MEITRACK RFID User Guide

Applicable Model: T1/T333/MVT600

Change History

File Name	MEITRACK RFID User Guide	Created By	Tracy Lv
Project	T1/T333/MVT600	Creation Date Update Date	2013-10-16 2015-09-09
Subproject	Accessory User Guide	Total Pages	13
Version	V1.6	Confidential	External Documentation

Contents

1 Copyright and Disclaimer

2 Specifications

Item	Specifications
Dimension	79 mm x 42 mm x 13 mm
Weight	150g
Power consumption	25 mA
Operating temperature	-20°C to 55°C
Operating humidity	5%–95%
Operating voltage	5 V
Internal resistance	3.6R

3 Appearance

RFID reader

RFID card

4 RFID Functions

- Identify the driver ID and grant permission to start the vehicle.
- Through MS03 platform, driving habits can be evaluated by driver I/O status history.

5 Installing the RFID Reader

5.1 Attaching the RFID Reader to Your Vehicle

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

5.2 Connecting the RFID Reader to a Tracker

- Plug the RFID reader connector into the dedicated port of a tracker.

  Dedicated RS232 ports of the T1/T333 are as follows:

  Dedicated Wiegand 26 ports of the MVT600 are as follows:

- RFID reader's status after it is connected to a tracker

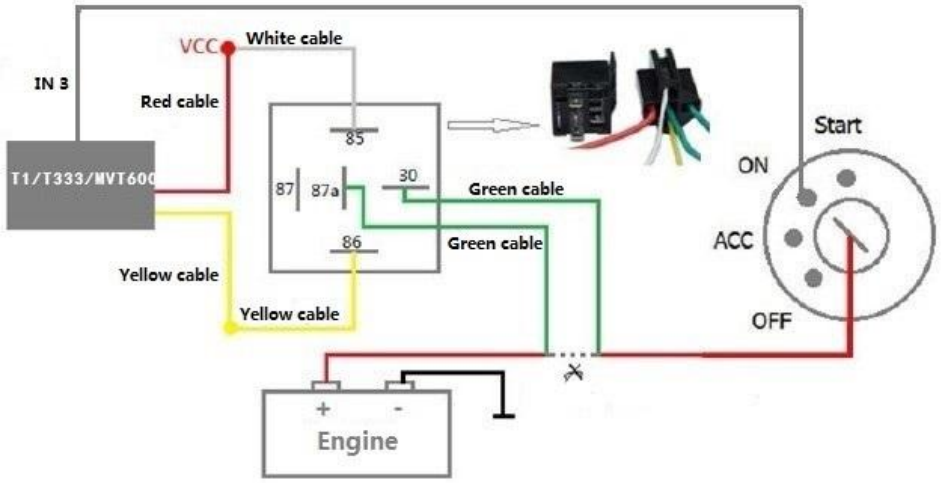
  After the RFID reader is connected to a tracker (T1/T333/MVT600), power on the tracker, then the indicator of the RFID reader will blink red. When you swipe the RFID card on the RFID reader, the indicator of the RFID reader will blink green and a "beep" sound will be heard. In this situation, data recording starts.

6 Using RFID

6.1 RFID Control Output 1 (Starting the Engine)

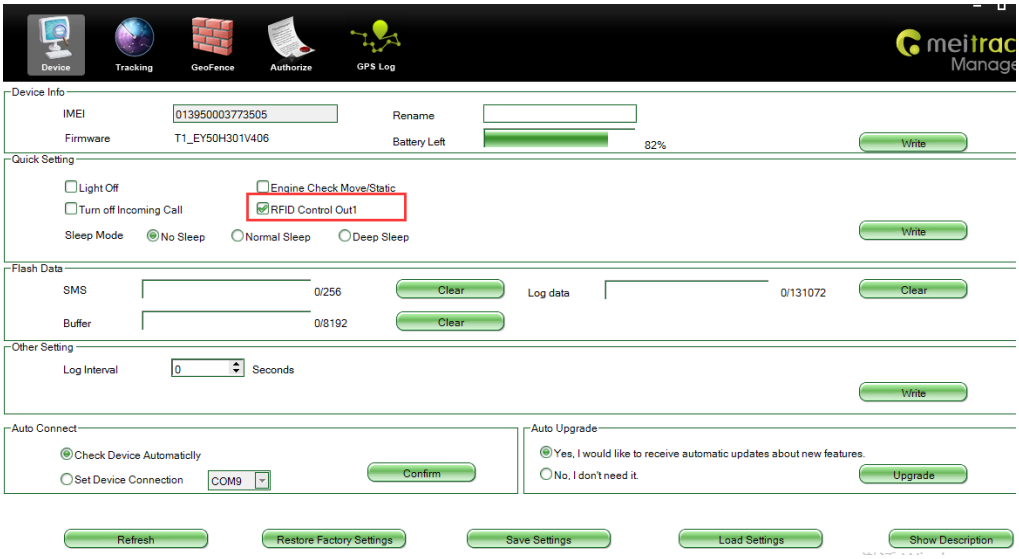
Before starting the engine, ensure that:

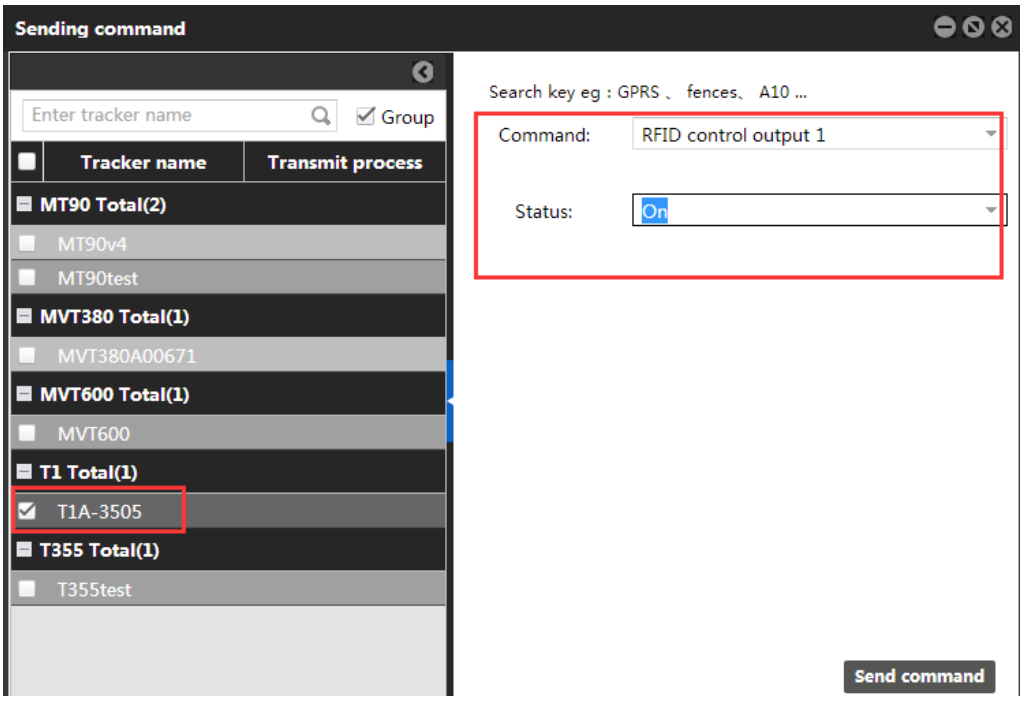
1. Input 3 of the tracker is connected to the engine detection cable.
2. A RFID card has been authorized.
3. Input 1 of the tracker is connected to the engine control cable through a relay, as shown in the following figure.



Note: For details about how to authorize a RFID card, see the section 6.4.1 "Authorizing RFID Cards in Batches."

4. The RFID control output 1 function has been enabled by Meitrack Manager or MS03.



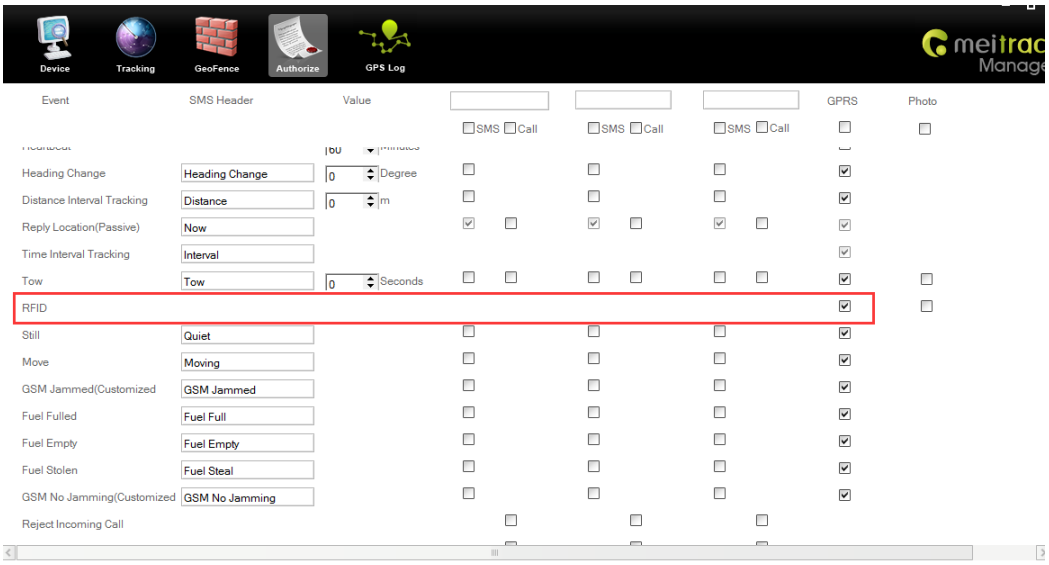


6.2 How RFID Works

After swiping the authorized RFID card on the RFID reader, the driver must start the engine within one minute. Otherwise, input 1 of the tracker will be triggered (engine cut-off), and thus the driver cannot start the vehicle. At the moment, if you want to start the engine, you must swipe the RFID card again.

6.3 Configuring RFID 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.



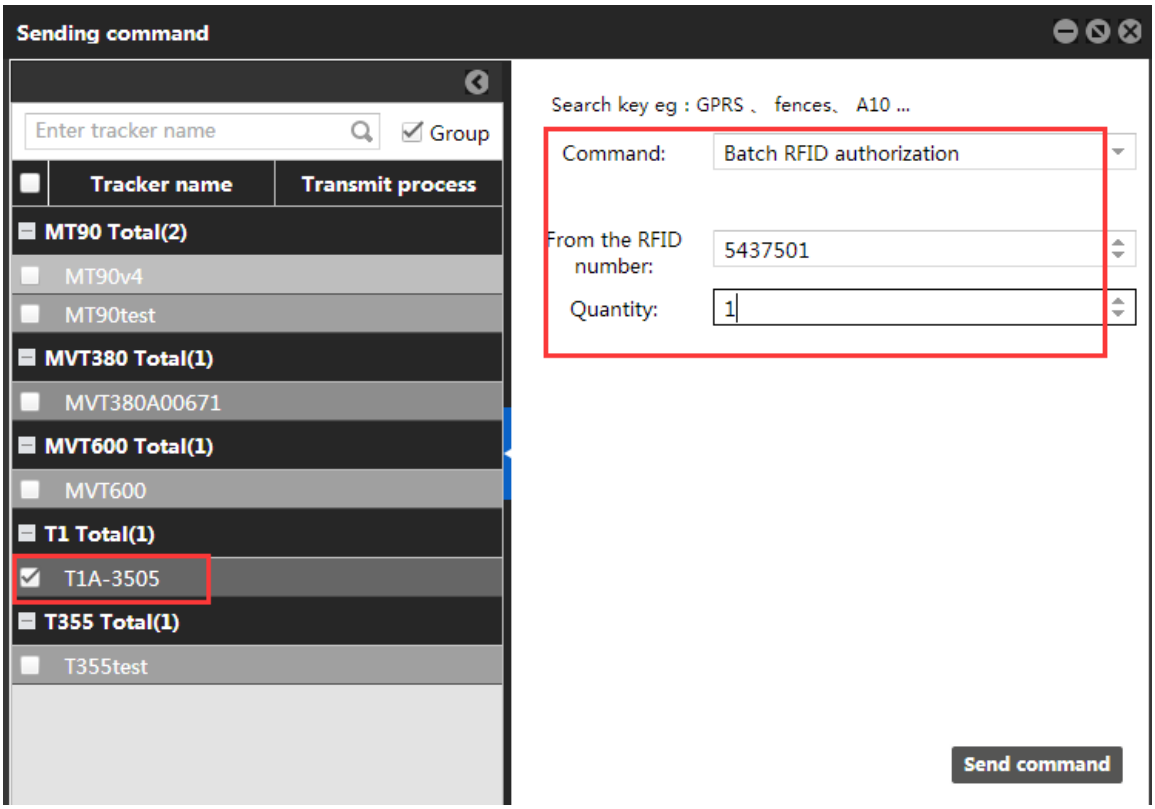
Note: If this RFID option is deselected, the MS03 platform cannot collect statistics on RFID event reports after you swipe a RFID card. The RFID event is enabled by default.

6.4 Configuring RFID by MS03

6.4.1 Authorizing RFID Cards in Batches

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**.

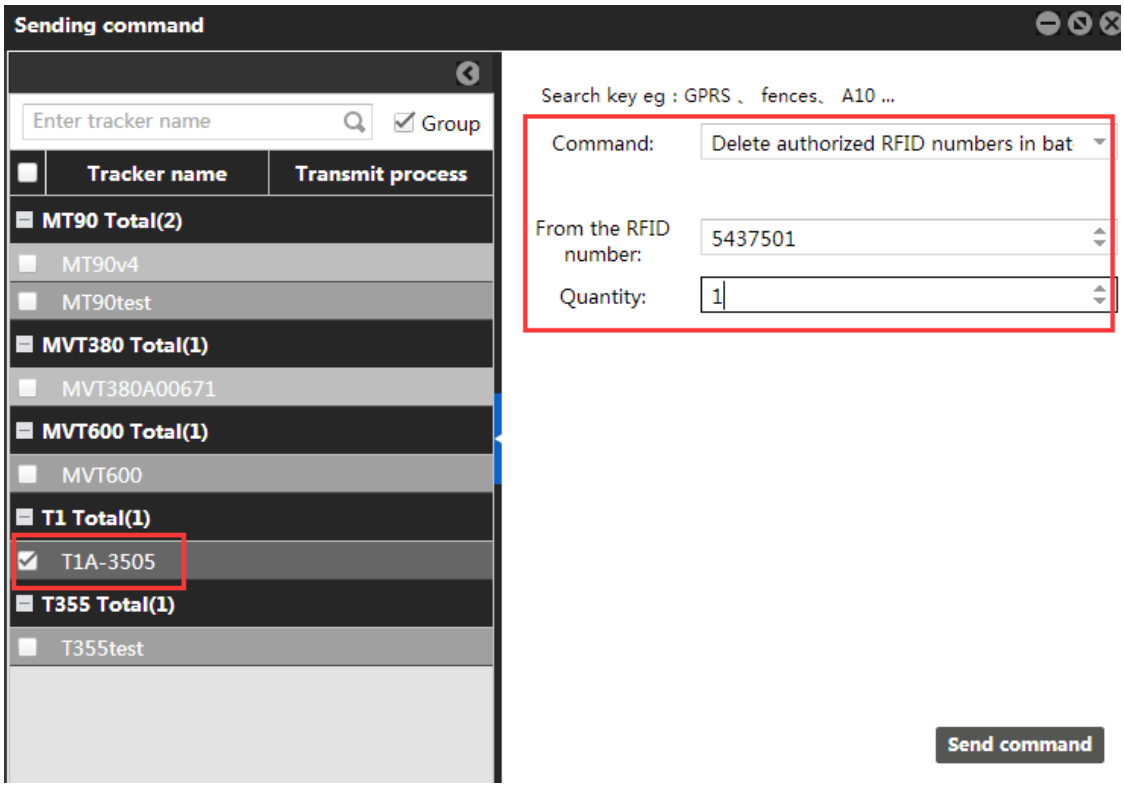
If only one RFID card needs to be authorized, set **Quantity** to **1**.



6.4.2 Deleting Authorized RFID Cards in Batches

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 RFID card needs to be deleted, set **Quantity** to **1**.



6.4.3 Managing RFID Cards

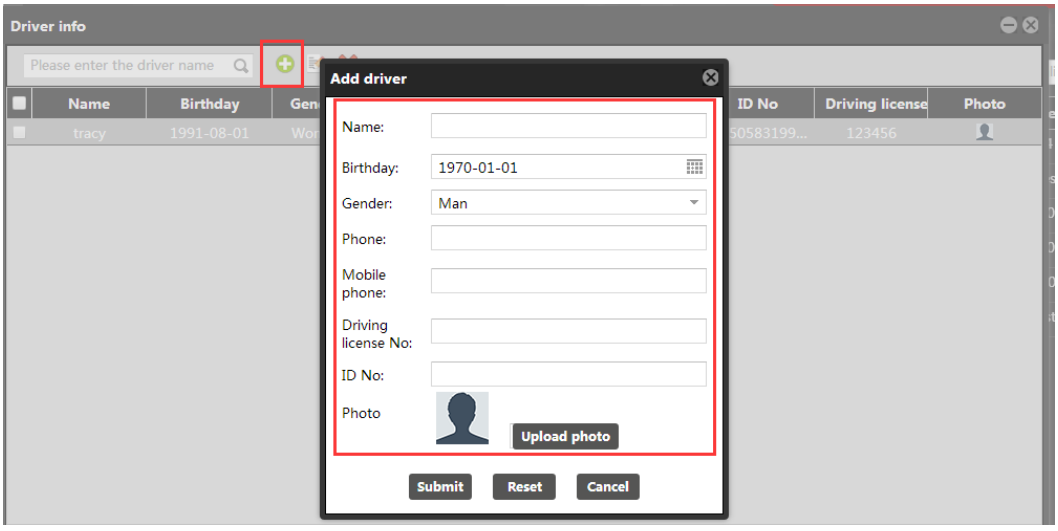
To collect statistics on drivers' driving records by driver I/O status report, the first is to add driver information and bind a driver to a RFID card.

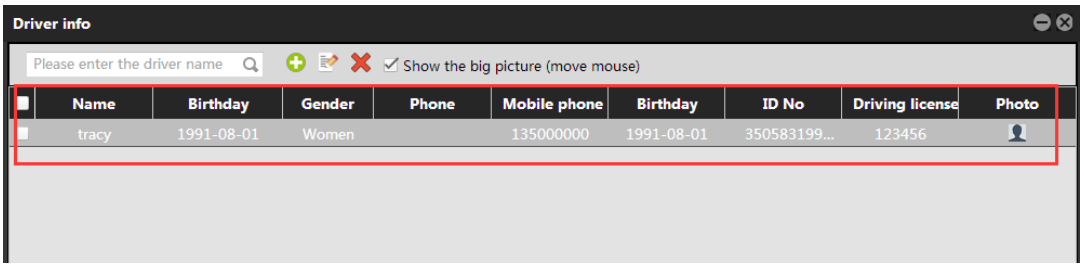
1. Add a driver.

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**.

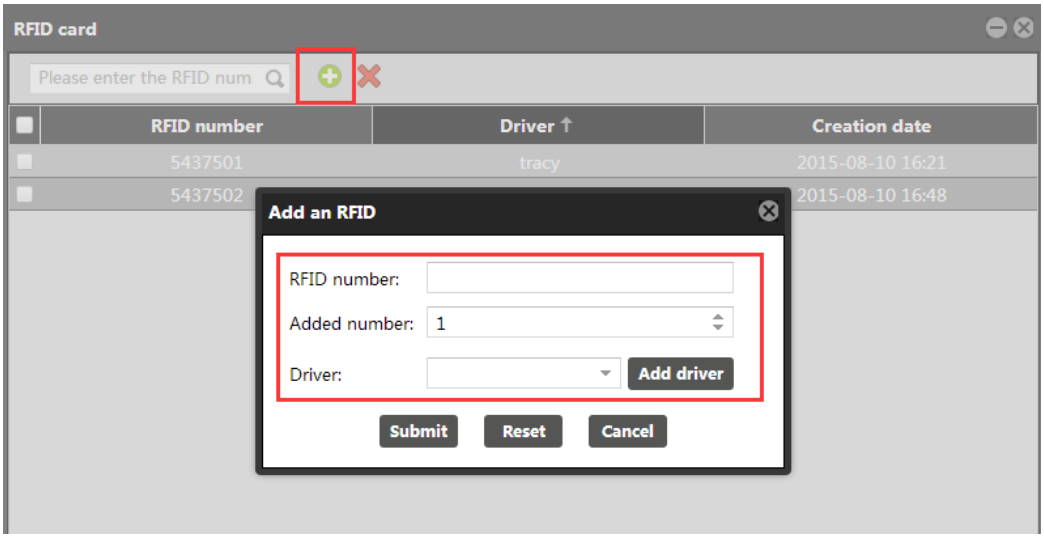


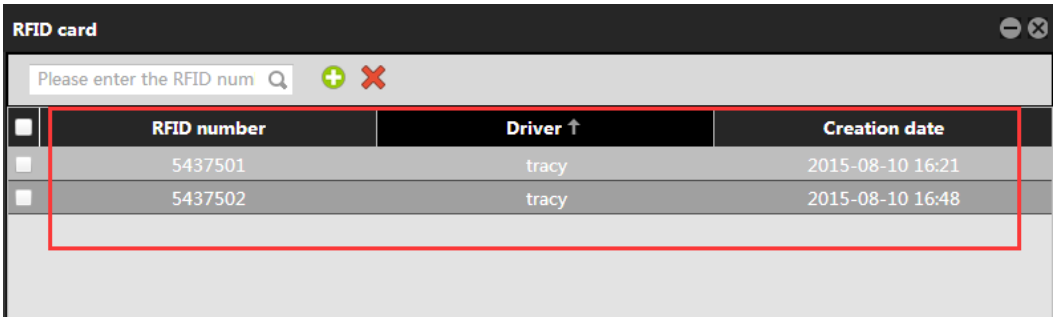


2. Add a RFID card.

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 RFID card number and bind a driver. These information will be included in a driver I/O status report.





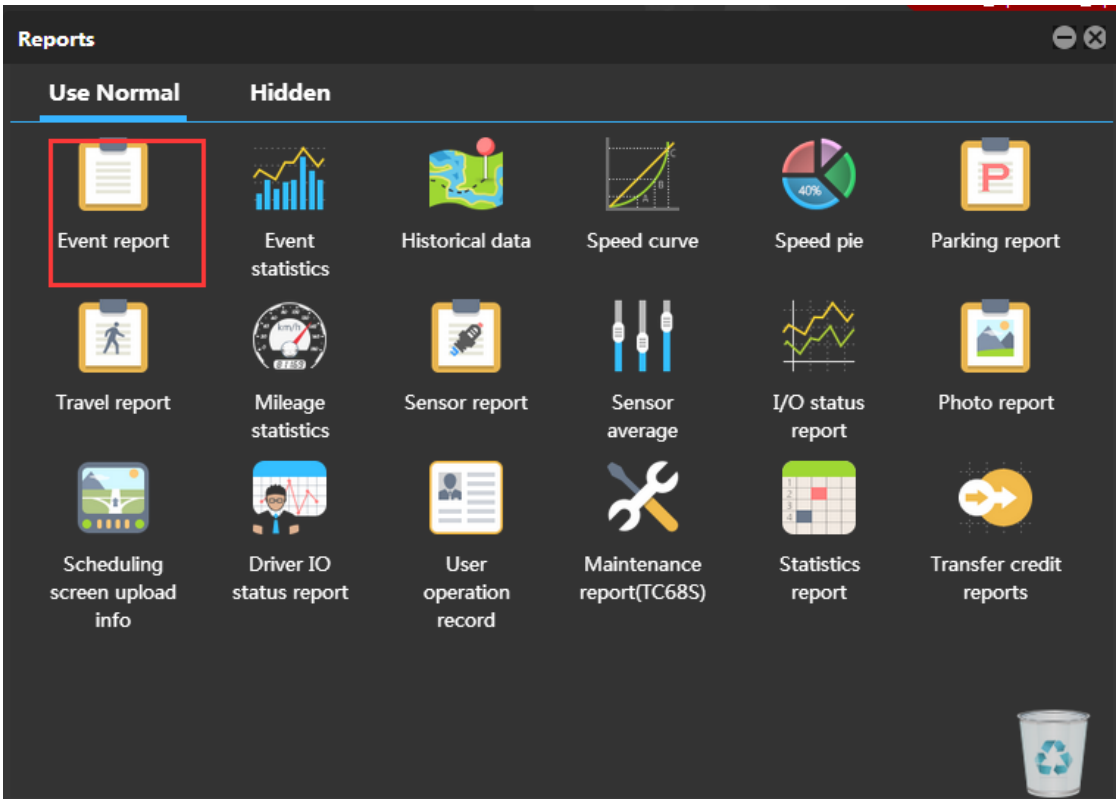
Note:

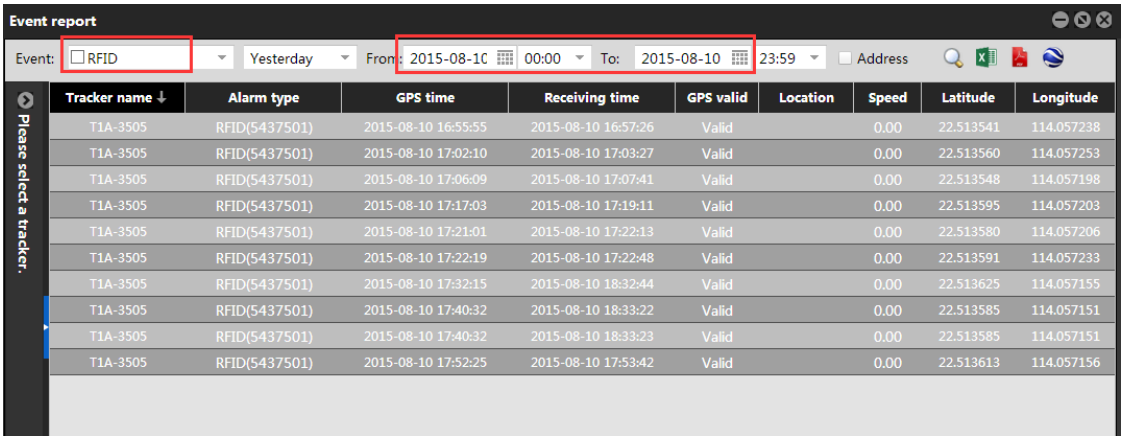
1. To manage RFID cards, driver information must be added first.
2. You can query a driver's driving mileage, parking duration, and time and location of starting the vehicle by driver I/O status report.

7 Querying Reports on MS03

7.1 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 RFID readers will be displayed, as shown in the following figure.

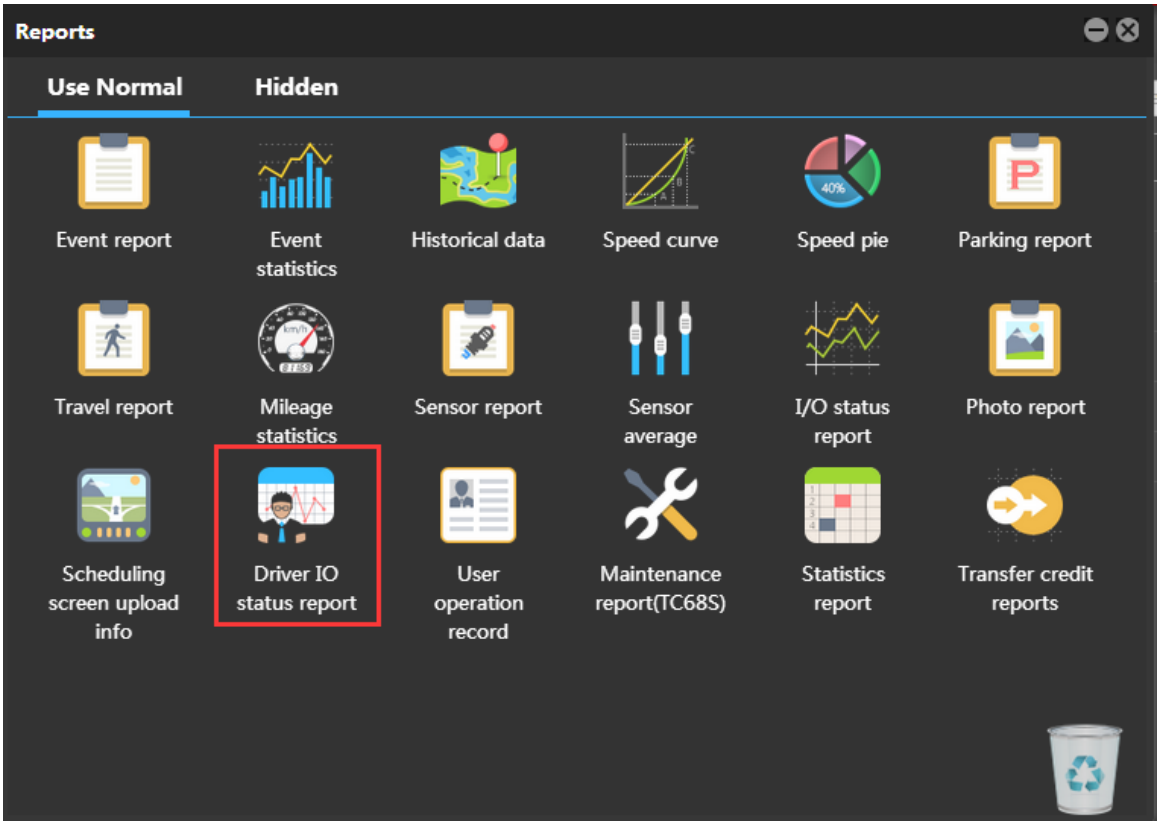


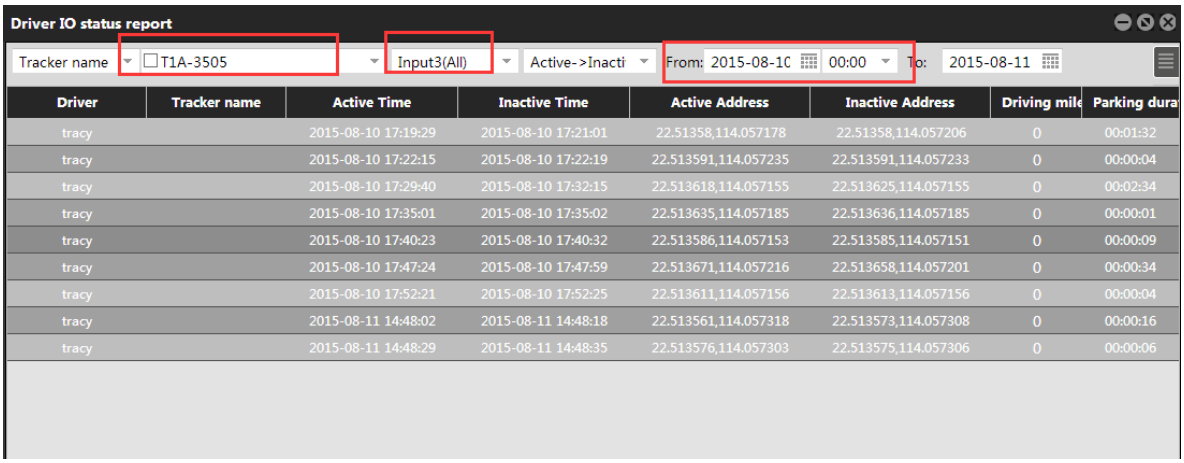


7.2 Driver I/O Status Report

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, input 3 is connected to the engine detection cable. You can obtain the driver's driving duration, mileage, and parking duration from this report.

8 Firmware Version

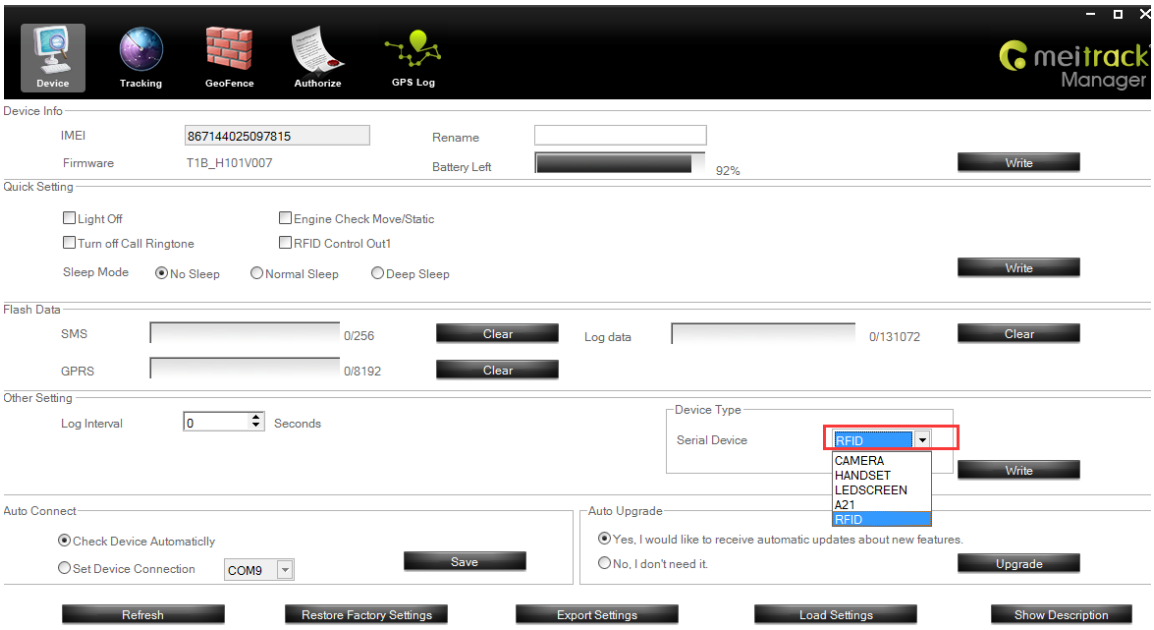
- T1 firmware supports standard version and RFID version. Standard version: The firmware can be compatible with the

handset, LED display, LCD display, and camera. RFID version: The firmware can be compatible with RFID (RFID reader + card) only.

T1_Y50V131–T1_Y50V157: The firmware supports RFID version.

T1_Y50401 or later: The firmware supports RFID version.

T1B_V001 or later: The firmware supports standard version and RFID version. You can select a peripheral by Meitrack Manager, as shown in the following figure.



- T333 firmware supports standard version and RFID version. Standard version: The firmware can be compatible with the handset, LED display, LCD display, and camera. RFID version: The firmware can be compatible with RFID (RFID reader + card) only.

  T333_Y50V005 or later: The firmware supports RFID version.

- The MVT600 firmware can be compatible with RFID (RFID reader + card) only.

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