MEITRACK FOTA Manager User Guide

Change History

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Contents

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2 System Introduction

FOTA Manager is a platform that is used to remotely update device configurations in batches and update a device firmware. This simplifies device configurations when you use a device for the first time and reduces the difficulty and workload of subsequent device maintenance.

The FOTA Manager platform supports the following features:

Manage a device group, save a configuration file, create a task, update device configurations in batches, update the device firmware, and query the status of a task.
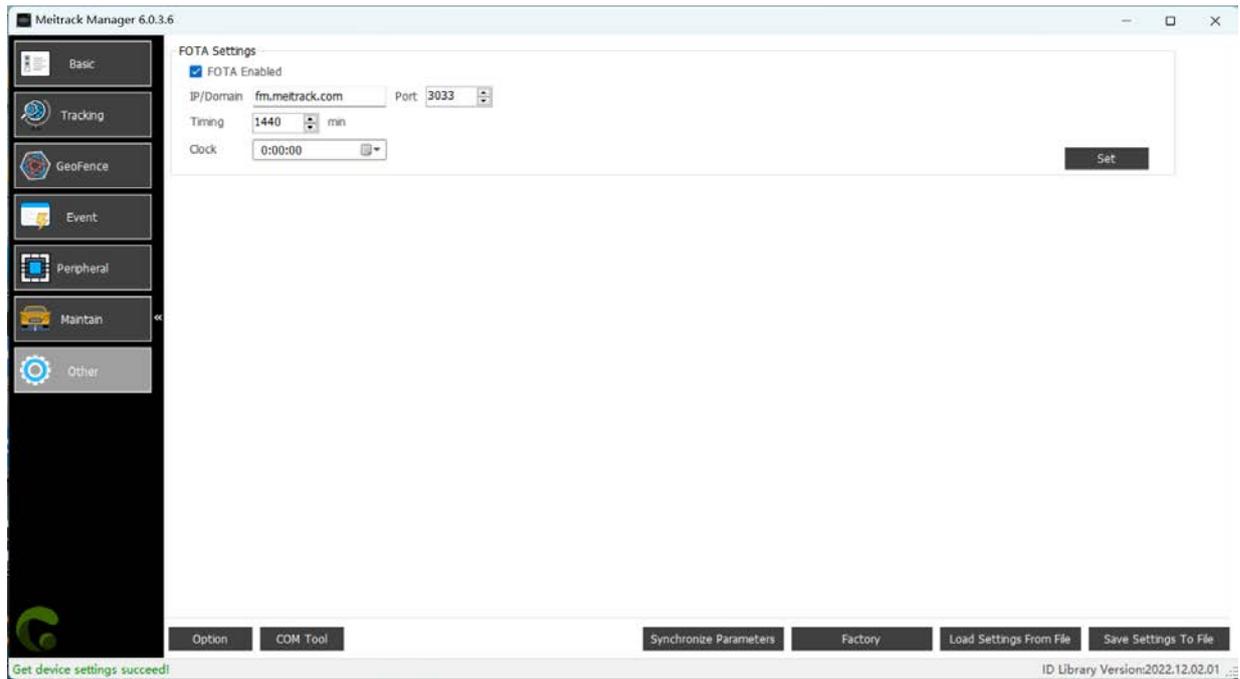
3 Getting Started

3.1 Configuring FOTA Parameters of the Device

You can follow the instructions in section 3.1.1 or 3.1.2 to configure device FOTA parameters.

3.1.1 Configuring FOTA Parameters of the Device by Using Software

You can use the Meitrack Manager software to configure FOTA parameters.

- The FOTA function is enabled by default. If you want to disable the function before the delivery of the device, contact us.
- Domain name of the FOTA server: fm.meitrack.com. Port: 3033.
- Timing: indicates the time interval of the communication between the device and the FOTA server. For the T711L, the default time interval is 1440 minutes, that is, 24 hours. For the TA255L, the default time interval is 120 hours.
- Clock: The default parameter value is **0:00:00**. **0:00:00** indicates that the alarm clock is turned off. If the parameter value is **1:00:00**, the device communicates with the FOTA Manager platform once a day at 1 o'clock.

3.1.2 Configuring FOTA Parameters of the Device by Using the CD4 Command

Configuring FOTA Parameters – CD4

SMS Sending	0000,CD4,*A,B,C,D,E,F,G*
SMS Reply	IMEI,CD4,OK
Description	**A**: indicates whether to enable the FOTA function. **0**: disables the FOTA function. **1**: enables the FOTA function.
	When the value of the **A** parameter is 1, the **B**, **C**, **D**, **E**, **F**, and **G** parameters are valid.
	B: indicates the IP address. The parameter value contains a maximum of 32 characters.
	C: indicates the port. The parameter value contains a maximum of five characters.
	D: indicates the scheduled connection time. The parameter value is measured in minutes. When the device is in sleep mode, the sleep time begins to be counted. When the sleep time reaches the specified scheduled connection time and the device is woken up, a connection between the device and the FOTA Manager platform is allowed. Value range: **0** to **65535**.
	E: indicates the hour. The 24-hour clock is used.
	F: indicates the minute. The 24-hour clock is used.
	G: indicates the second. The 24-hour clock is used.

	If the values of the **E**, **F**, and **G** parameters are **0**, the alarm clock is turned off. If the sleep time reaches the preset alarm clock time but the device is still in sleep mode, the device is woken up to connect to the FOTA Manager platform once. If you want to read the command settings, send **0000,CD4**.

3.2 Logging In to the FOTA Manager Platform

Visit https://fm.meitrack.com and enter the username and password to log in to the FOTA Manager platform.

Note:

1. If you are an MS03 platform user, log in to the FOTA Manager platform by using your MS03 account.

2. If you are not an MS03 platform user, contact us to apply for an FOTA Manager account.

3.3 Homepage of the FOTA Manager Platform

The homepage of the FOTA Manager platform displays **Company Dashboard**, **Shortcut**, **Tracker**, **Firmware**, and **Task batch status**.
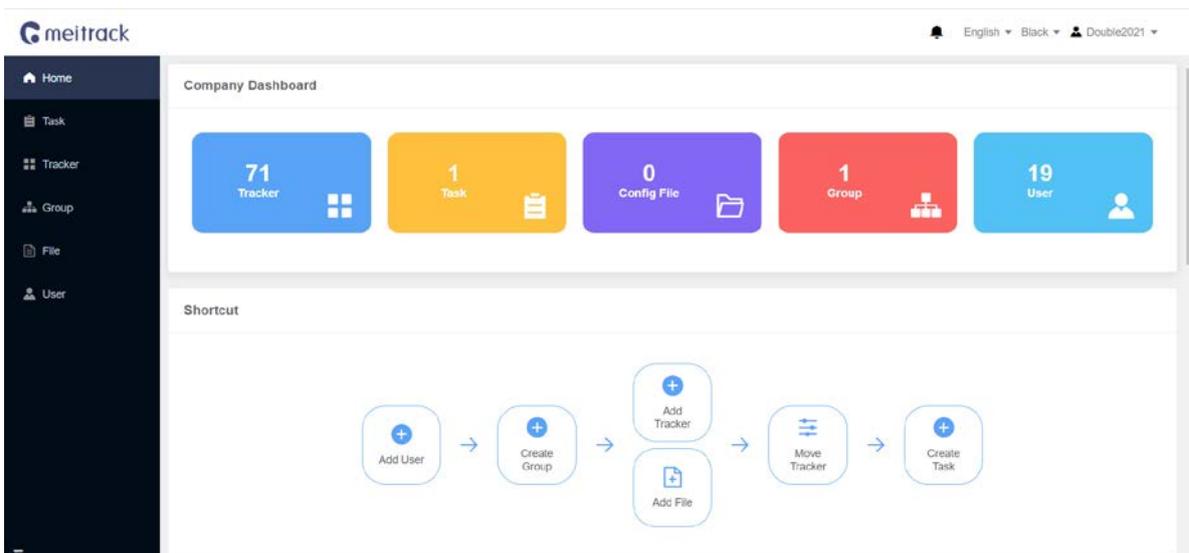
Company Dashboard and **Shortcut**
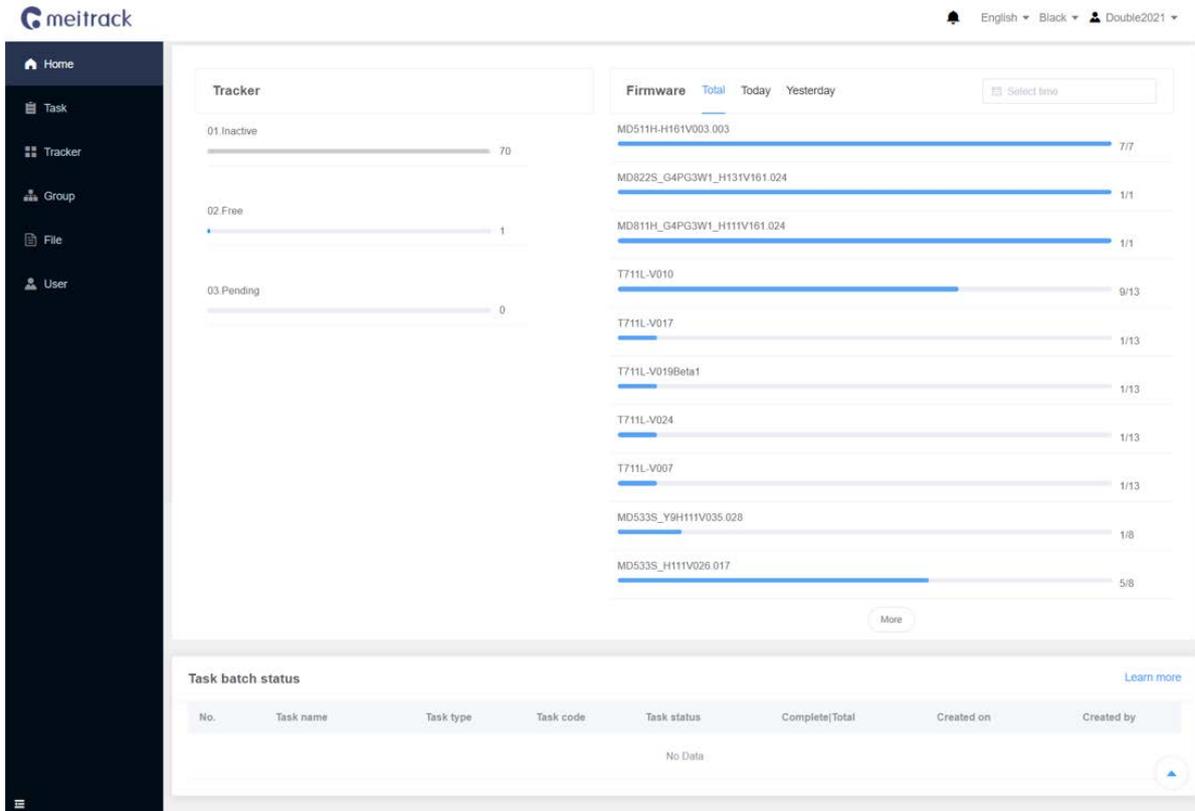
Tracker, **Firmware**, and **Task batch status**

- **Company Dashboard**: In this section, you can view the number of devices, tasks, configuration files, groups, and users within an account.
- **Shortcut**: In this section, you can view the procedure for creating a task. You can follow the procedure to create a task and then update the device firmware and configurations.
- **Tracker** and **Firmware**: In the two sections, you can view the type, quantity, and status of devices within an account.
- **Task batch status**: In this section, you can view the status of tasks. For example, a task is pending, fails to be executed, and executed.
- In the left-side navigation pane, functions are ordered by usage frequency. You can click a function to go to the corresponding page.

4 Device Management

After you log in to the FOTA Manager platform, you need to add devices first. Then you can use features on the FOTA Manager platform.

4.1 Logging In to the FOTA Manager Platform by Using an MS03 Account

If you log in to the FOTA Manager platform by using an MS03 account, devices within the MS03 account are automatically synchronized to the FOTA Manager platform.

4.2 Logging In to the FOTA Manager Platform by Using Other Method

1. Provide the IMEI numbers for us. Then we add devices in batches.
2. Contact us to apply for an account to log in to the FOTA Manager platform. After you log in to the FOTA Manager platform by

using the account, add a single device at a time and then repeat the operations to add multiple devices. The following section describes how to add a device at a time.

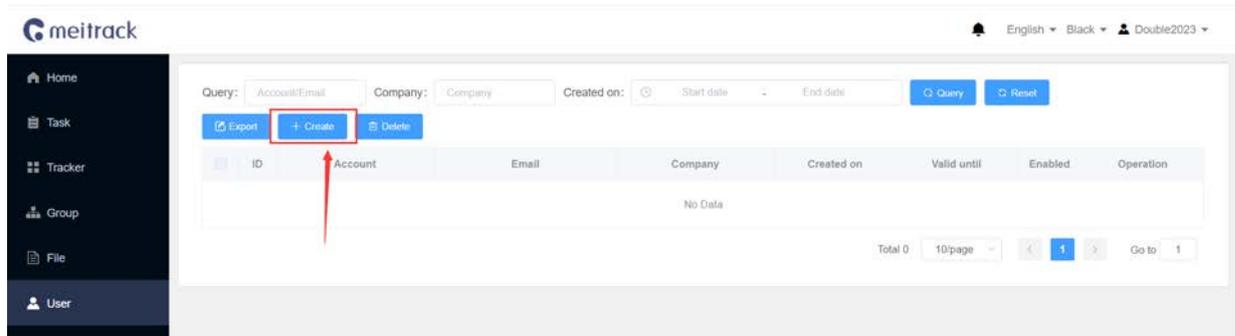## 4.2.1 Adding Company Information and Creating a Group

Before you add a device, you must add company information and create a group.
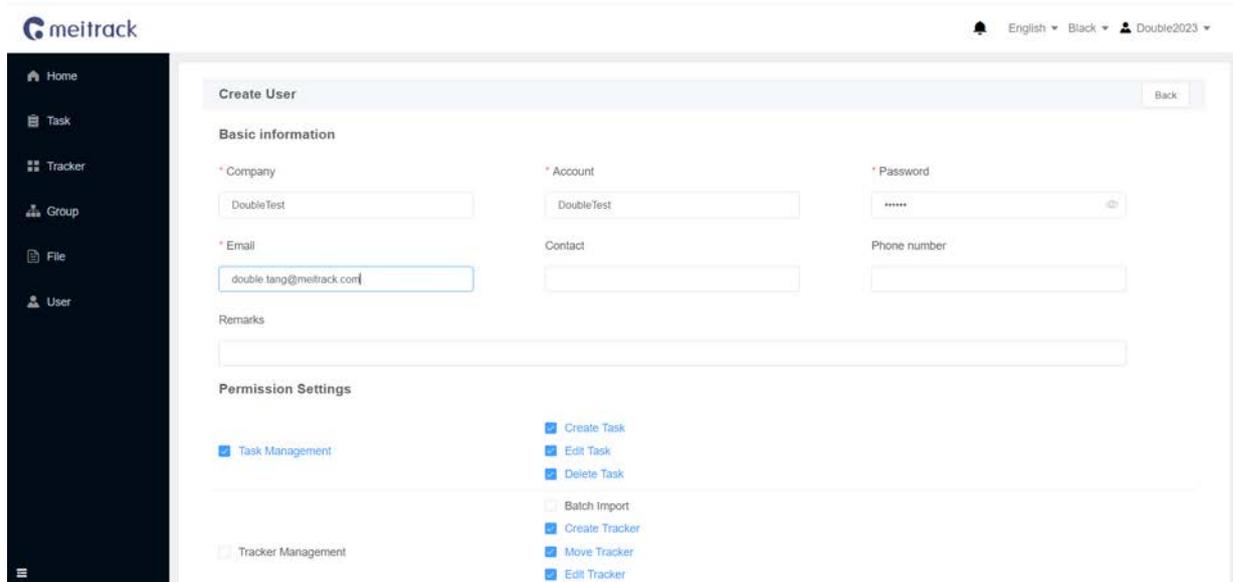
1. Add company information.

You need to create a user to add company information first. Choose **User** in the left-side navigation pane, or find the **Shortcut** section on the homepage and click **Add User**.
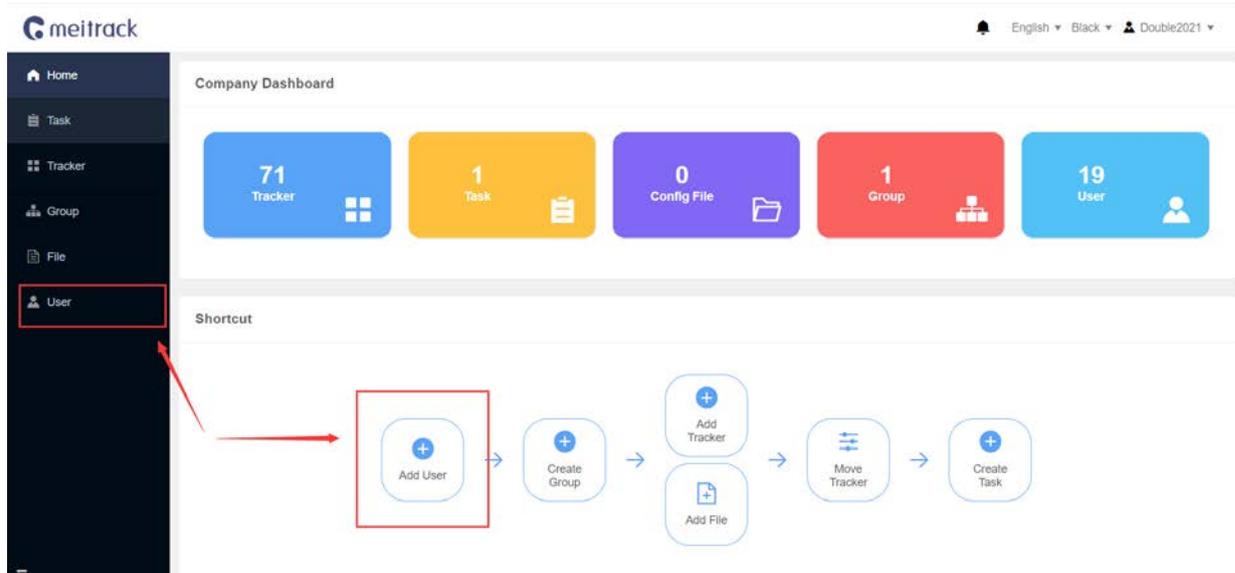
On the page that appears, click **Create**.

Set the user information and grant the required permissions, as shown in the following figure.

The user is successfully created.
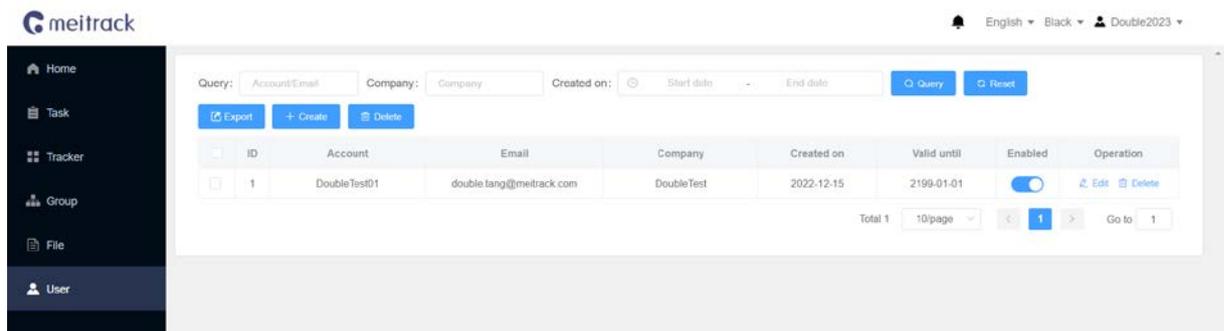
2. Create a group.

Choose **Group** in the left-side navigation pane, or find the **Shortcut** section on the homepage and click **Create Group**.
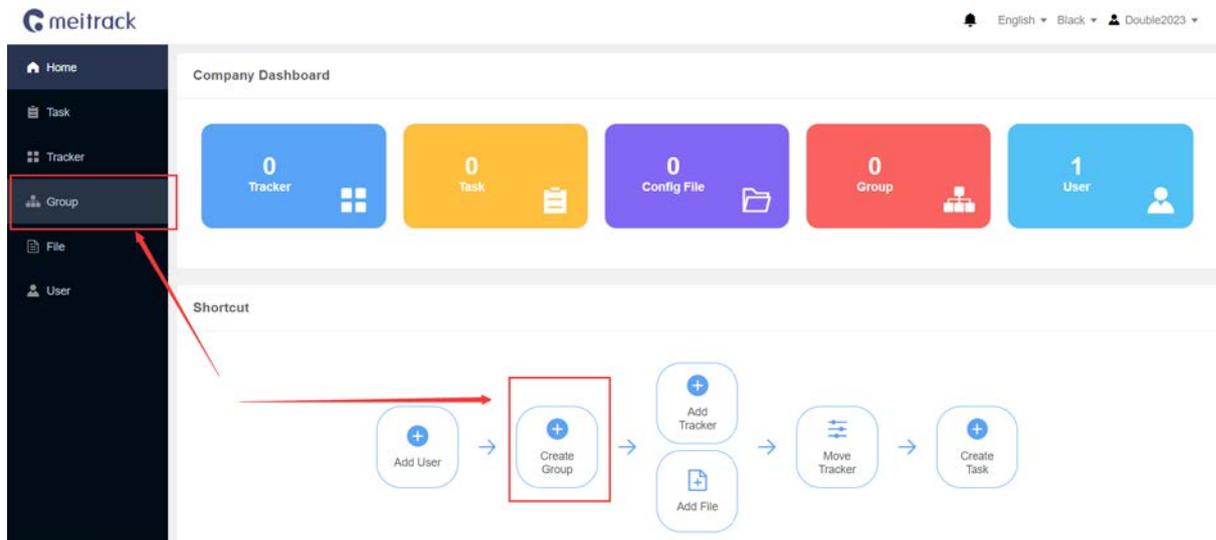
On the page that appears, click **Create**.
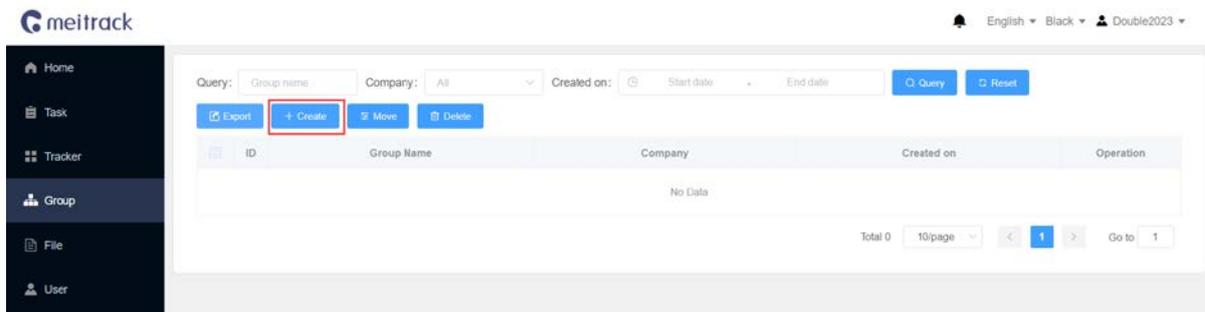
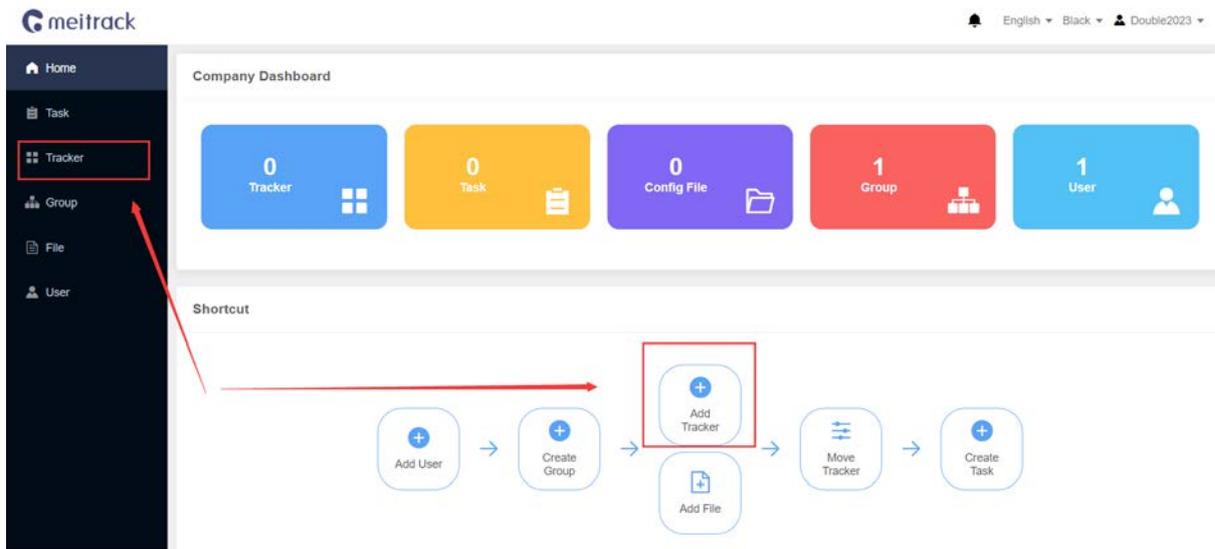Set **Company** and **Group Name**, and click **Submit**.
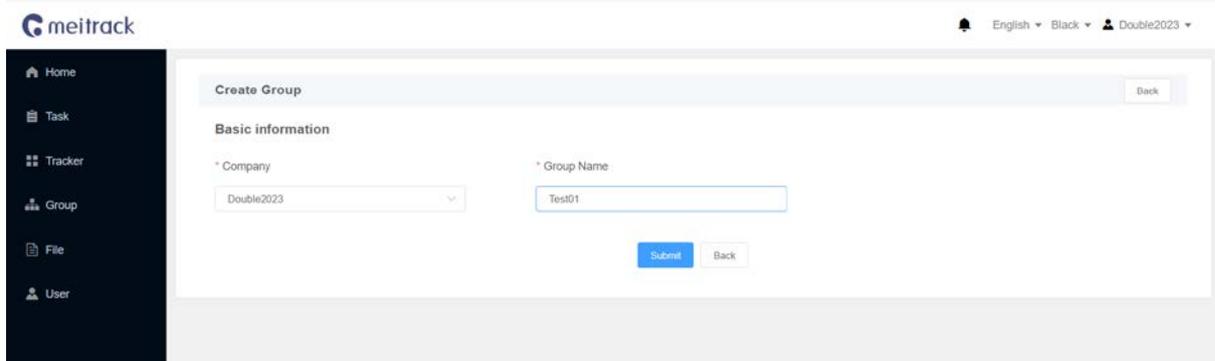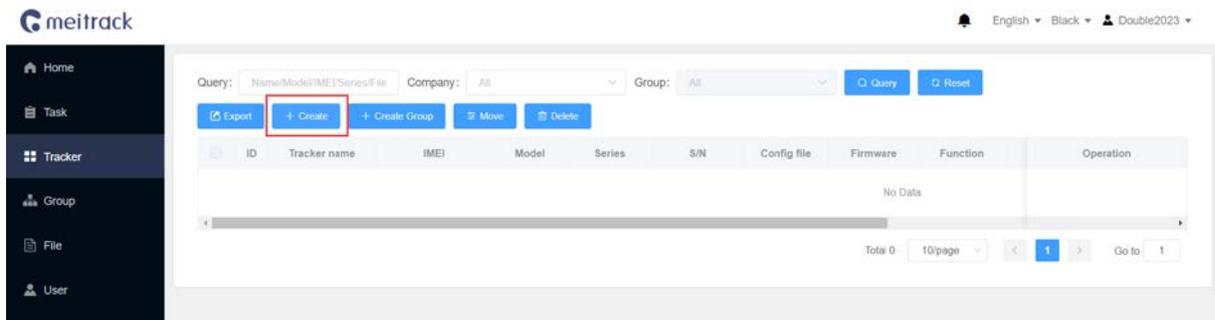

The group is successfully created.
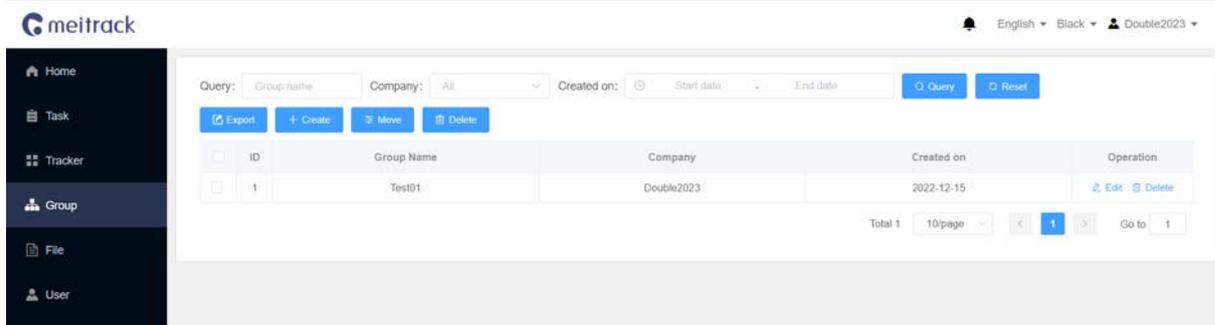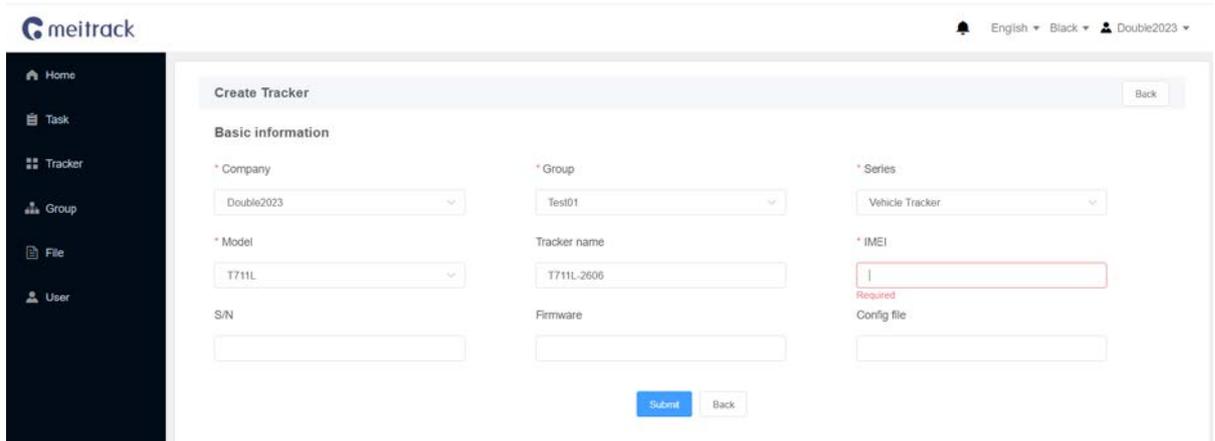

4.2.2 Adding a Device

Choose **Tracker** in the left-side navigation pane, or find the **Shortcut** section on the homepage and click **Add Tracker**.

On the page that appears, click **Create**.

Set the parameters, as shown in the following figure.


The device is successfully added.
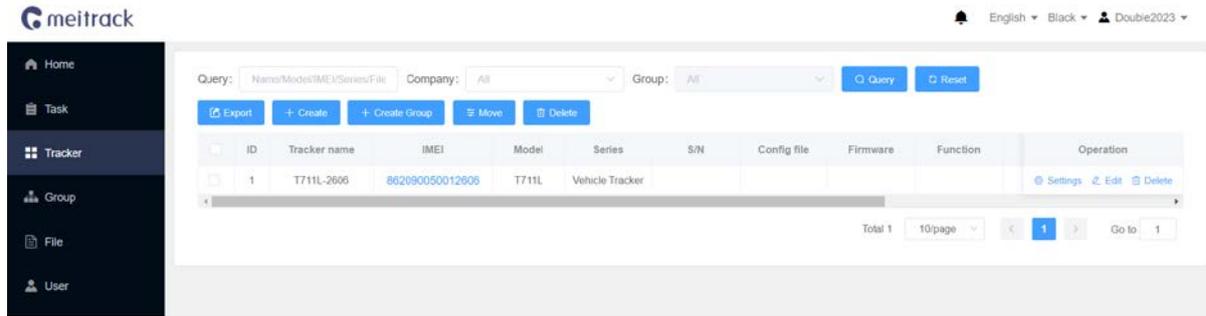
5 Device Configuration

You can choose **Tracker** in the left-side navigation pane to configure a single device and then save a configuration file. After you upload a configuration file, you can create a task and configure devices in batches.
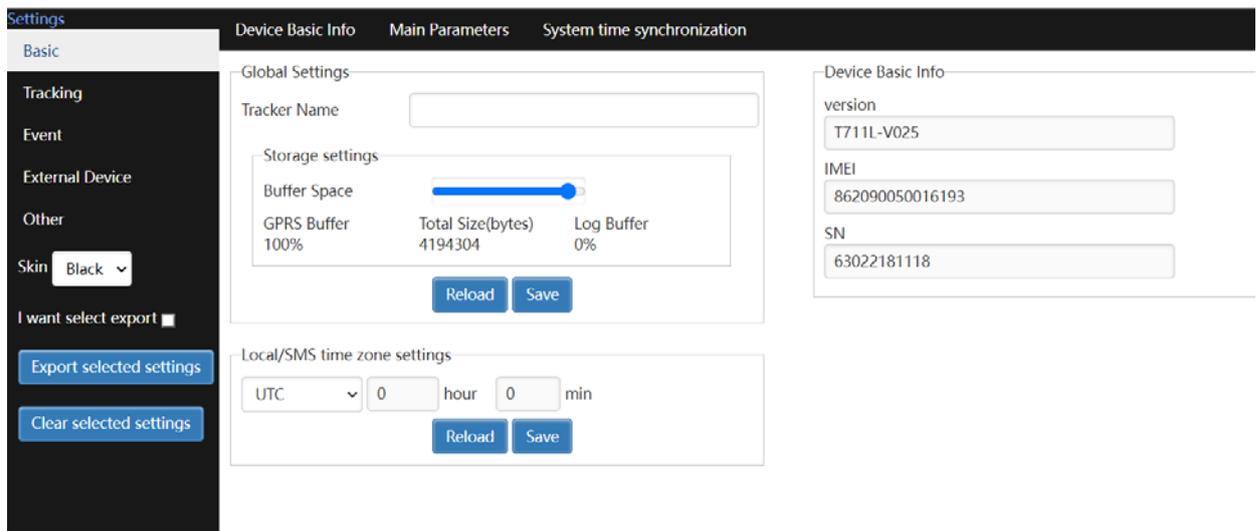
5.1 Configuring a Single Device

5.1.1 Configuring Basic Parameters

In the left-side navigation pane, choose **Tracker**. On the page that appears, find the **Operation** column and click **Settings**.
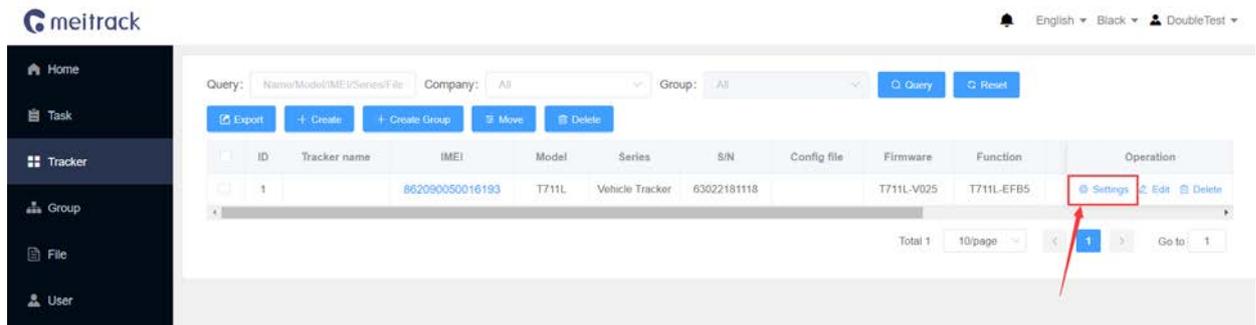

The device configuration page is displayed, as shown in the following figure. The following configuration items are the same as those of the Meitrack Manager platform.


Modify device configurations and click **Save** to save the configurations.

If you want to save a configuration file, select **I want select export**, modify device configurations, and select the corresponding parameter items, as shown in the following figure.
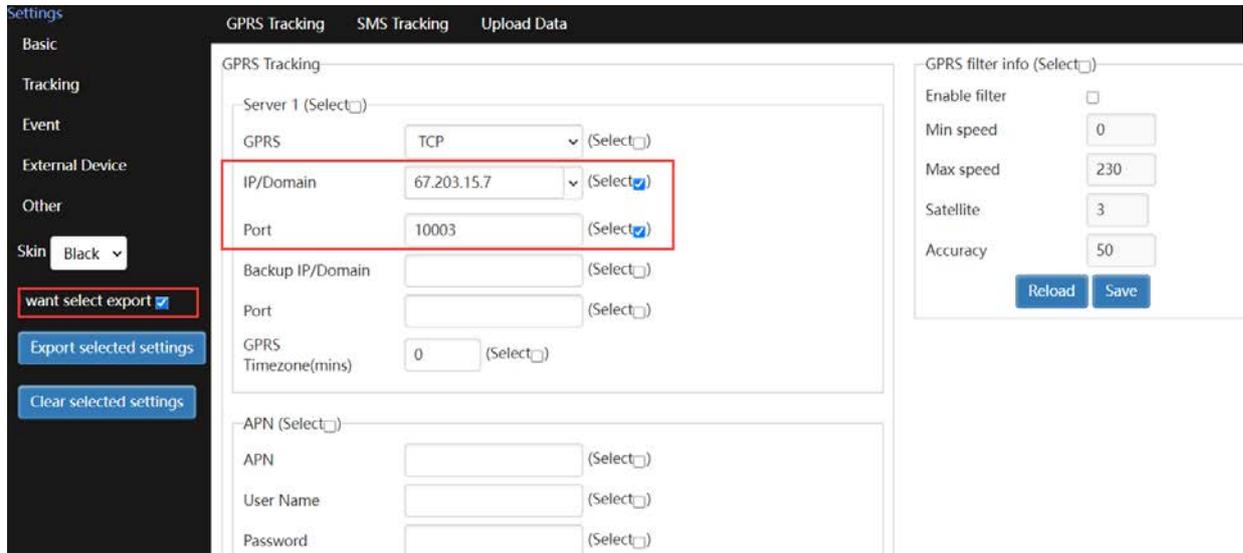
After device configurations are modified, click **Export selected settings** to save the configuration file. The configuration file is in the mop format.
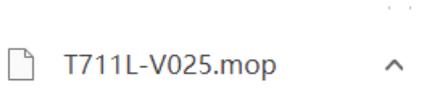

After the configuration file is uploaded, you can use the configuration file to configure devices in batches. For more information, see section 5.2 Configuring Devices in Batches.

5.1.2 Other parameter configurations

In the left-side navigation pane, choose **Tracker**. On the page that appears, find the **Operation** column and click **Edit** to configure device parameters.

In the left-side navigation pane, choose **Tracker**. On the page that appears, find the **Operation** column and click **Delete** to delete a device.
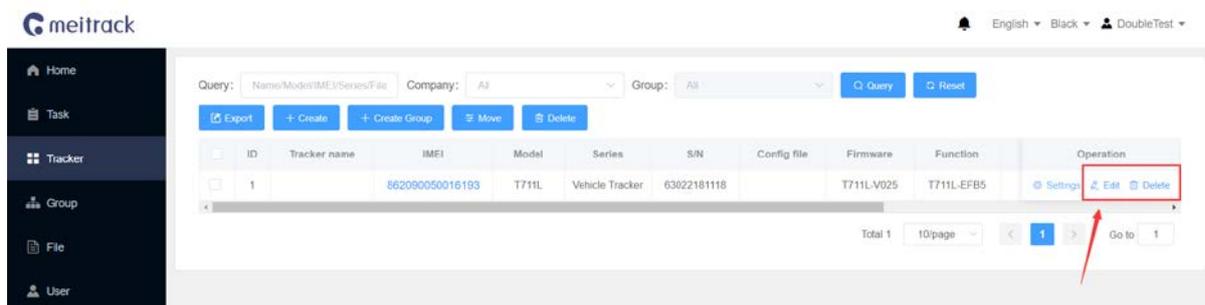

The FOTA parameter configuration page is displayed, as shown in the following figure. You can modify the basic device information and FOTA connection parameters. However, the FOTA Manager platform does not allow you to modify the basic device information in batches.
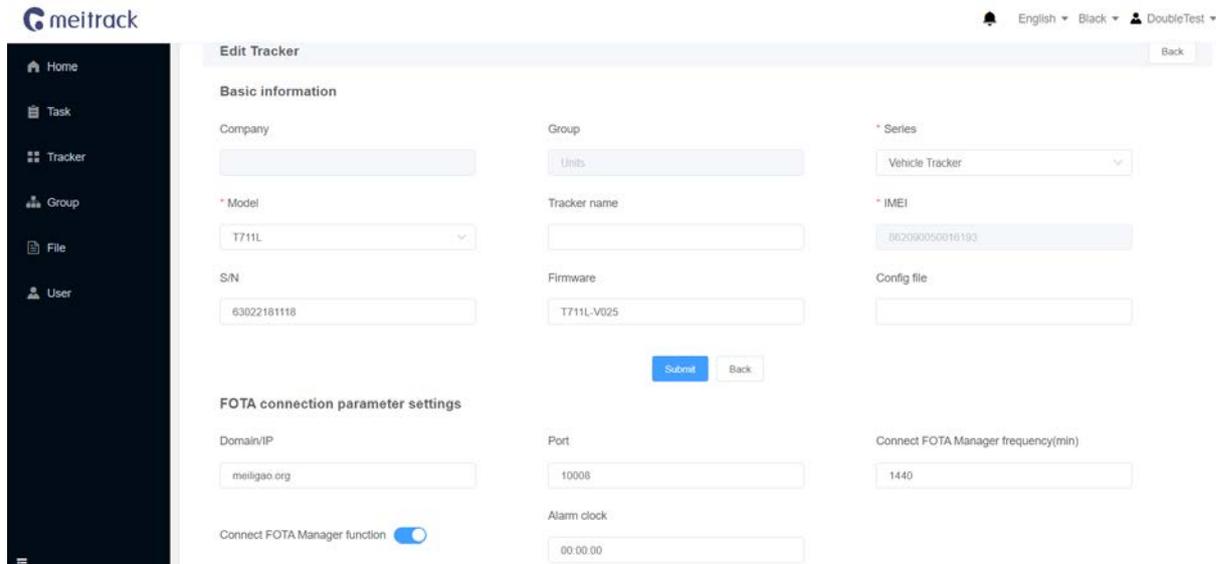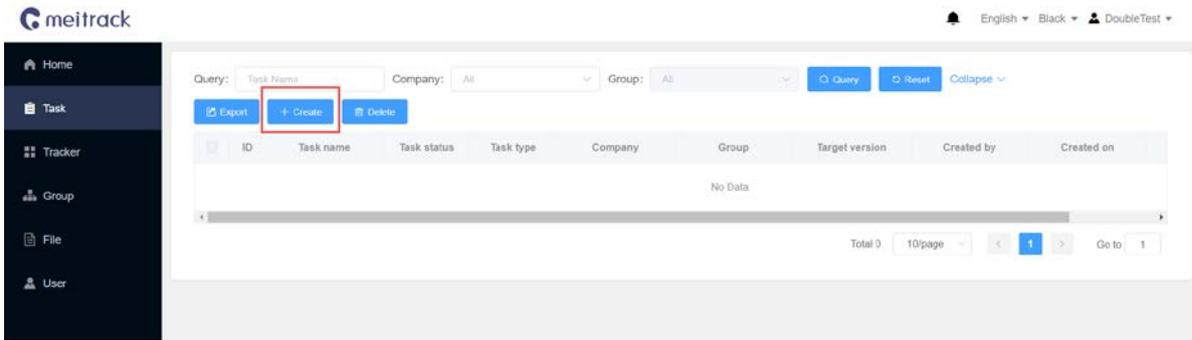
5.2 Configuring Devices in Batches

In the left-side navigation pane, choose **File**. On the page that appears, click **Upload** to upload a configuration file saved when you configure a single device.
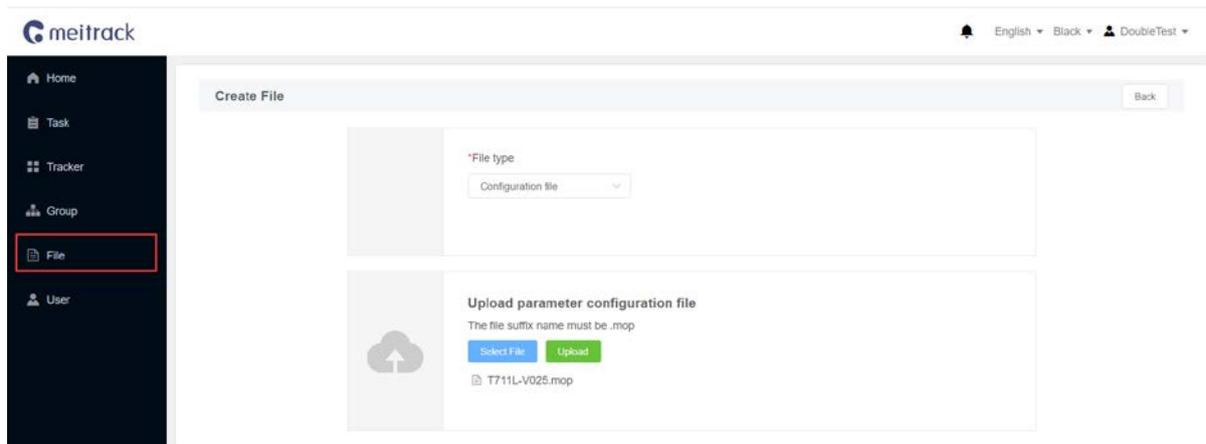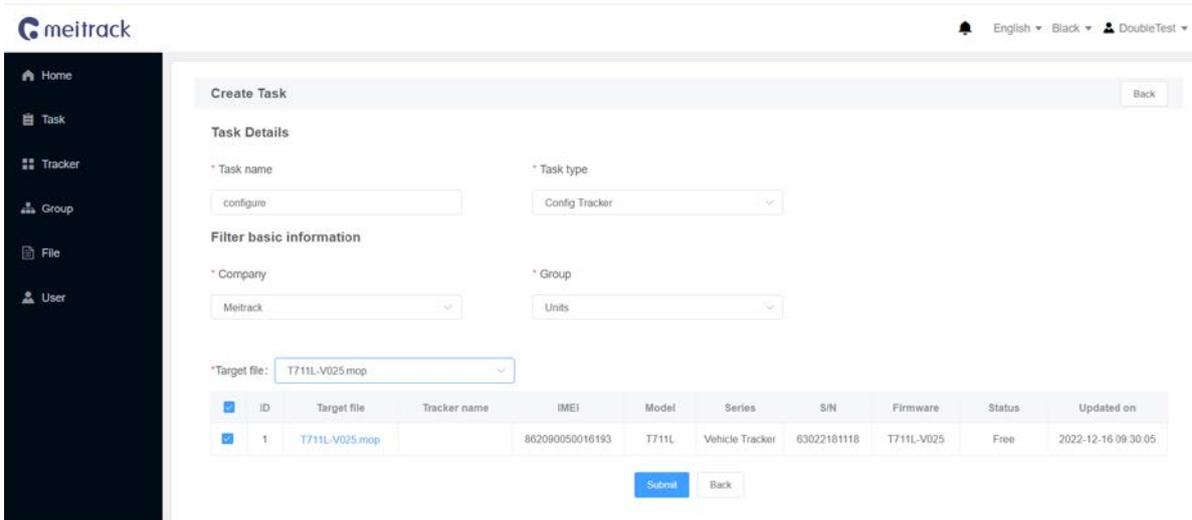

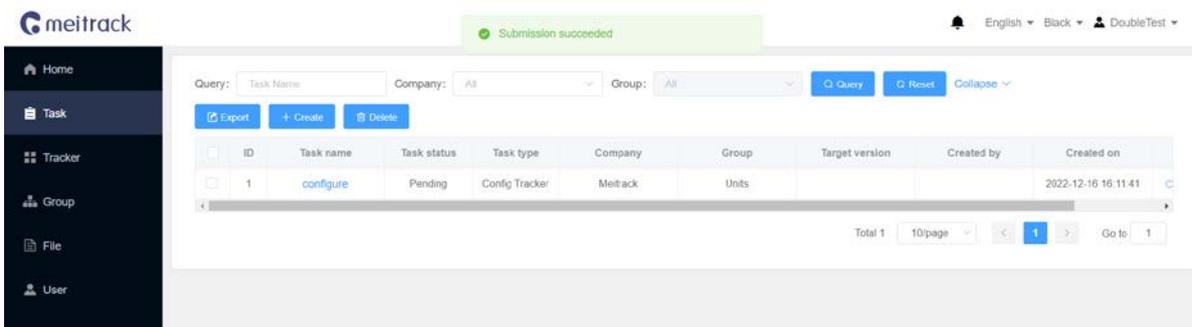The configuration file is successfully uploaded.

In the left-side navigation pane, choose **Task**. On the page that appears, click **Create** to create a task.

On the **Create Task** page, set **Task Details**, **Filter basic information**, and **Target file**, select a device whose parameters need to be configured, and click **Submit**.

The task is successfully created. Then the **Task status** column displays **Pending**.

When the device is connected to the FOTA Manager platform, the device configurations are updated. After the device configurations are successfully updated, the **Task status** column displays **Executed**.
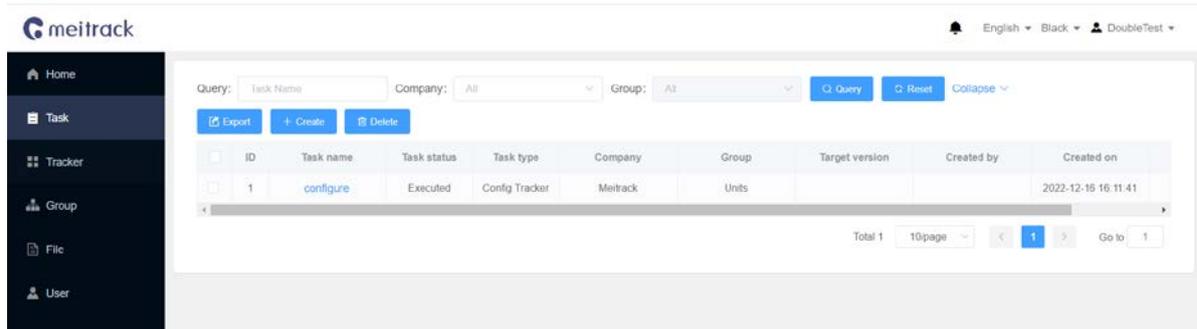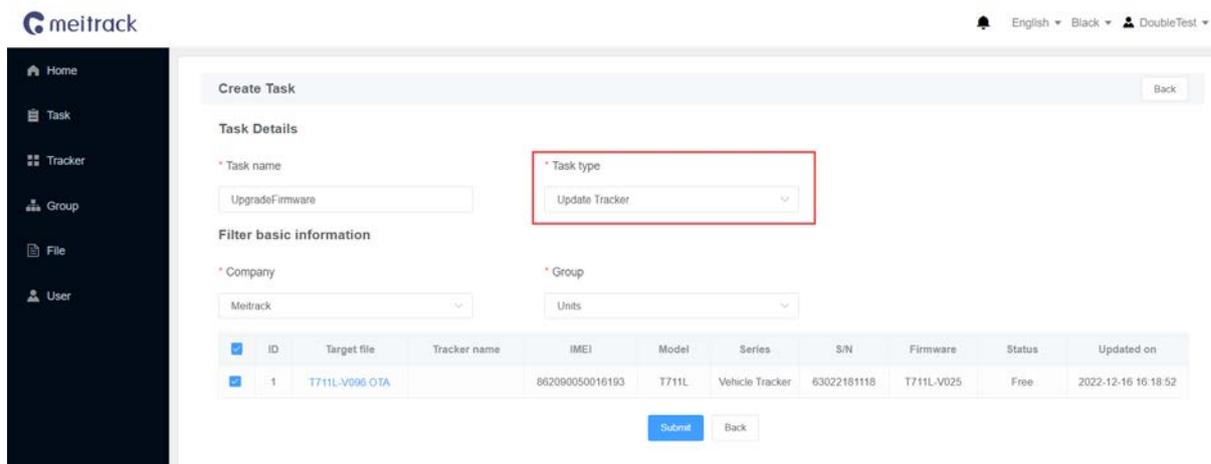
If the device configurations fail to be updated, the **Task status** column displays **Fail**. Check whether the device is online. If the device is always online and the connection between the device and the FOTA Manager platform times out, the task fails. In this case, contact us for troubleshooting.

6 Updating the Firmware

You can perform the following steps to update the device firmware in batches on the FOTA Manager platform:
On the **Create Task** page, set the **Task type** parameter to **Update Tracker**, select a group whose device firmware needs to be updated in batches, select devices and the firmware that you want to update, and click **Submit**.

After the task is successfully created, the device firmware is automatically updated when the devices are connected to the FOTA Manager platform next time.
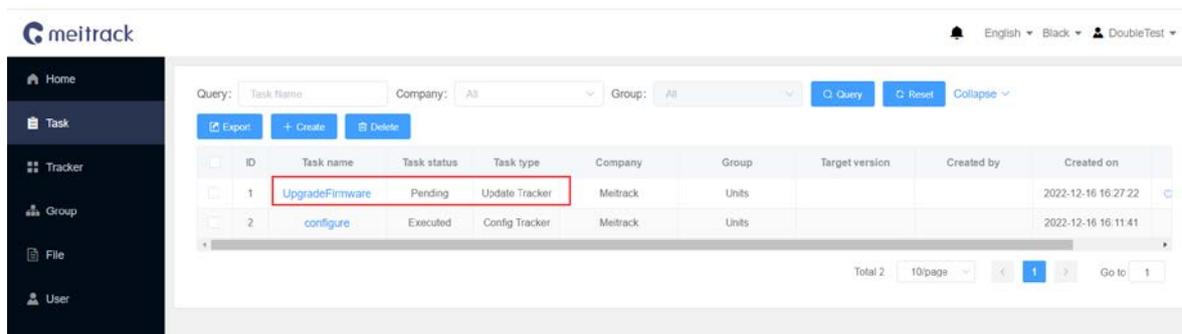
Note:

1. The FOTA Manager platform allows you to update only standard firmware. If you want to update customized firmware, contact us.

2. If you want to use the Create Task page of the FOTA Manager platform to configure a newly purchased device, make sure that the device where you install an SIM card is online. If the SIM card number is in the range of the VPN (private APN) of the operator, take note of the following items:

(1) Make sure that domain name fm.meitrack.com can be resolved from the operator's network.

(2) The operator supports the access of domain name fm.meitrack.com and port 3033. The domain name and port need to be provided for the operator.

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