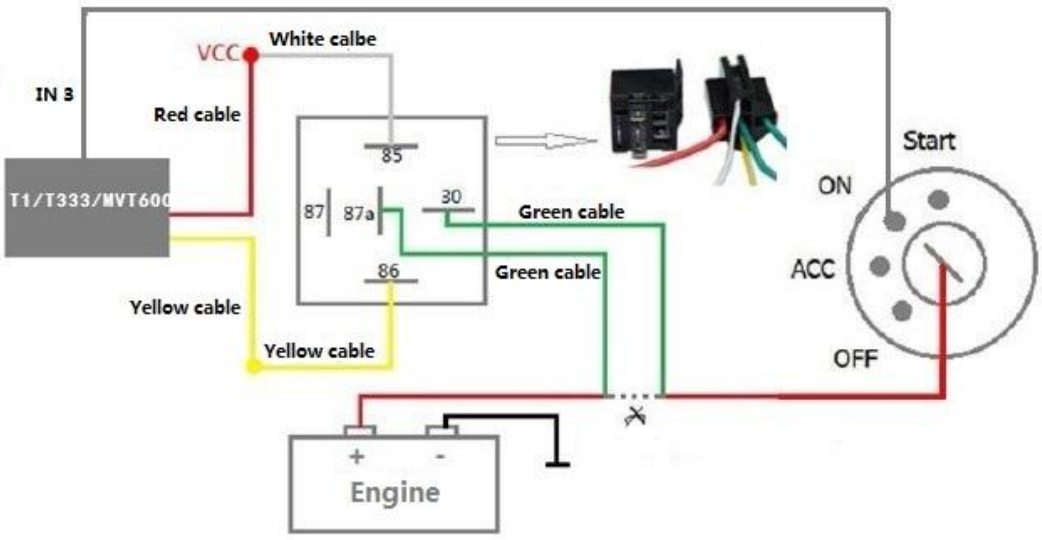
Each iButton key has an ID number, which is in hexadecimal format.

For example, the last six digits among the hexadecimal digits are "1BF32F". Their decimal digits are "1831727", so the iButton ID number is **1831727**.

7.2 Starting the Engine by iButton

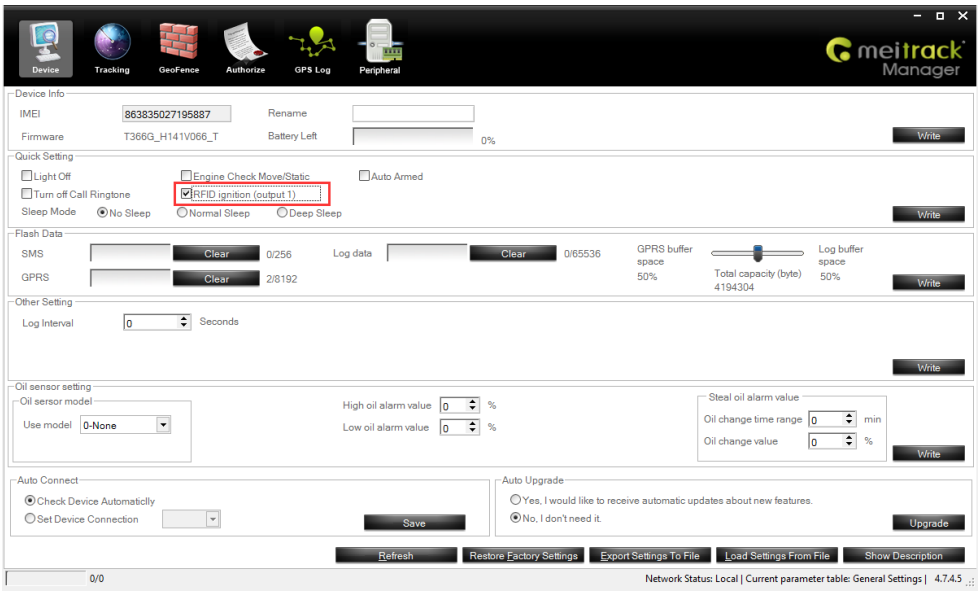
Before starting the engine, ensure that:

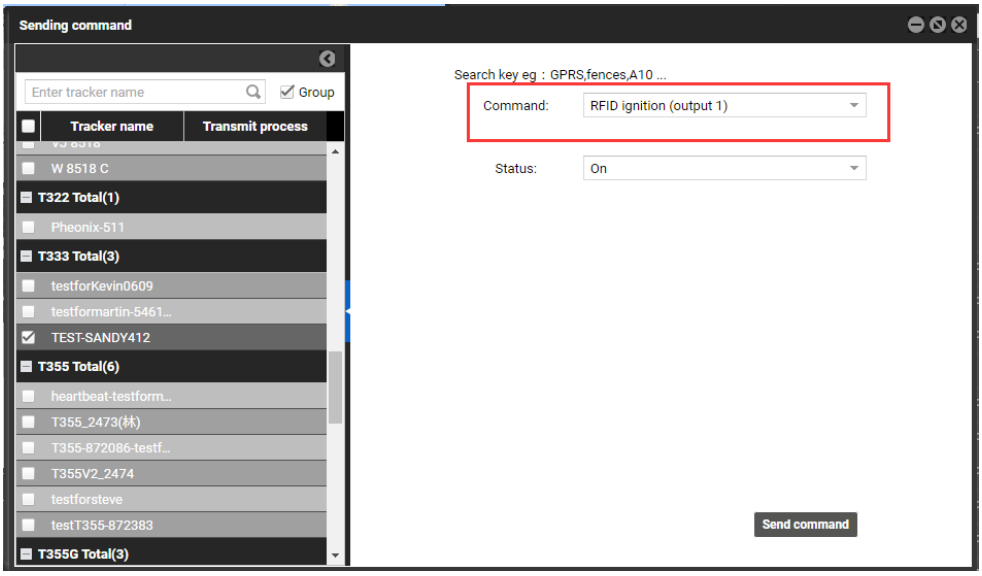
1. The T1/T333/MVT600/T622's input 3 or T366/T366G's input 2 is connected to the engine detection cable.
2. An iButton key has been authorized.
3. The tracker's output 1 is connected to the engine control cable through a relay, as shown in the following figure.



Note: For details about how to authorize an iButton key, see the section 7.5.1 "Authorizing iButton Keys."

4. The RFID ignition function has been enabled by Meitrack Manager or MS03 tracking platform.





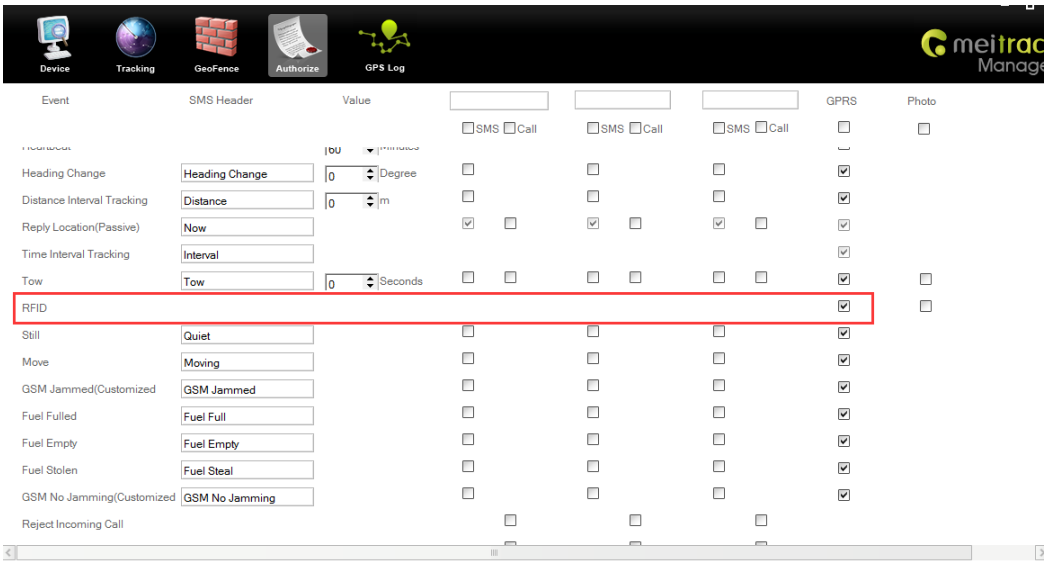
Note: For the T366/T366G, you must make sure the RFID event has been enabled. Otherwise, the function will be unavailable.

7.3 How iButton Works

After the authorized iButton key touches the iButton reader, the driver must start the engine within 1 minute. Otherwise, the tracker's output 1 will be triggered (engine cut-off), and thus the driver cannot start the vehicle. At the moment, if you want to start the engine, swipe the iButton key again.

7.4 Configuring iButton by Meitrack Manager

1. Connect your tracker to a computer and run Meitrack Manager.
2. Meitrack Manager will automatically detect the device, and the **Device** tab page for default parameters is displayed.
3. Select **Authorize**. On the tab page that is displayed, select **RFID** on the **GPRS** column.



Note: If this RFID option is deselected, the MS03 platform cannot collect statistics on iButton event reports after you swipe an iButton key. The RFID event is enabled by default.

7.5 Configuring iButton by MS03

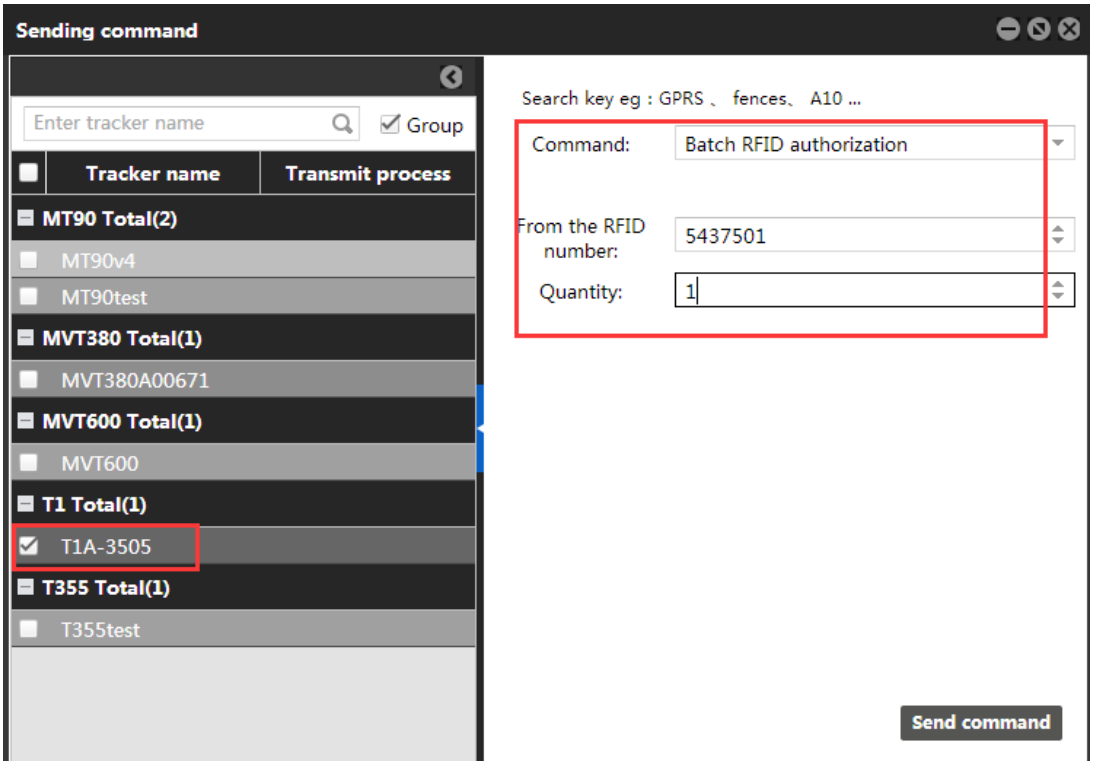
You can authorize, delete, query, and manage iButton keys on MS03. Related commands are as follows:

Function	Command
Authorize iButton keys	Authorizing an RFID Card – D10
	Authorizing RFID Cards in Batches – D11
Delete iButton keys	Deleting Authorized RFIDs in Batches – D15
Manage iButton keys	On the **Management** page, set **driver info** and **RFID card**.
Query iButton keys	Checking RFID Authorization – D12

7.5.1 Authorizing iButton Keys

1. On the main interface, choose **Management**.
2. On the **Management** window that is displayed, select **Sending command** from **Use Normal**. The **Sending command** window is displayed.
3. Select one or multiple trackers, select the **Batch RFID authorization** command, specify **From the RFID number** and **Quantity**, and click **Send command**.

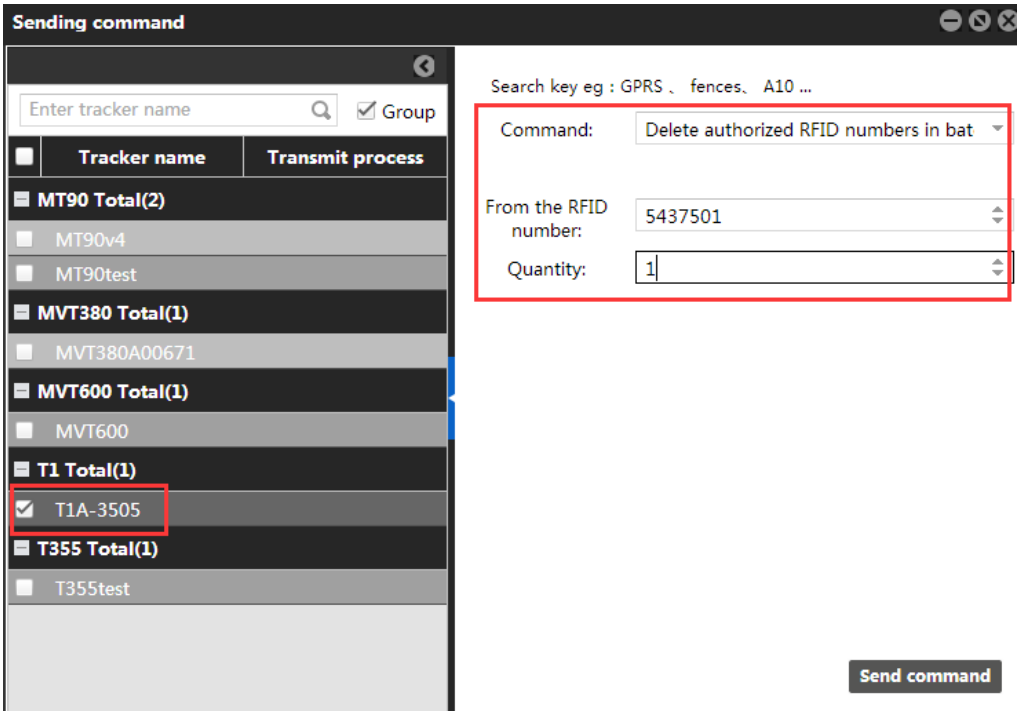
If only one iButton key needs to be authorized, set **Quantity** to **1**.



7.5.2 Deleting Authorized iButton Keys

1. On the main interface, choose **Management**.
2. On the **Management** window that is displayed, select **Sending command** from **Use Normal**. The **Sending command** window is displayed.
3. Select one or multiple trackers, select the **Delete authorized RFID numbers in batches** command, specify **From the RFID number** and **Quantity**, and click **Send command**.

If only one authorized iButton key needs to be deleted, set **Quantity** to **1**.



7.5.3 Managing iButton Keys

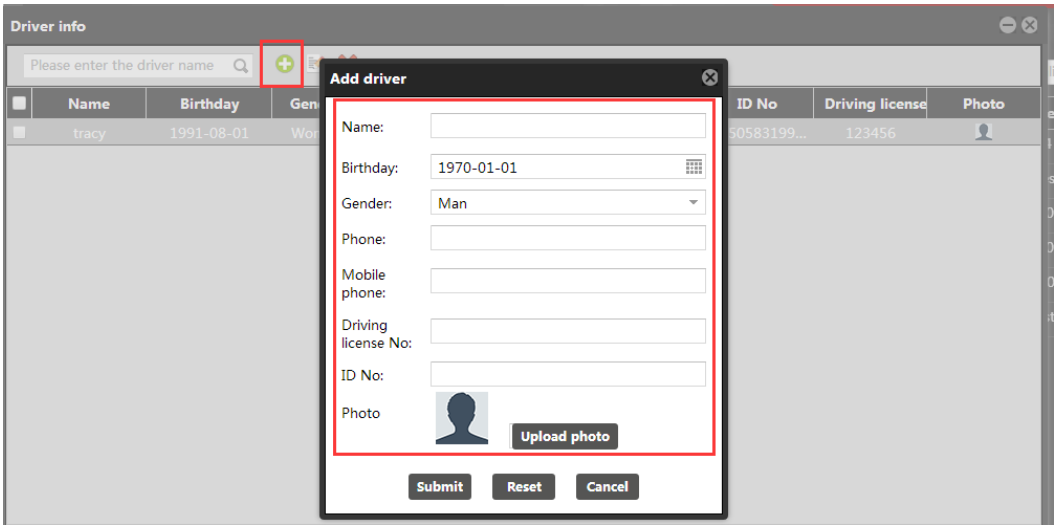
To collect statistics on drivers' driving records by iButton report (that is, driver I/O status report), add driver information first and then bind a driver to an iButton key.

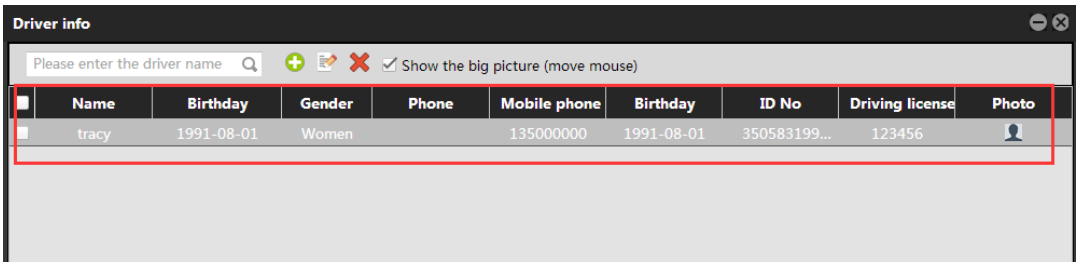
1. Add a driver.

On the main interface, choose **Management**.

On the **Management** window that is displayed, select **Driver Info** from **Use Normal**. The **Driver Info** window is displayed.

Click  . On the **Add driver** window that is displayed, add driver information, and click **Submit**.

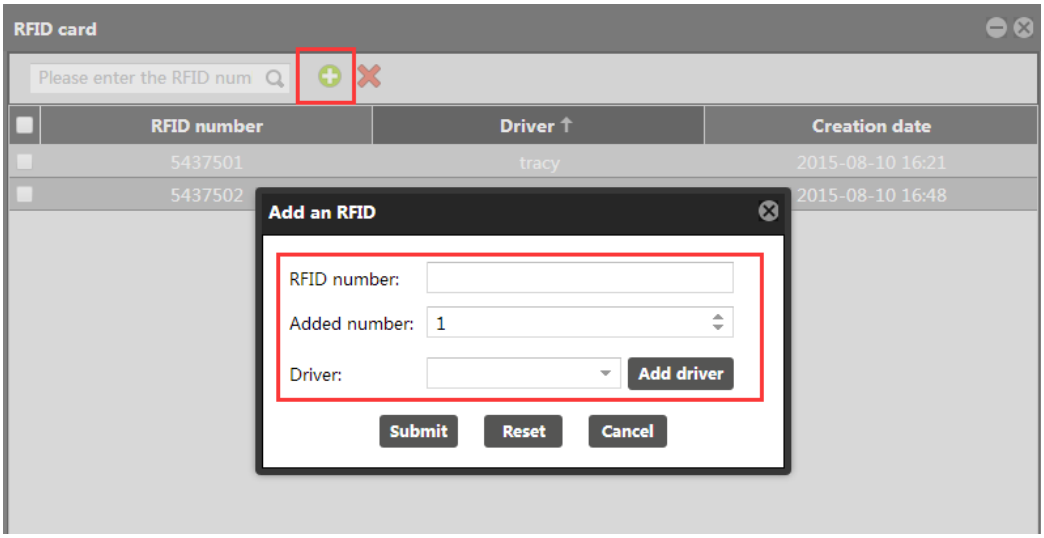


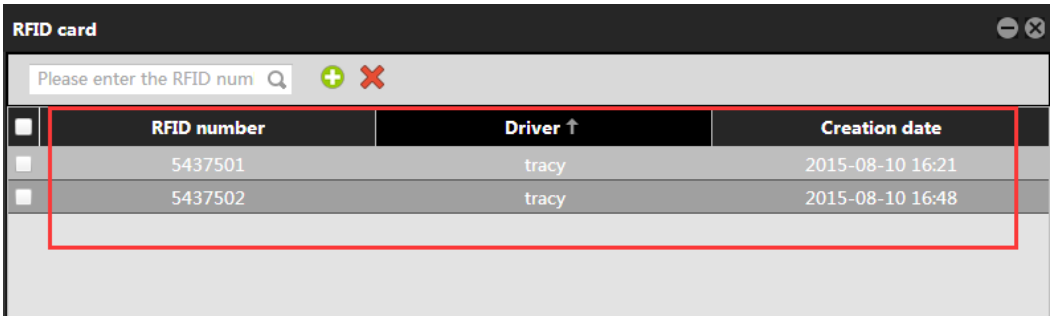


2. Add an iButton key.

On the **Management** window, select **RFID car**d from **Use Normal**. The **RFID card** window is displayed.

Click  . On the **Add an RFID** window that is displayed, set the iButton key's ID number and bind a driver. These information will be included in a driver I/O status report.





Note:

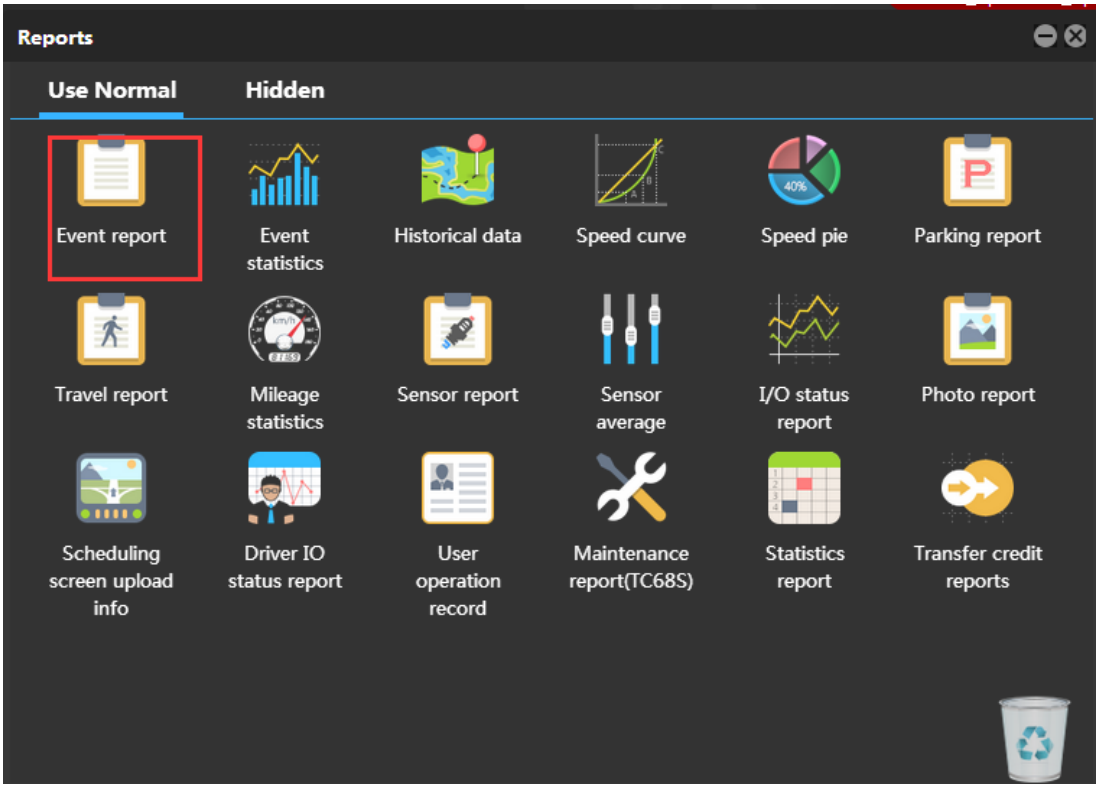
1. To manage iButton keys, driver information must be added first.
2. You can query a driver's driving mileage, parking time, time and location of starting or stopping the vehicle by driver I/O status report.

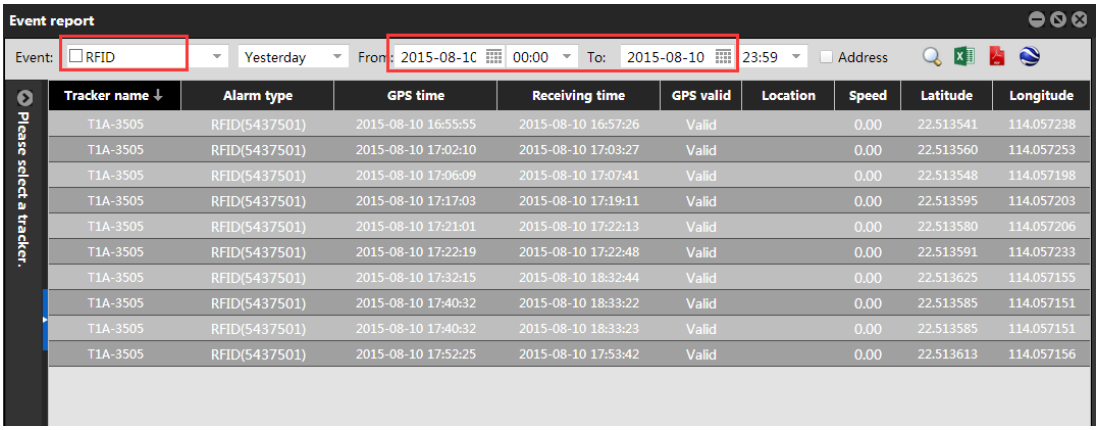
8 Querying Reports on MS03

On MS03, iButton alert event reports can be obtained from the RFID alert event reports.

8.1 Event Report

1. On the main interface, choose **Reports**.
2. On the **Reports** window that is displayed, select **Event report** from **Use Normal**. The **Event report** window is displayed.
3. Select a tracker and **RFID** from the **Event** drop-down list, set the query time, and click  . The results about iButton readers will be displayed, as shown in the following figure.

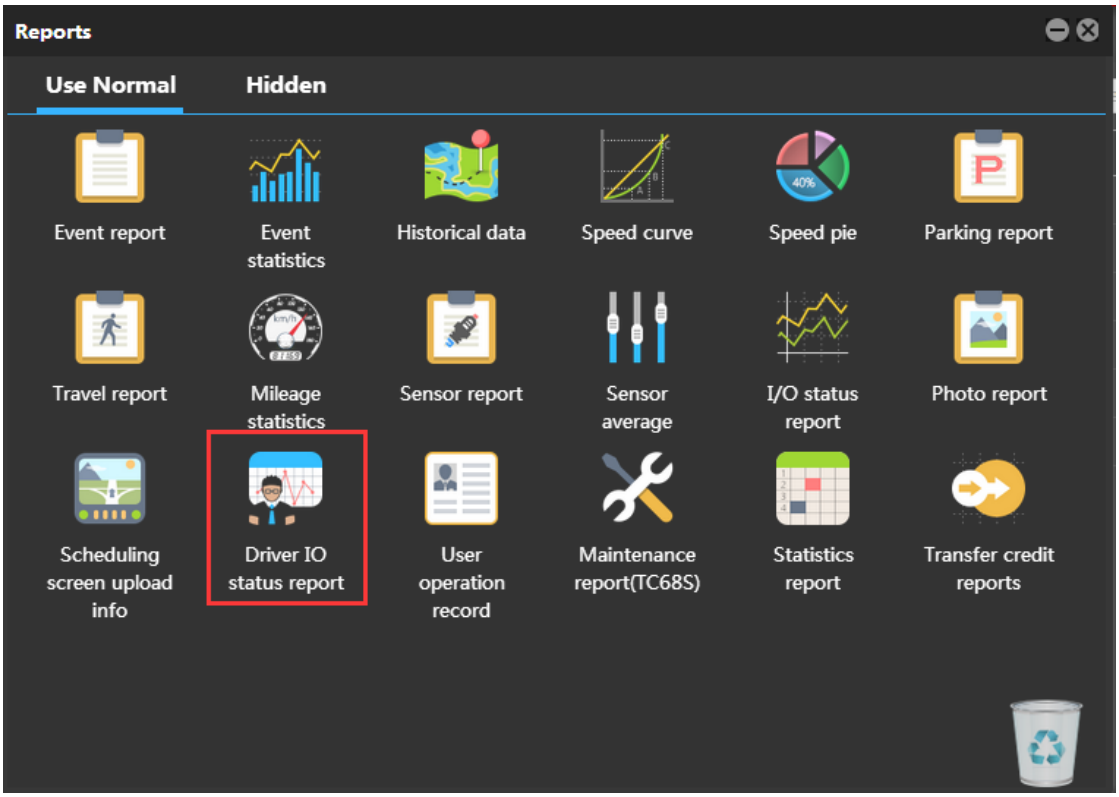


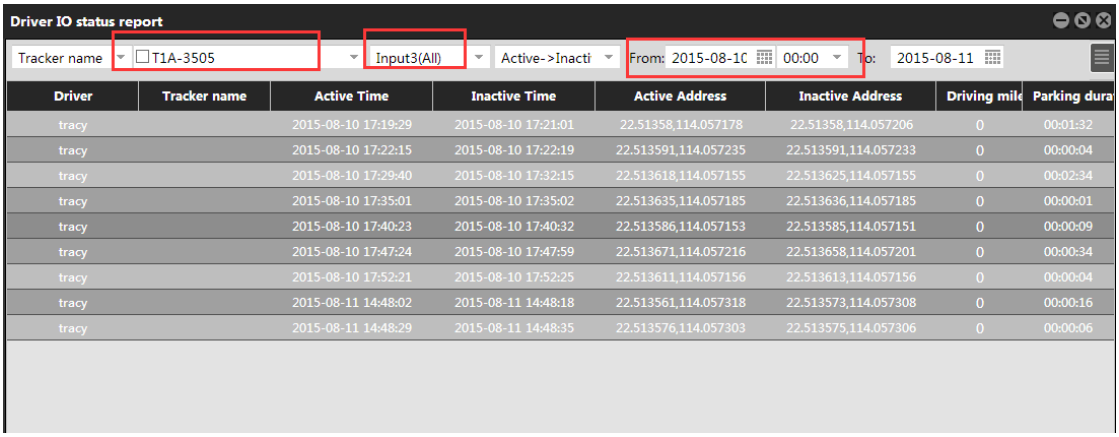


8.2 Driver I/O Status Report

1. On the **Reports** window, select **Driver IO status report** from **Use Normal**. The **Driver IO status report** window is displayed.

2. Select a tracker or driver, set the I/O status and query time, and click . The driving records will be displayed.





Note: In this report, the T1/T333/MVT600/T622's input 3 or T366/T366G's input 2 is connected to the engine detection cable. You can obtain the driver's driving time, mileage, and parking time from this report.

If you have any questions, do not hesitate to email us at info@meitrack.com.