

Omni Ble Tool

Operation Manual

V 2.0.36

directory

Omni Ble Tool	1
Operation Manual	1
V 2.0.36	1
Introduction	4
1.1、Preface	4
1.2、Description	4
1.3、Version	5
Installation	6
Registered	7
3.1、Account	9
3.2、Password	9
3.3、Verification code	9
3.4、Password modification	9
Login	11
Test main interface	14
5.1、QR code scanning	15
5.1.1、Network anomalies	16

5.1.2、 Bluetooth and GPS positioning not turned on	17
5.1.3、 Test information does not exist	19
5.1.4、 No scan to device	21
5.2、 Search device	23
5.2.1、 Step	24
5.2.2、 Description	24
5.3、 Modify IP and APN	25
5.4、 Bluetooth upgrade	33
5.4.1、 Step	33
5.4.2、 Description	34
5.5、 Get Logs	38
5.6、 Bluetooth on/off lock	39
5.7、 Bluetooth on/off	39
5.8、 Disconnect	40
5.9、 Query (connection)	40
5.10、 Other functions	40

Introduction

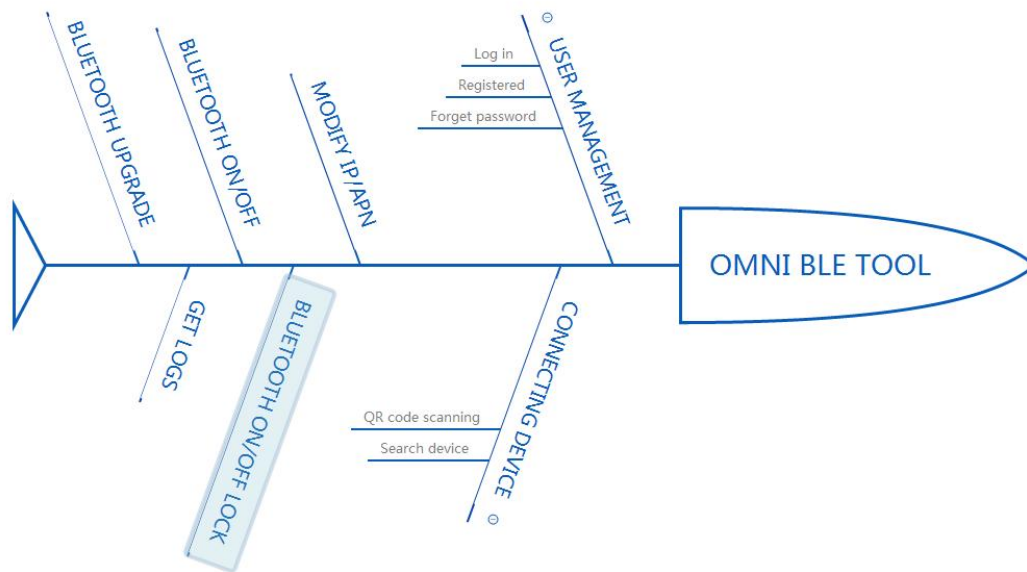
1.1、Preface

This document is the "Omni Ble Tool" independently developed by Omni Intelligent, and the APP operation instructions.

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1.2、Description

This document includes user login, registration, forgotten password and general management of the device, such as QR code scanning, search device, modify IP/APN, Bluetooth on/off lock, Bluetooth on/off, Bluetooth upgrade, log acquisition, etc. :



1.3、Version

Version		
Version	Description	Date
2.0.36	Initialization	2019-8-1

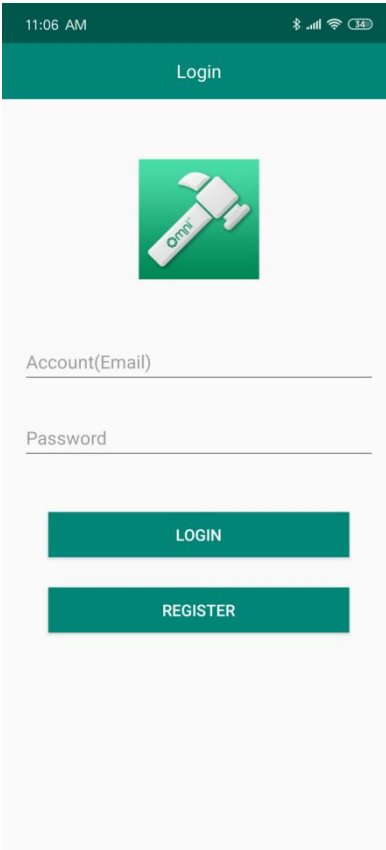
Installation



Scan this QR code to download and install (preferably in the browser), if you can not download the QR code, you can copy the link below to download and install in the browser.

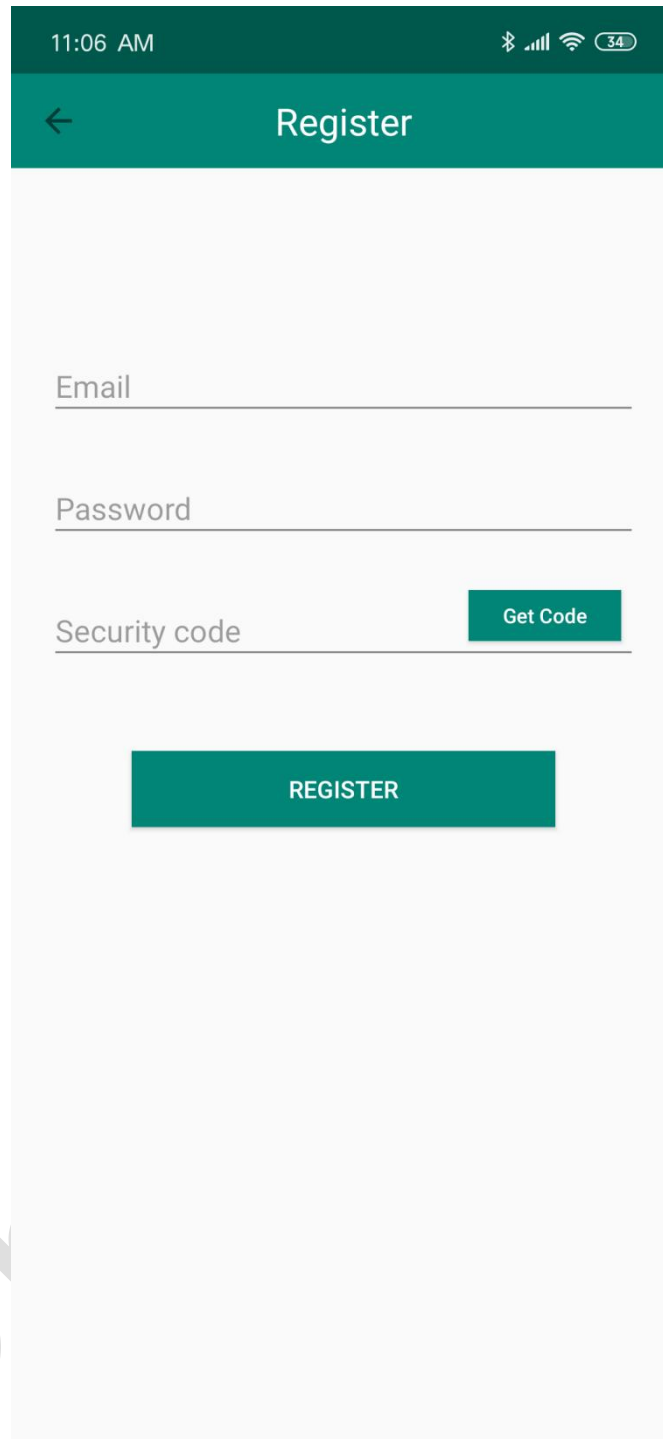
http://omni-android-apk.oss-cn-shenzhen.aliyuncs.com/omni_ble_tool_v2.0.36_190903_release_60.apk

Registered



The image shows a mobile application interface for the Omni Ble Tool. At the top, there is a status bar with the time 11:06 AM and icons for Bluetooth, signal strength, and battery. Below this is a dark green header with the word "Login" in white. The main content area is light gray and contains a green square icon with a white Omni Ble Tool. Below the icon are two input fields: "Account(Email)" and "Password". At the bottom of the form are two dark green buttons: "LOGIN" and "REGISTER".

Click Register to enter registration details



The image shows a mobile application interface for registration. At the top, a dark green header bar contains a back arrow on the left and the word "Register" in the center. Below the header, the main content area is light gray. It features three input fields: "Email", "Password", and "Security code", each with a horizontal line for text entry. To the right of the "Security code" field is a green button labeled "Get Code". Below these fields is a large green button labeled "REGISTER". The status bar at the very top shows the time "11:06 AM", signal strength, Wi-Fi, and battery level at "34".

11:06 AM

← Register

Email

Password

Security code

Get Code

REGISTER

3.1、Account

Account can choose mobile phone number or email registration, you need to enter the correct and valid information, the successful registration of the account is a login account.

3.2、Password

Set the login password to avoid setting a simple password to protect user information.

3.3、Verification code

After clicking "Get Code", the user will receive a verification code information, which is generally 6 random numbers.

If you sign up with your cell phone number, you'll get a text message from the verification code. If it is registered in a mailbox, it will receive a verification code e-mail

After entering the verification code correctly, clicking on registration will jump to the login interface.

3.4、Password modification


Click the Forgot Password button on the login interface to enter the Change Password interface.

You must enter the correct verification code before you can set the password. After setting the password, click Confirm

1:48 PM

Bluetooth, Signal, Wi-Fi, 42%

Login



Account(Email)
729258690@qq.com

Password

LOGIN

REGISTER

Forget password

1:50 PM

Bluetooth, Signal, Wi-Fi, 42%

← Forget password

Phone/Email

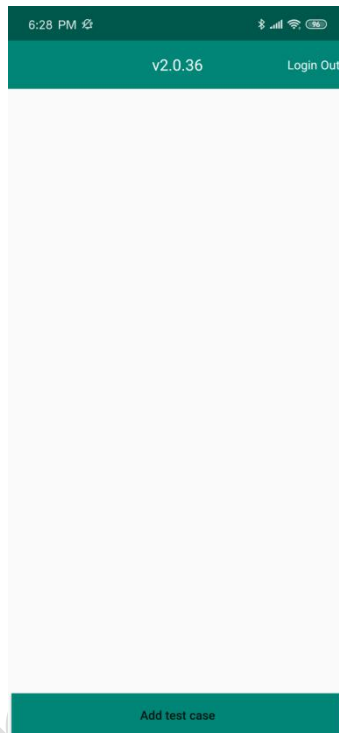
Security code

Get Code

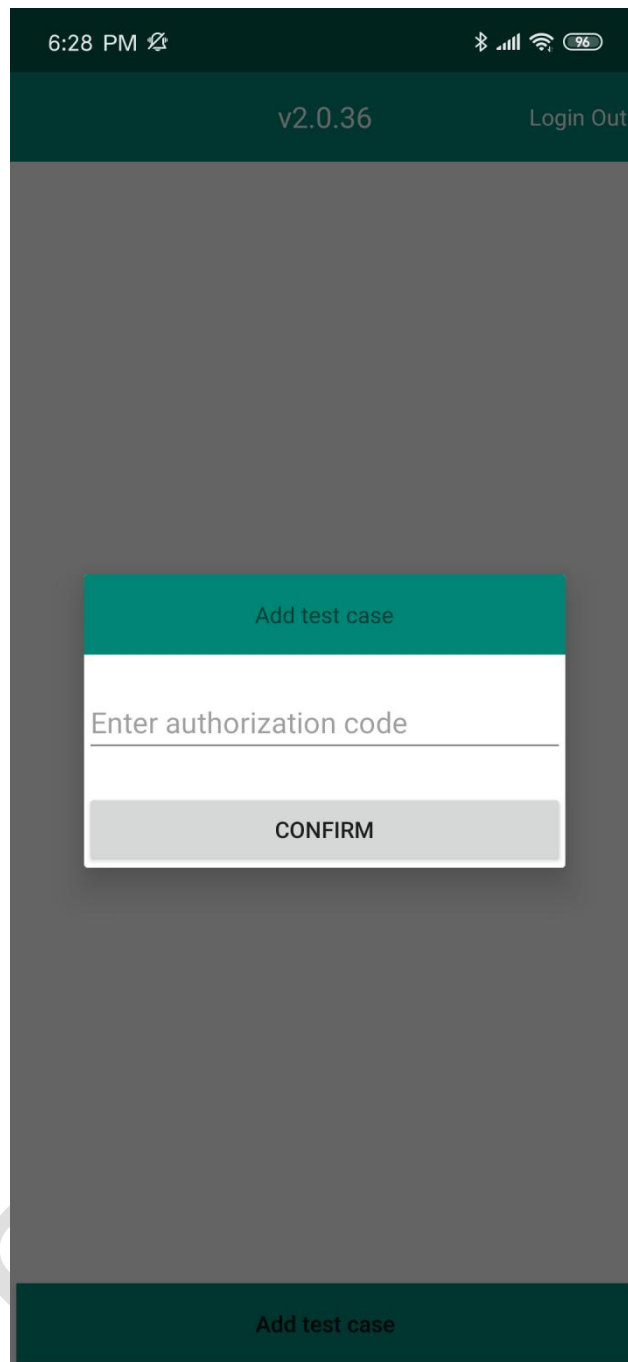
CONFIRM

Login

After entering the correct account password and successfully logging in, you need to manually add test cases to test, as shown in the figure:

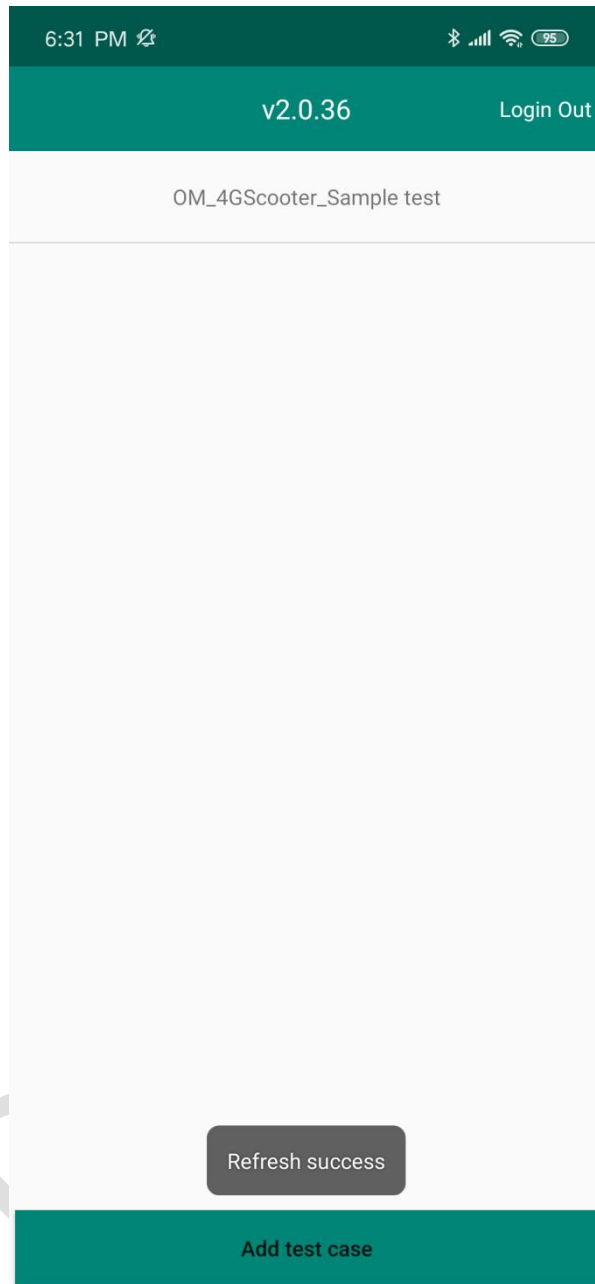


Click to add a test case



Enter the corresponding authorization code to add, the authorization code can ask the business

personnel, after the success is as follows:



For example, just enter "6G801" in the authorization code column and add the

"OM_4GScooter_Sample test" test case. Each test code corresponds to different test cases.

Click on the test case you need to test to enter the test main interface.

Test main interface

Different test cases correspond to different products, including scooter test, bicycle lock test, etc.

The actual operation steps of these tests are the same. The following operation instructions take

the scooter test as an example, as shown in the figure:

4:27 PM

< Scooter test

select mac=Not scanned,Disconnect
QR file:Downloaded
Power

Mac Address: _____

QR_Content: _____

QR_Code: _____

SEARCHR
(CONNECT)

Scan QR_Code

Scan device

5.1.、 QR code scanning

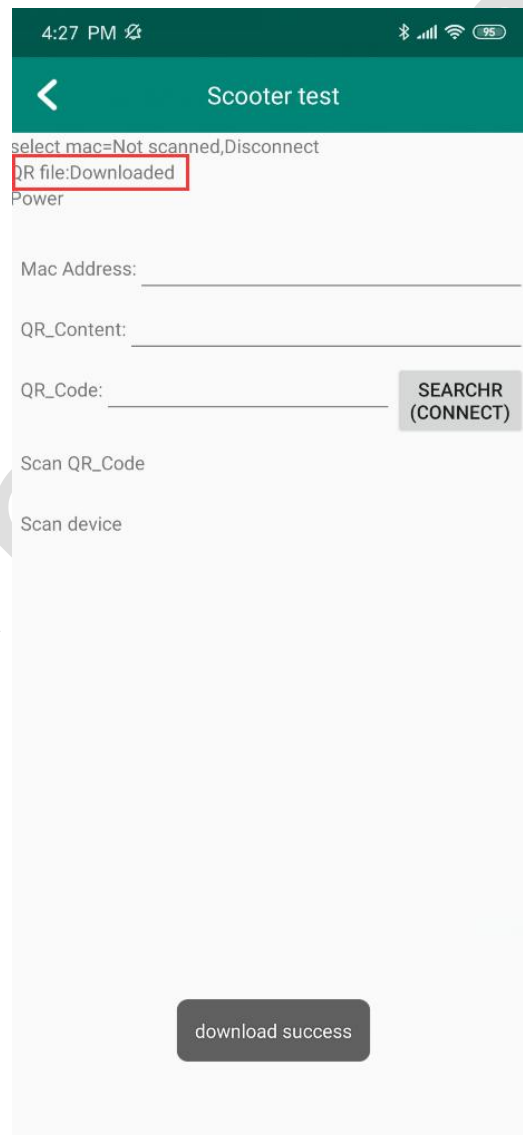
First, we click on the QR code to scan the QR code on the device to get the information of the device. After successful scanning, the user will be prompted to “scan to device”, “device connection, control device”, and the device status is not connected. Become connected and get the firmware information of the device, then the user can perform the next test operation on the device.

4:29 PM	4:30 PM
<p>Scooter test</p> <p>select mac=DB:EA:08:85:B8:98,Connect QR file:Downloaded Power: 80% Firmware info ICCID:89860437011871964795 PORT:9686 IP:www.omnibike.net IMEI:867584031208387 IPMODE:1 VERSION:8A_V2.1.3T APN:CMNET POWER:414, APNMODE:0, MODEL:SIM7600E , GPS:OK, ERRCODE:0, VCONT:1, SCOPOWER:80, VDATA:Aug 15 2019, GPSSATE:0,</p> <p>Mac Address: <u>DB:EA:08:85:B8:98</u></p> <p>QR_Content: <u>66755004745</u></p> <p>QR_Code: <u>66755004745</u> SEARCHR (CONNECT)</p> <p>Scan QR_Code</p> <p>Scan device</p> <p>Modify IP</p> <p>Modify APN</p> <p>BLE Unlock</p> <p>BLE Lock</p> <p>Enter Transport Mode</p> <p>Quit Transport Mode</p>	<p>Scooter test</p> <p>select mac=DB:EA:08:85:B8:98,Connect QR file:Downloaded Power: 80% Firmware info ICCID:89860437011871964795 PORT:9686 IP:www.omnibike.net IMEI:867584031208387 IPMODE:1 VERSION:8A_V2.1.3T APN:CMNET POWER:414, APNMODE:0, MODEL:SIM7600E , GPS:OK, ERRCODE:0, VCONT:1, SCOPOWER:80, VDATA:Aug 15 2019, GPSSATE:0,</p> <p>Mac Address: <u>DB:EA:08:85:B8:98</u></p> <p>QR_Content: <u>66755004745</u></p> <p>QR_Code: <u>66755004745</u> SEARCHR (CONNECT)</p> <p>Quit Transport Mode</p> <p>Get Firmware Information</p> <p>Bluetooth Upgrade</p> <p>Get Logs</p> <p>Pop up battery</p> <p>Light on</p> <p>Light off</p> <p>Disconnect</p>

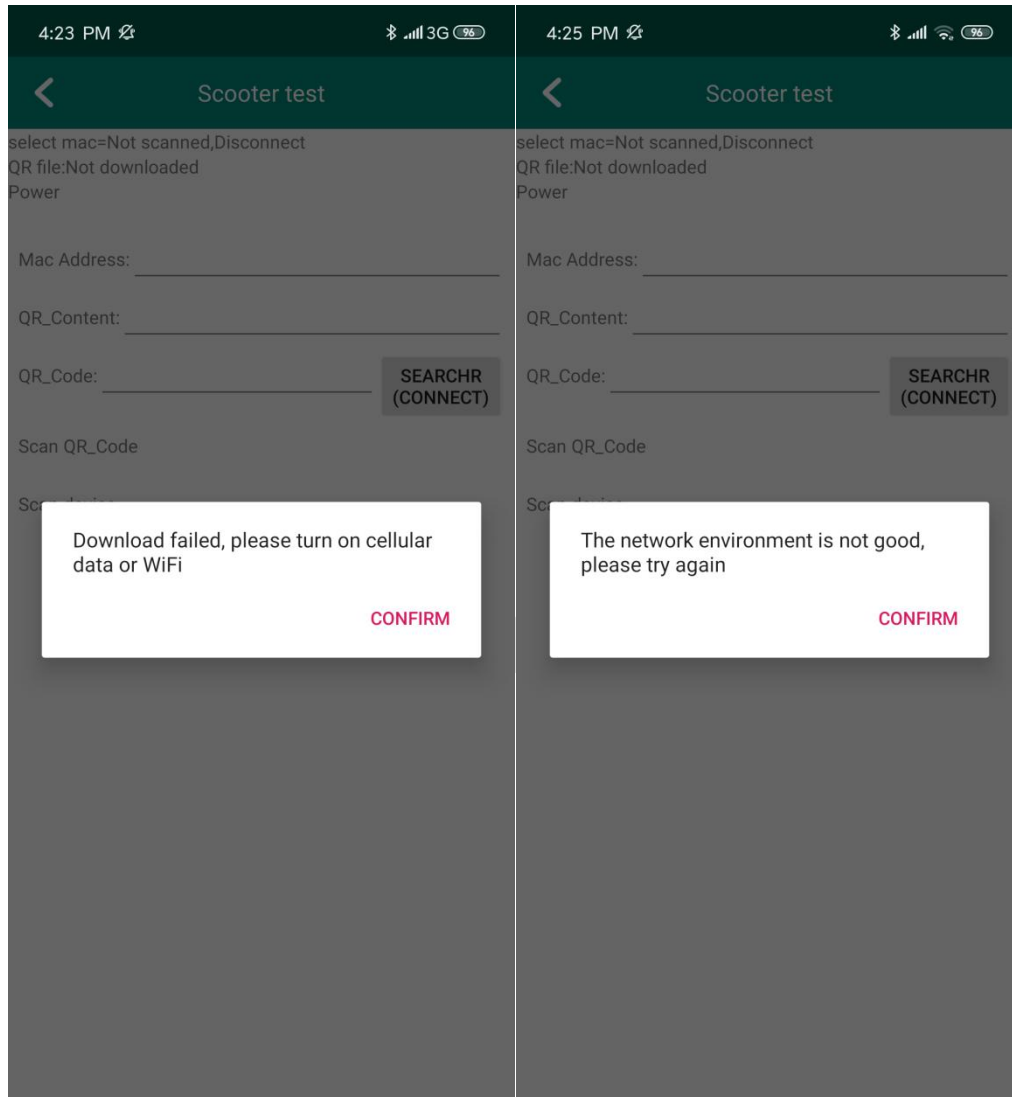
Of course, there will always be some devices, software or other problems that make it impossible to connect to the device. The following describes several connection failures.

5.1.1、 Network anomalies

After we click into the scooter test, the APP will automatically download the test information (IMEI, NUNBER, MAC). The download speed is very fast when the network speed is good, and the download is successful almost at the same time, as shown in the figure:



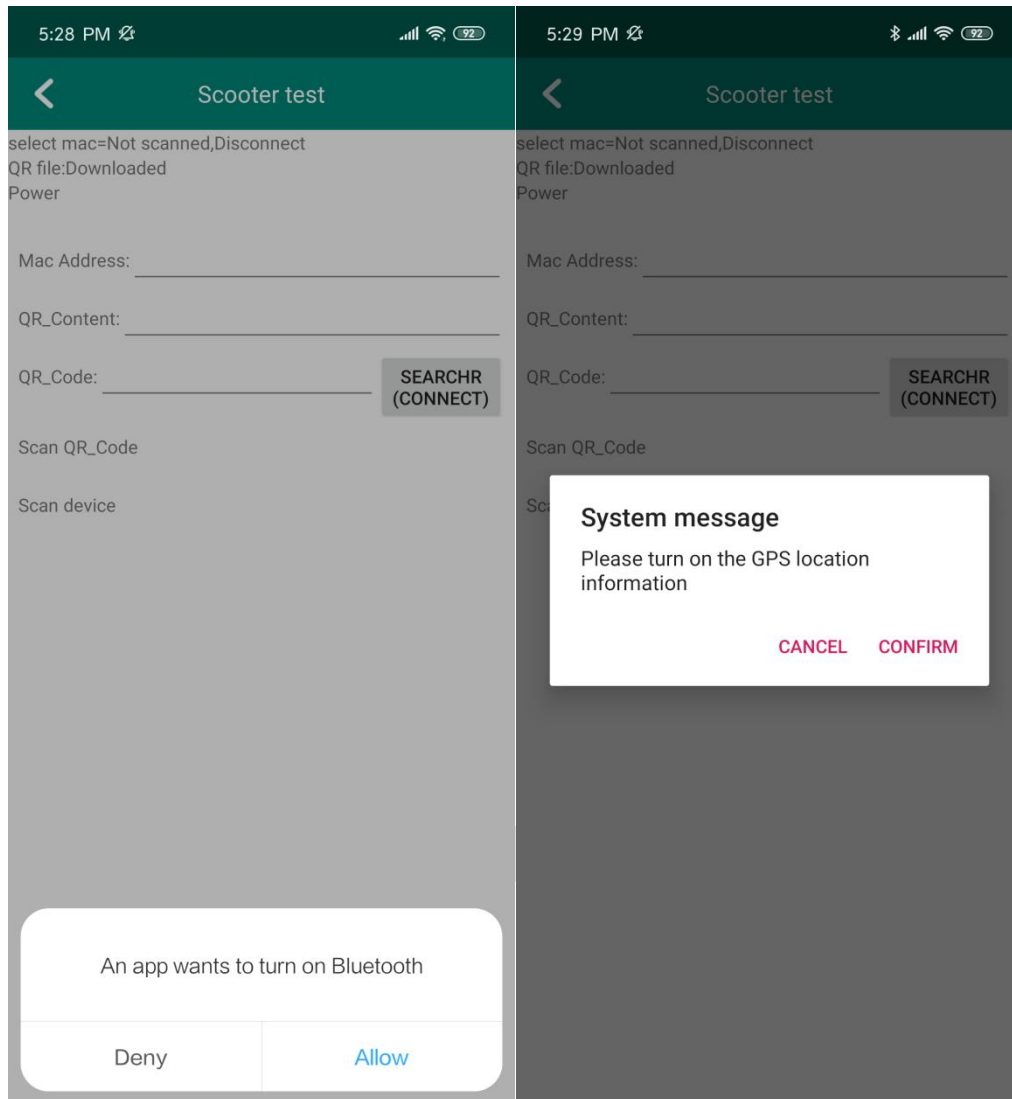
If the network is not good, the test information will be downloaded slowly or even the download will fail. If the test information fails to download, the subsequent test cannot be performed.



At this point, the user can check the network switch or test where the network signal is good.

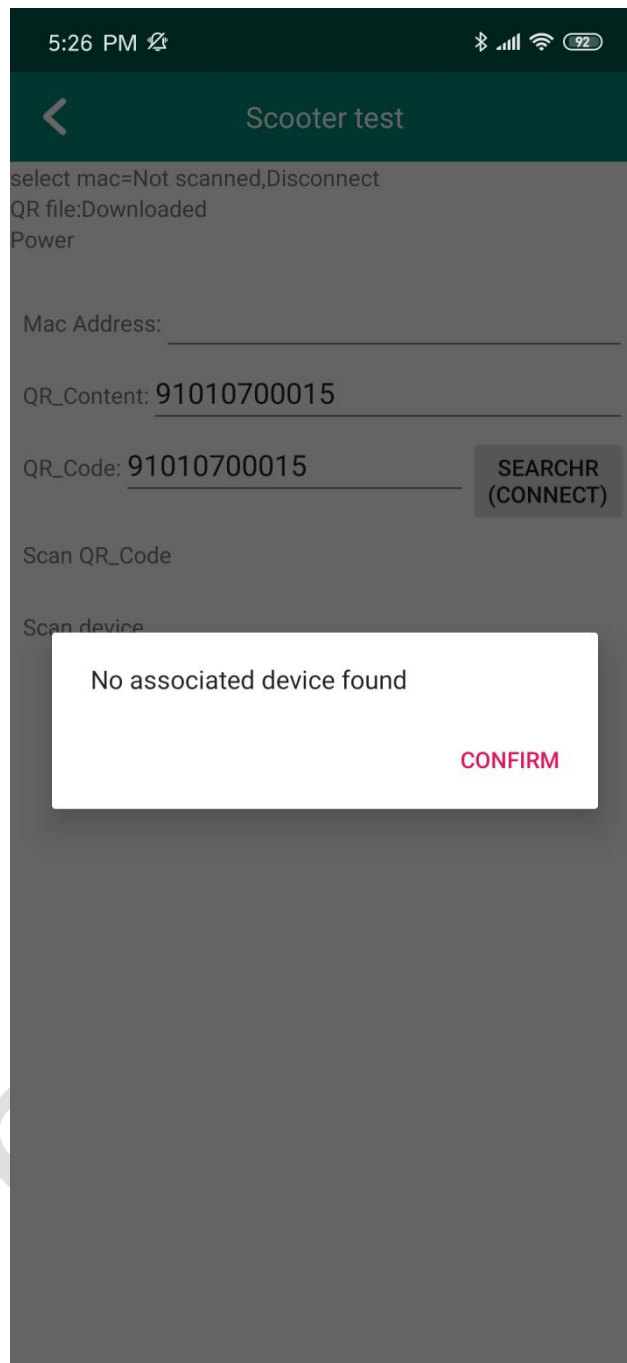
5.1.2、 Bluetooth and GPS positioning not turned on

Bluetooth switch and GPS location service must be turned on during testing



Click "Confirm" to automatically jump to the relevant settings interface

5.1.3、 Test information does not exist



This prompt indicates that the QR code scanned by the user is not in the downloaded test information.

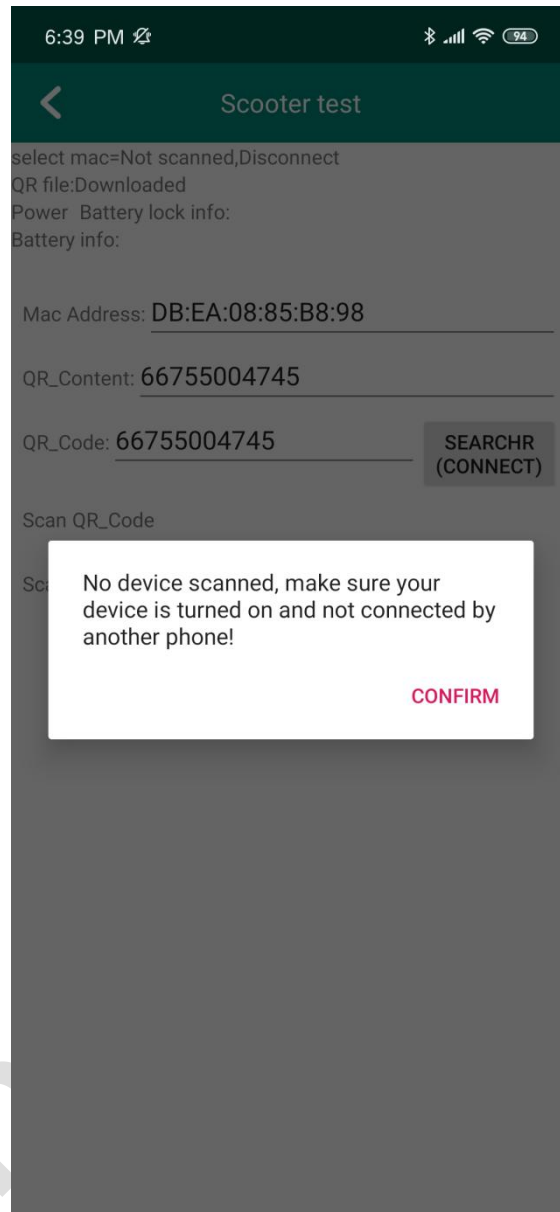
1. It is very likely that an account with multiple test cases selects the test case that needs to be tested when logging in. After exiting the login, the correct test case can be selected again.

2. If there is only a single test case account, it may be that the test information download fails.

Exit to the test case interface and click on a test case to re-download and then scan the QR code.

3. There is also a situation where the server data is updated, the APP is not updated, the user can exit to the test case interface, pull down the refresh, prompt "update successful" and continue testing

5.1.4、 No scan to device



The reason for this prompt is that the phone does not successfully connect to the device's

Bluetooth (this is more common)

1. The reason for this prompt is that the phone does not successfully connect to the device's

Bluetooth (this is more common)

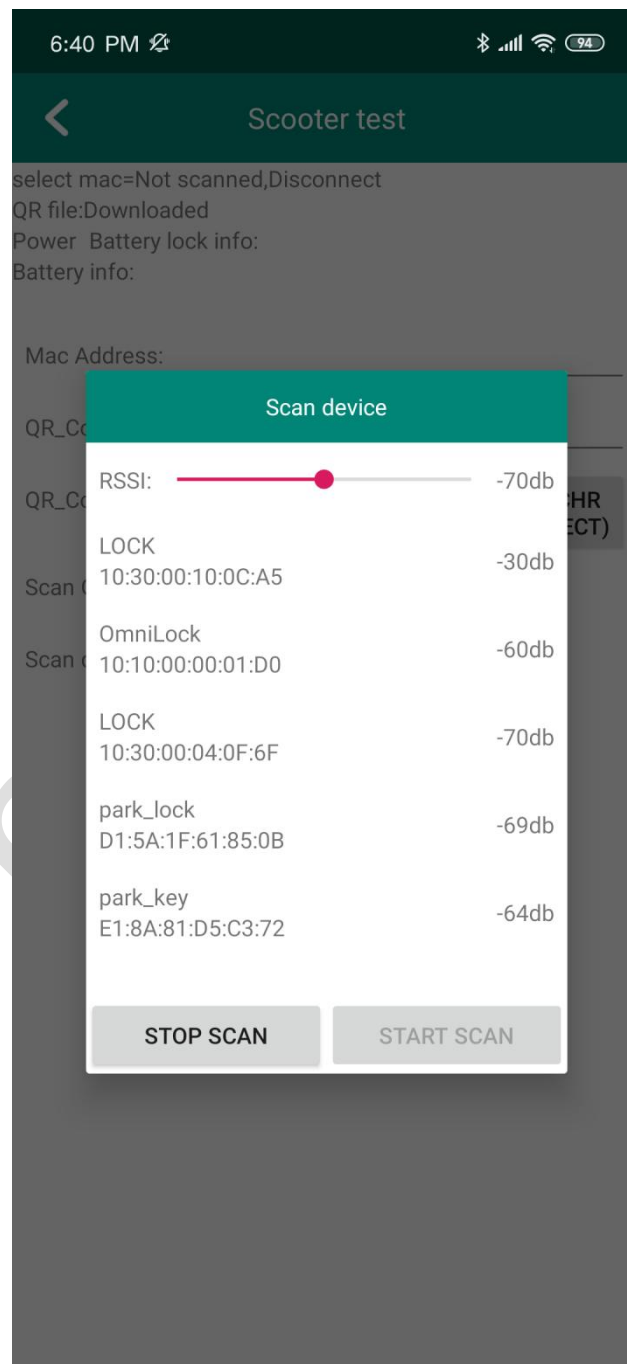
2. Please make sure that the device is turned on, because some products are disconnected directly after shutdown, so the phone will not search for Bluetooth. The products that support Bluetooth boot can still be connected in the off state.
3. If the device is connected to another mobile phone and then connected to it with your own mobile phone, you can disconnect the mobile phone connected to the device and try again.
4. There are other reasons that may interfere with the connection of the mobile phone. At this time, you can restart the Bluetooth of your mobile phone, return to the test case interface or cross the APP and reconnect to the device.

5.2、 Search device

The search device and the QR code are not used for scanning. The QR code scanning is performed

by scanning the QR code on the device, and the search device is connected by searching for the

Bluetooth Mac address near the mobile phone, as shown in the figure:



5.2.1、 Step

Click on the search device, pop-up pop-up window, the list will show the Bluetooth Mac address that can be searched nearby, click on the Mac address you need to connect to wait for the connection.

5.2.2、 Description

1. The upper horizontal line can adjust the range of signal values searched, the left sliding range becomes smaller, and the right sliding range becomes larger.
2. In the case of fewer nearby devices, the first one or two of the general list are the nearest devices.
3. Generally speaking, the closer the device is to the mobile phone, the larger the db value, so when you need to connect a device through the search device during the test, you can take the test device separately and search again, as shown above. As shown, the db to -30 is the device closest to the phone, click on the Mac address to wait for the connection.
4. When the device's Mac address is known, the device's Mac address is not found when searching for the device. You can click to stop scanning, then click to start scanning. At this time, the phone will search for nearby devices again, and you can also right. The horizontal line increases the search range

5.3、Modify IP and APN

At present, only the prototype supports the modification of IP and APN. The bulk of the goods does not support modification temporarily. If the large goods need to modify the IP and APN, the firmware should be upgraded to increase this function (how to upgrade will be described in detail later), So this time we take the prototype as an example, first get the firmware information, look at the current IP and APN, as shown:



The screenshot shows the 'Scooter test' app interface. At the top, there's a status bar with the time 6:43 PM, signal strength, and battery level at 94%. Below the status bar is a green header with a back arrow and the title 'Scooter test'. The main content area displays various device information: 'select mac=DB:EA:08:85:B8:98,Connect', 'QR file:Downloaded', 'Power: 100% Battery lock info:', 'Battery info:', 'Firmware info', 'ICCID:89860437011871964795', 'PORT:9686', 'IP:www.omnibike.net', 'IMEI:867584031208387', 'IPMODE:1', 'VERSION:8A_V2.1.1T', and 'APN:CMNET'. Below this information, there are several input fields and buttons: 'Mac Address: DB:EA:08:85:B8:98', 'QR_Content: 66755004745', 'QR_Code: 66755004745' with a 'SEARCHR (CONNECT)' button, 'Scan QR_Code', 'Scan device', 'Modify IP', 'Modify APN', 'BLE Unlock', and 'BLE Lock'.

6:43 PM

Scooter test

select mac=DB:EA:08:85:B8:98,Connect
QR file:Downloaded
Power: 100% Battery lock info:
Battery info:
Firmware info
ICCID:89860437011871964795
PORT:9686
IP:www.omnibike.net
IMEI:867584031208387
IPMODE:1
VERSION:8A_V2.1.1T
APN:CMNET
PW:, POWER:413, APNMODE:0, MODEL:SIM7600E , GPS:OK,
USER:, ERRCODE:0, VCONT:1, SCOPOWER:100, VDATA:Jul 12
2019, GPSSATE:0,

Mac Address: DB:EA:08:85:B8:98

QR_Content: 66755004745

QR_Code: 66755004745 SEARCHR (CONNECT)

Scan QR_Code

Scan device

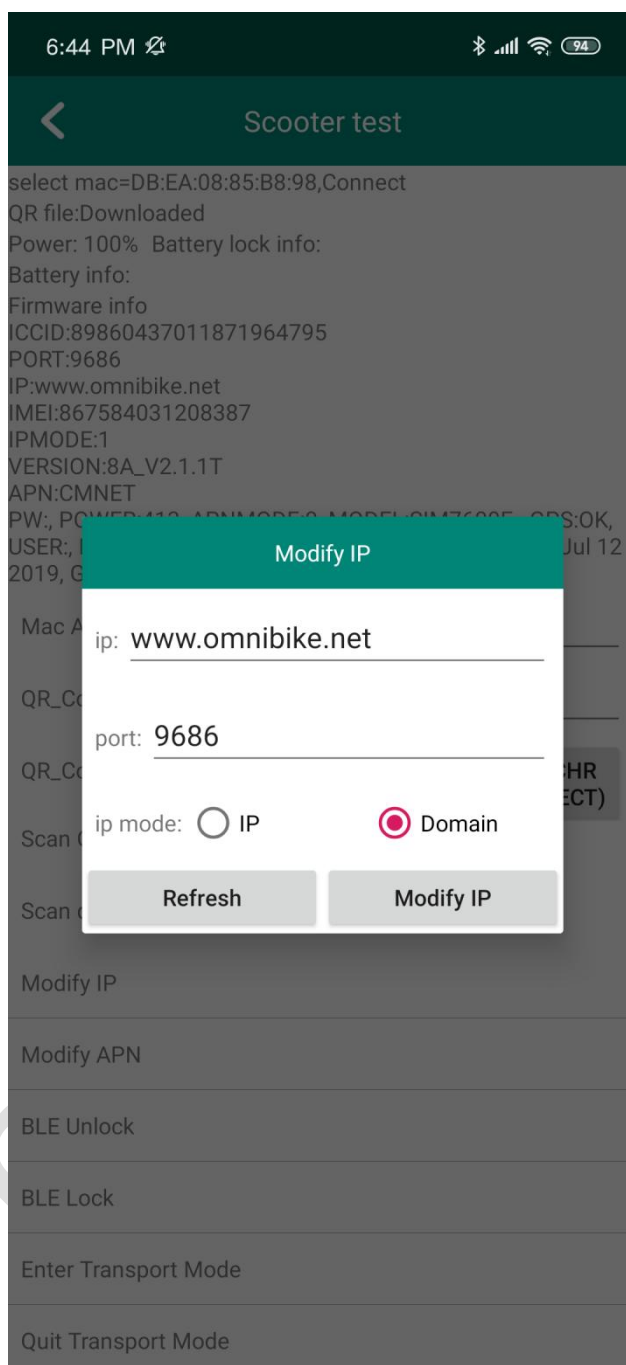
Modify IP

Modify APN

BLE Unlock

BLE Lock

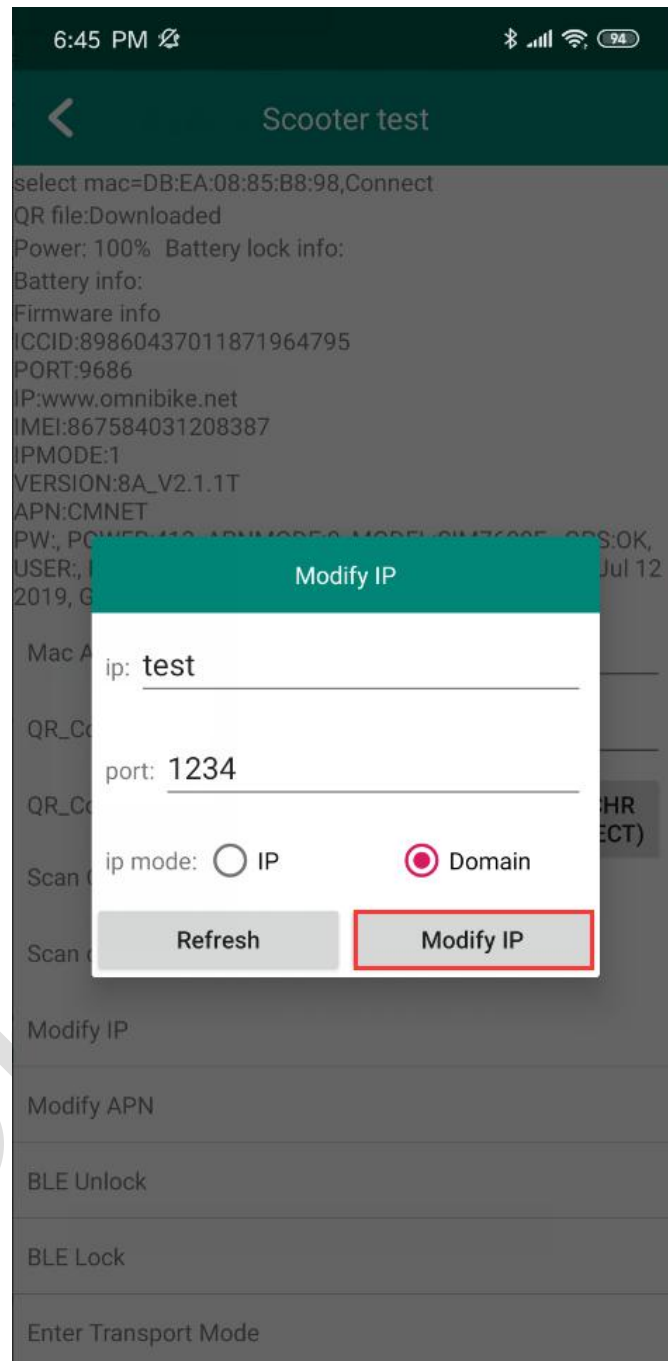
Now we click to modify the IP, as shown:



The current IP and PORT will be displayed in the pop-up window. If there is blank in the pop-up window, the firmware information may not be obtained. You can click refresh or return directly to the test interface to retrieve the firmware information.

Enter the IP and PORT you want to modify in the input box, then select IP Mode, and finally click

Modify IP, as shown in the figure:



After clicking Modify IP, you don't need to do any operation, it will automatically return to the

test interface, and prompt the modification is successful. After 3 seconds, the firmware

information will be automatically refreshed, as shown in the figure

6:47 PM 94

Scooter test

select mac=DB:EA:08:85:B8:98,Connect
QR file:Downloaded
Power: 100% Battery lock info:
Battery info:
Firmware info
ICCID:89860437011871964795
PORT:1234
IP:test
IMEI:867584031208387
IPMODE:1
VERSION:8A_V2.1.1T
APN:CMNET
PW:, POWER:413, APNMODE:0, MODEL:SIM7600E , GPS:OK,
USER:, ERRCODE:0, VCONT:1, SCOPOWER:100, VDATA:Jul 12
2019, GPSSATE:0,

Mac Address: DB:EA:08:85:B8:98

QR_Content: 66755004745

QR_Code: 66755004745 **SEARCHR (CONNECT)**

Scan QR_Code

Scan device

Modify IP

Modify APN

BLE Unlock

BLE Lock

At this time, you can see that the IP and PORT have been modified successfully.

Let's talk about how to modify APN. Let's take a look at the current APN information, as shown in

the figure:

6:48 PM

Scooter test

select mac=DB:EA:08:85:B8:98,Connect
QR file:Downloaded
Power: 100% Battery lock info:
Battery info:
Firmware info
ICCID:89860437011871964795
PORT:1234
IP:test
IMEI:867584031208387
IPMODE:1
VERSION:8A_V2.1.1T
APN:CMNET
PW:123 POWER:413, APNMODE:0, MODEL:SIM7600E ,
GPS:OK, USER:123, ERRCODE:0, VCONT:1, SCOPOWER:100,
VDATA:Jul 12 2019, GPSSATE:0,

Mac Address: DB:EA:08:85:B8:98

QR_Content: 66755004745

QR_Code: 66755004745

SEARCHR
(CONNECT)

Scan QR_Code

Scan device

Modify IP

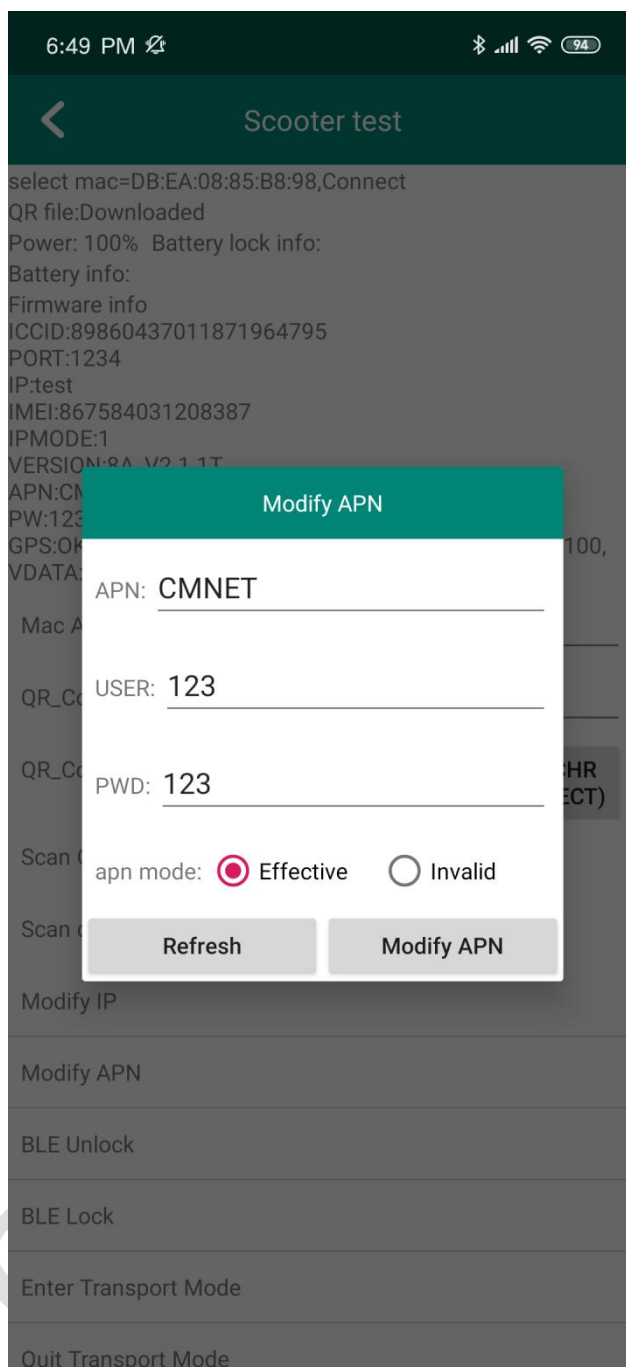
Modify APN

BLE Unlock

BLE Lock

USER is the account, PW is the password, and no account password will be displayed as empty.

Now click on Modify APN, as shown:



The current APN and account password will be displayed in the pop-up window. If the pop-up window displays blank, the firmware information may not be obtained. You can click Refresh or directly return to the test interface to retrieve the firmware information.

In the input box, enter the APN name and account password you want to modify, and then select

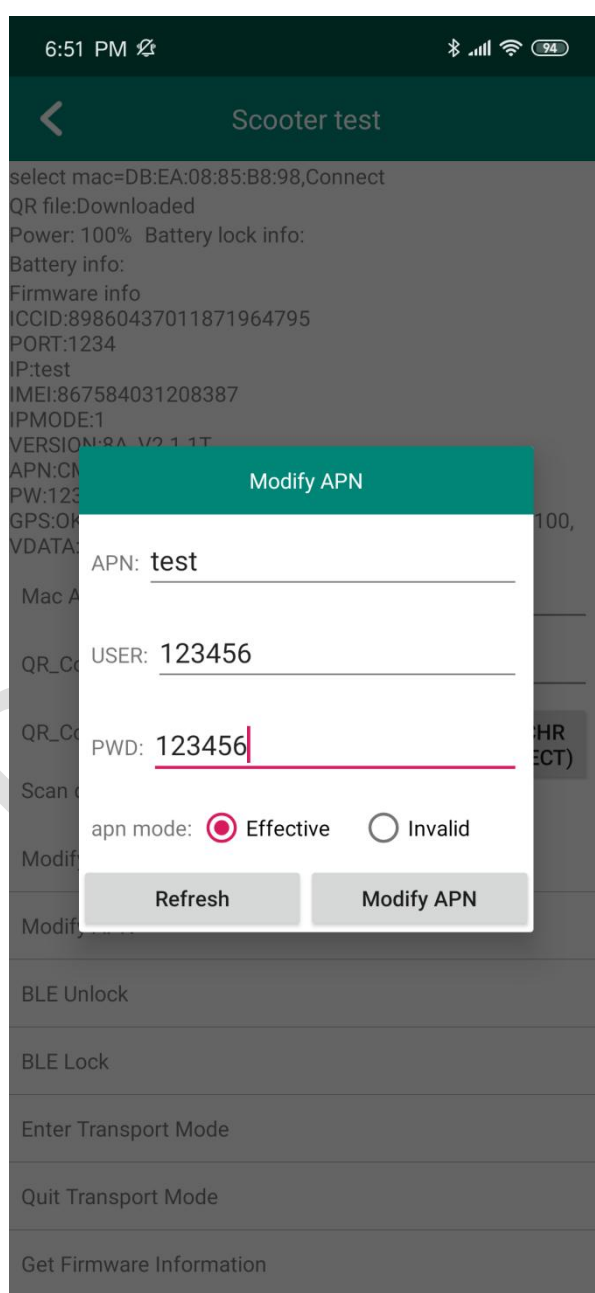
APN Mode. The valid means that the account password is valid. If the selection does not take

effect, the APN name is still modified normally, but the account password is not valid. Finally,

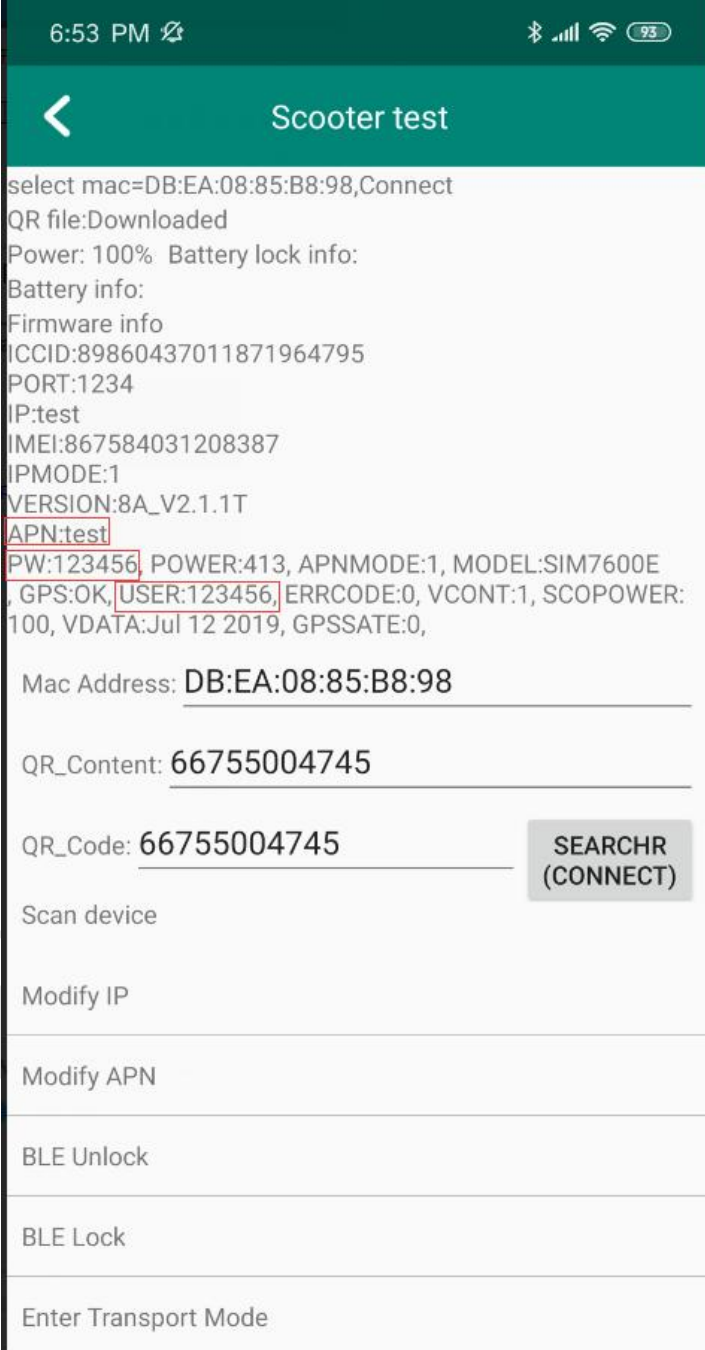
click Modify APN. can

Simply put, if there is an account password, the selection will take effect. If there is no account

password, the selection will not take effect, as shown in the figure:



After clicking Modify APN, you don't need to do any more operations, it will automatically return to the test interface, and prompt the modification is successful. After 3 seconds, the firmware information will be automatically refreshed, as shown in the figure:



6:53 PM

Scooter test

select mac=DB:EA:08:85:B8:98,Connect
QR file:Downloaded
Power: 100% Battery lock info:
Battery info:
Firmware info
ICCID:89860437011871964795
PORT:1234
IP:test
IMEI:867584031208387
IPMODE:1
VERSION:8A_V2.1.1T
APN:test
PW:123456, POWER:413, APNMODE:1, MODEL:SIM7600E
, GPS:OK, USER:123456, ERRCODE:0, VCONT:1, SCOPOWER:
100, VDATA:Jul 12 2019, GPSSATE:0,

Mac Address: DB:EA:08:85:B8:98

QR_Content: 66755004745

QR_Code: 66755004745

SEARCHR
(CONNECT)

Scan device

Modify IP

Modify APN

BLE Unlock

BLE Lock

Enter Transport Mode

At this time, you can see that the APN has been modified successfully.

5.4、Bluetooth upgrade

Users can use this tool to upgrade Bluetooth when they need to upgrade the firmware version of the device.

Make sure that the software has successfully connected to the device during Bluetooth upgrade, otherwise it will not be upgraded.

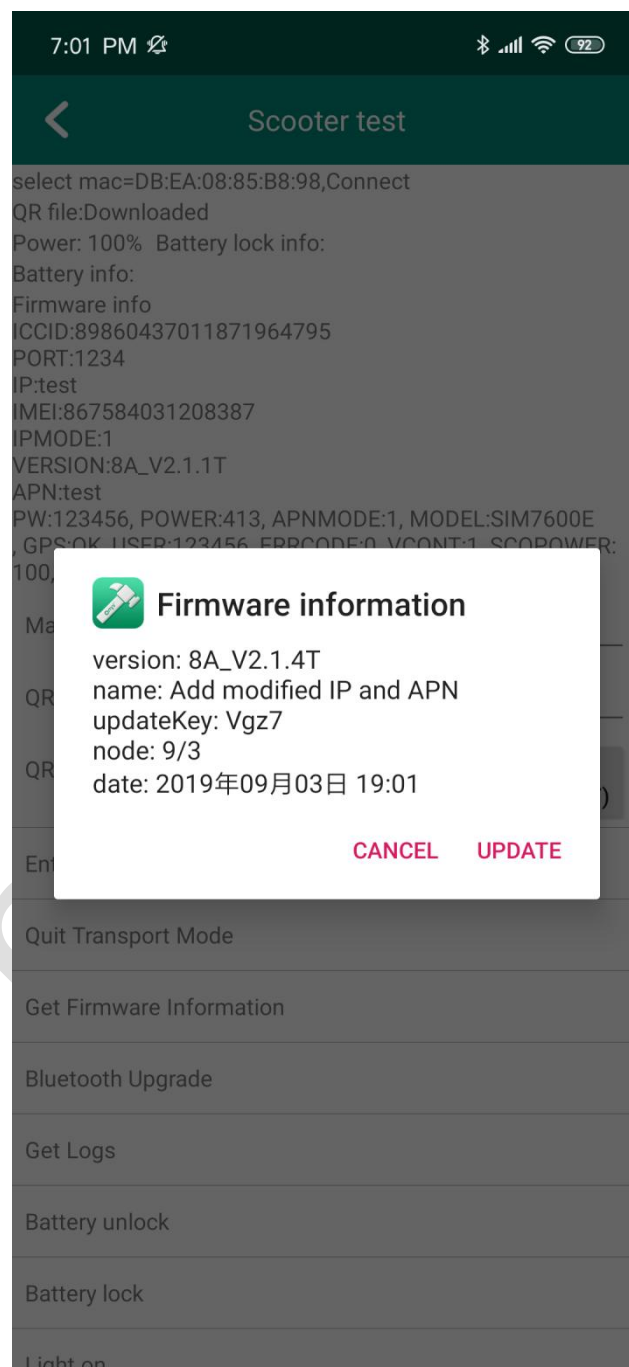
5.4.1、Step

1. Connect the device successfully, click Bluetooth Upgrade and select Update to confirm the upgrade information.
2. Wait patiently for the progress bar to run, do not quit the app (about ten minutes)
3. After the progress bar runs, continue to wait, then the device will disconnect and automatically connect to the phone.
4. If the mobile phone is not automatically connected after disconnection, the user can also manually connect the device. After successfully connecting, check the firmware information. At this time, the version has been upgraded, or the data to be modified has been modified.

5.4.2、Description

Clicking on the Bluetooth upgrade will display the details of the upgrade file, as shown in the

figure:



Confirm that the information is correct before the upgrade (the above picture is only an example),

because the upgrade file may be iterated, the server updates the file. Users need to pull down the test case interface to get the latest upgrade file information, so you need to confirm before upgrading.

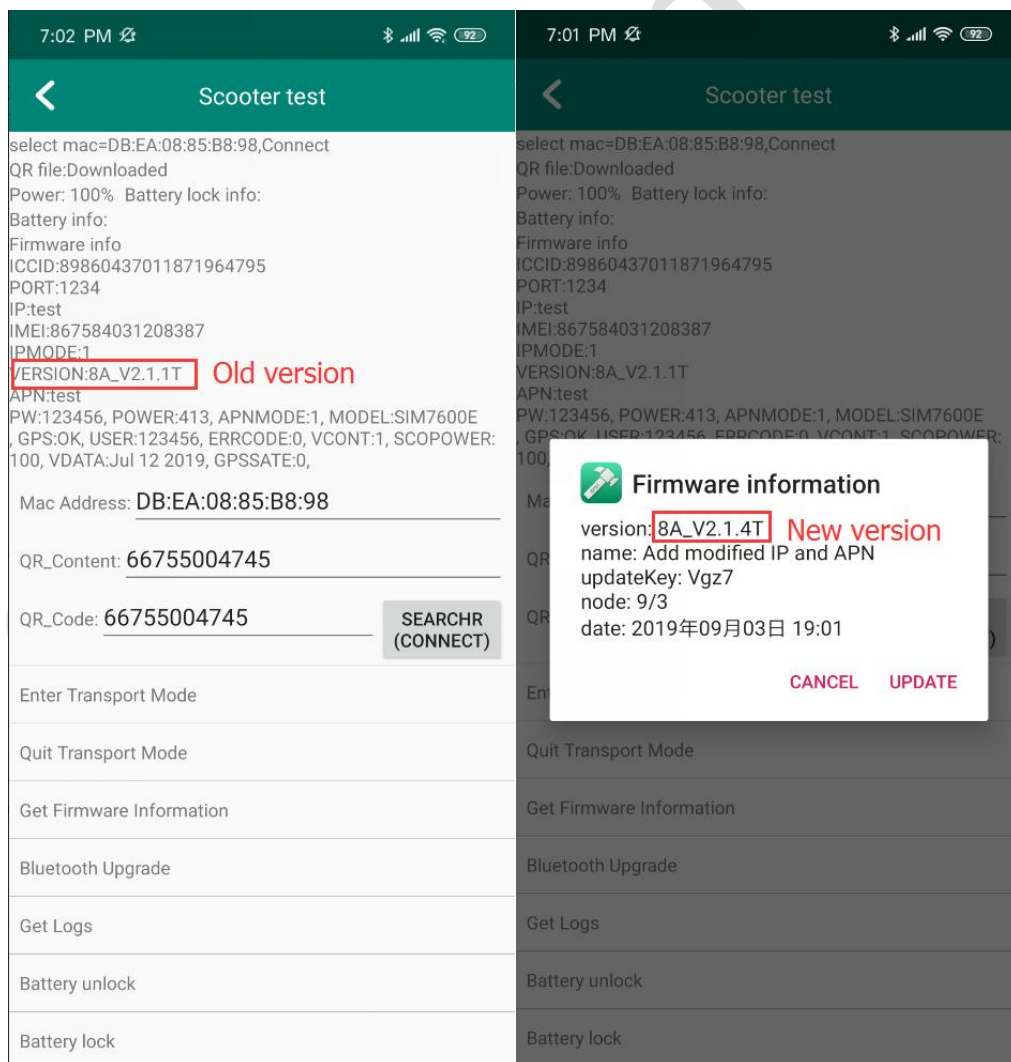
Version: The version of this upgrade

Name: The function of this upgrade

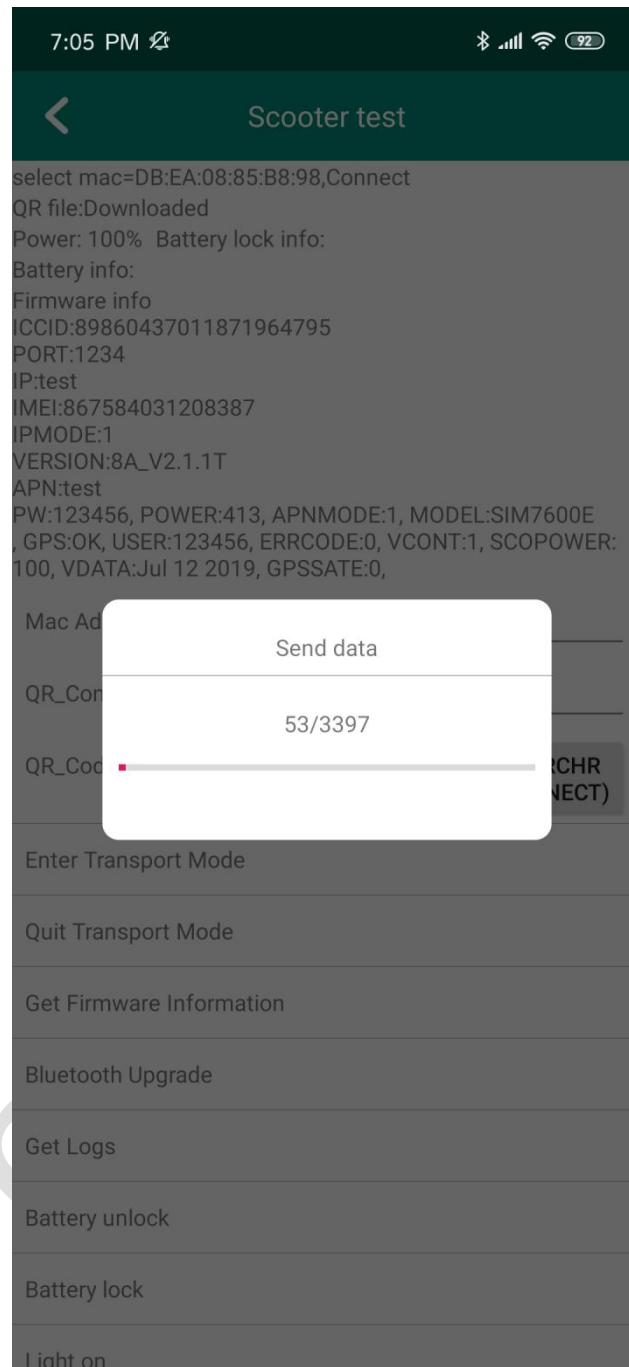
Update key: Upgrade key information (does not match the upgrade key in the device and cannot be upgraded)

Node: Remarks

Date: When the upgrade file is updated



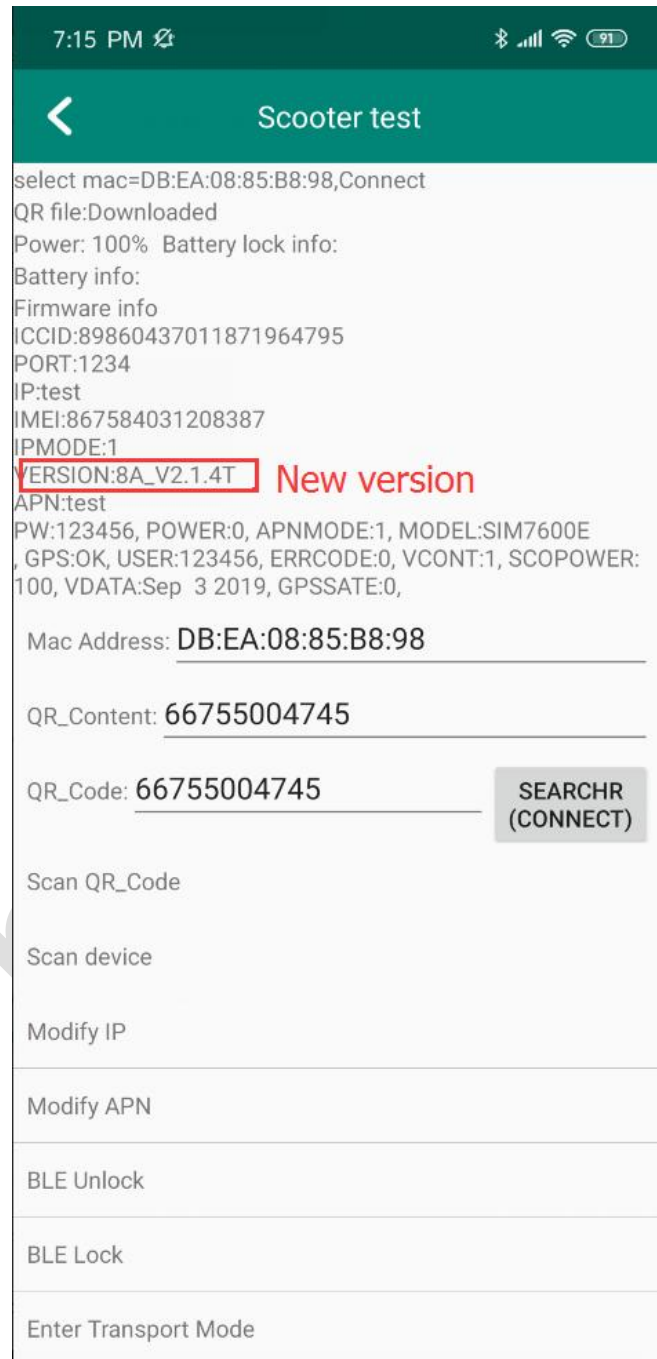
Click Update, pop-up pop-up window to display the upgrade progress bar, as shown in the figure:



In this interface, the device is being upgraded. Please wait patiently for the progress bar to run.

Do not exit the app. Otherwise, the upgrade will fail.

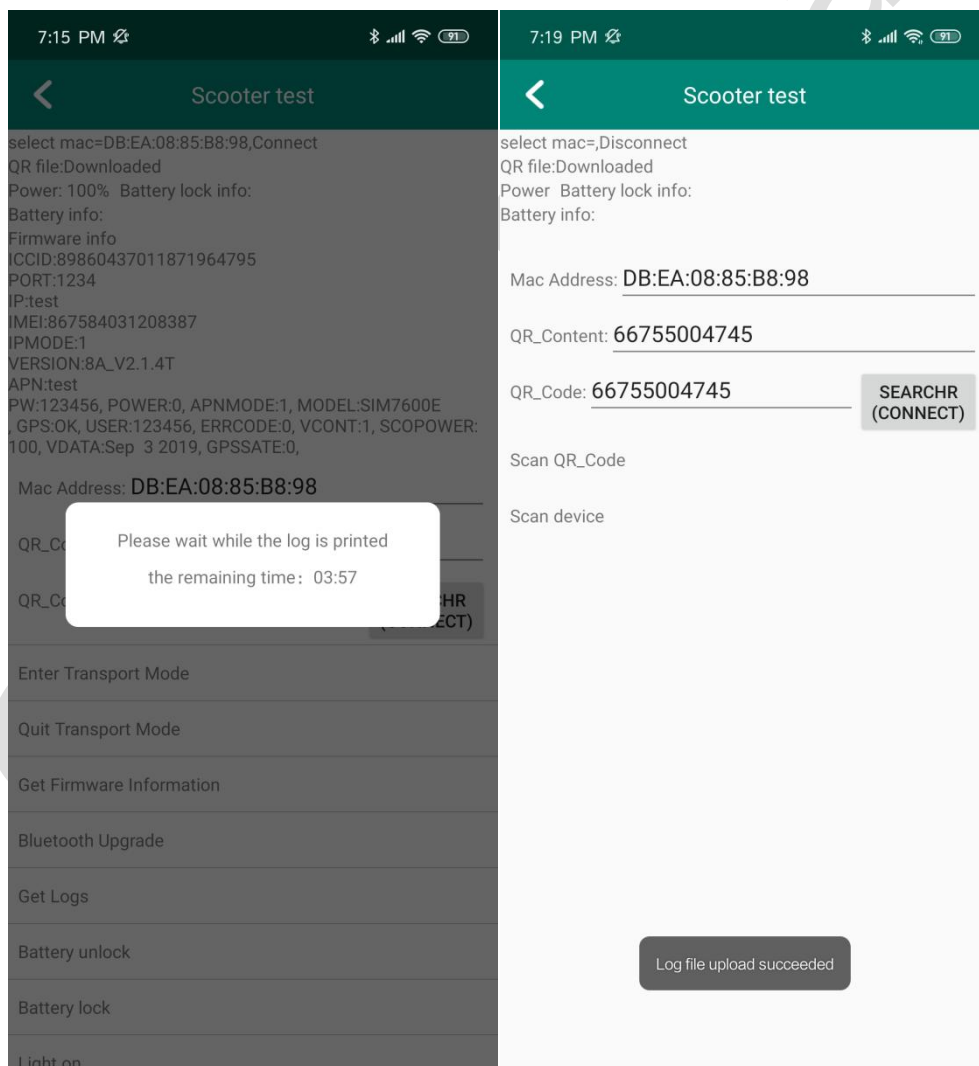
After the progress bar finishes running, the device will be disconnected. After waiting for the automatic connection, you can check that the version in the firmware information has been changed, as shown in the figure:



5.5、Get Logs

The obtained log information can be uploaded to the background server. We can solve some software or device problems by analyzing the logs, thereby maintaining the system and ensuring quality.

After successfully connecting to the device and clicking Get Log, you will be redirected to the Get Log interface, as shown in the figure:



At this time, the log is being printed, and the user cannot cancel. After the printing is finished (240 seconds), the log is automatically uploaded to the server, and the log upload is successful.

After the upload is successful, the log returns to the test main interface, and the software will be disconnected from the device and needs to be reconnected. Just click the "Query (Connect)" button

5.6、Bluetooth on/off lock

When switching the lock, make sure that the software has successfully connected to the device, otherwise it will not operate.

After successful unlocking, the APP will prompt the unlocking success. After the lock is successfully closed, the APP will prompt that the lock is successful, the device will be disconnected from the APP, and the firmware information will not be displayed.

If you need to re-lock, just click the "Query (Connect)" button to successfully connect, you do not need to re-scan the QR code.

5.7、Bluetooth on/off

After clicking Bluetooth, the device will be disconnected from the APP, enter the transport mode, can not use the Bluetooth switch lock, Bluetooth upgrade, get logs and other functions, boot can click Bluetooth to activate (some IOT does not support) or press the button to activate

5.8、 Disconnect

Just disconnect the APP and the device. To disconnect if you don't want to close the lock and don't want to quit, you can click the "Disconnect" button.

5.9、 Query (connection)

When you do not get the device information (Mac address, QR code), click "Query (Connect)" can not connect to the device, will prompt "No device found"

After the lock, shutdown, log upload, etc., the APP will be disconnected from the device. You can reconnect by clicking the "Query (Connect)" button, instead of scanning the QR code or searching for nearby Bluetooth devices. Scanned connection

5.10、 Other functions

We have equipped different functions for different IOTs, such as: battery lock on/off lock, RGB lamp test, cable lock unlock, high speed mode speed limit value, etc. After normal connection, click these functions to test