GV57MG V2(Plus)+GL53MG SVR Combo User Manual

EGPRS/LTE Cat-M1/LTE Cat-NB2/GNSS Tracker

TRACGV57MG V2SVR001

V1.00





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History

Revision	Date	Author	Description of Change
1.00	April 3, 2024	Jane Wang	Initial.

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1. Overview

This document describes how to pair a Bluetooth device (**Queclink's GV57MG V2(Plus)**) with another Bluetooth device (**Queclink's GL53MG**), as two Bluetooth devices support Stolen Vehicle Recovery (SVR) function. You can also find answers in the FAQs (Chapter 3) regarding Bluetooth pairing.

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2. Pairing Instructions

Before the pairing process can be initiated for Bluetooth-based communication, pairing parameters need to be successfully configured for the GV57MG V2(Plus) and the GL53MG. To configure the Bluetooth pairing parameters, MAC addresses and IMEI numbers of the two devices are required.

2.1. Get the Bluetooth MAC addresses

There are two ways to get the Bluetooth MAC address.

2.1.1. Method 1: Get the Bluetooth MAC address on the device label

Read the MAC information on the label of two devices respectively.

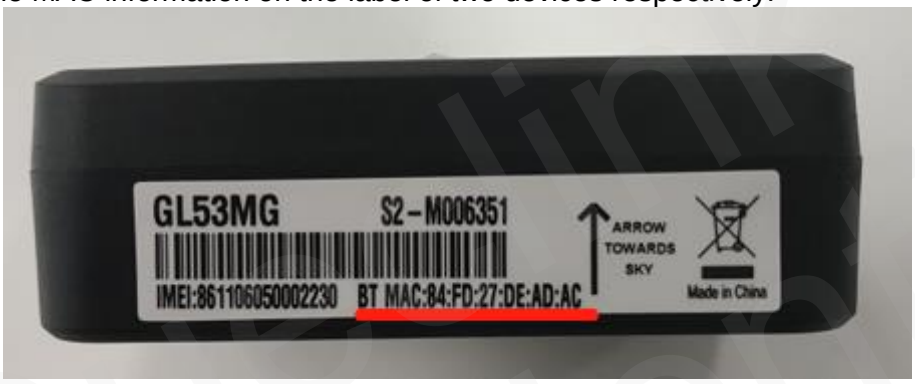

Figure 1: Get GL53MG Bluetooth MAC address on the label



Figure 2: Get GV57MG V2(Plus) Bluetooth MAC address on the label

2.1.2. Method 2: Get the MAC address via Manage Tool

Step 1

Connect two devices respectively to PC via a UART Cable.

Step 2
Turn on two devices respectively.

Step 3
Open **Manage Tool** application of two devices respectively and click **Connect to COM**. The Manage Tool reads device information automatically.

Step 4
Select the **About** item under the **Help** Menu.

Step 5
Record the Bluetooth MAC address displayed on the **About** page.

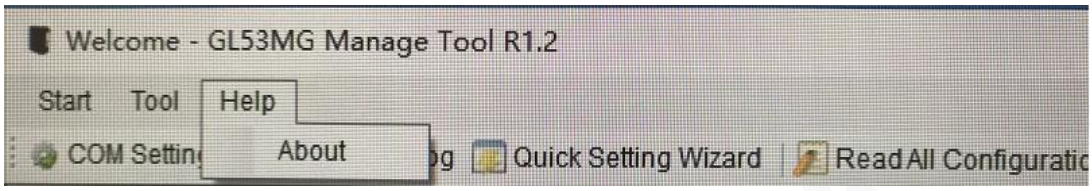

Figure 3: **About** item under the **Help** Menu on GL53MG Manage Tool



Figure 4: GL53MG MAC Address displayed on the pop-up window

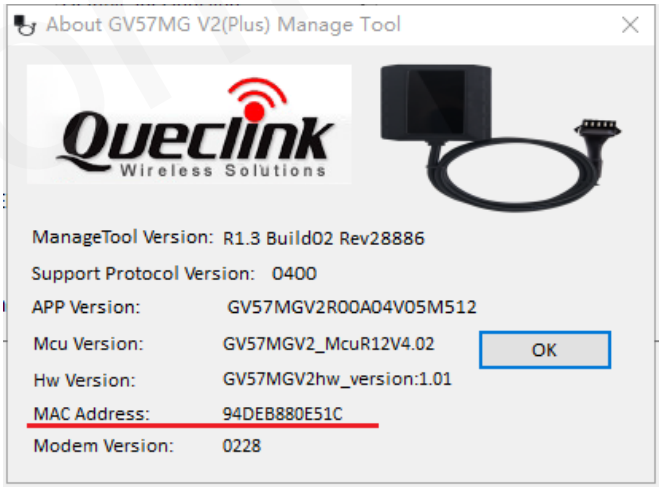

Figure 5: GV57MG V2(Plus) MAC Address displayed on the pop-up window

2.2. Get the IMEI number

There are two ways to get the device's IMEI number.

2.2.1. Method 1: Get IMEI number on the device label

Read the IMEI number on the label of two devices respectively.



Figure 6: Get GL53MG device IMEI number on the label

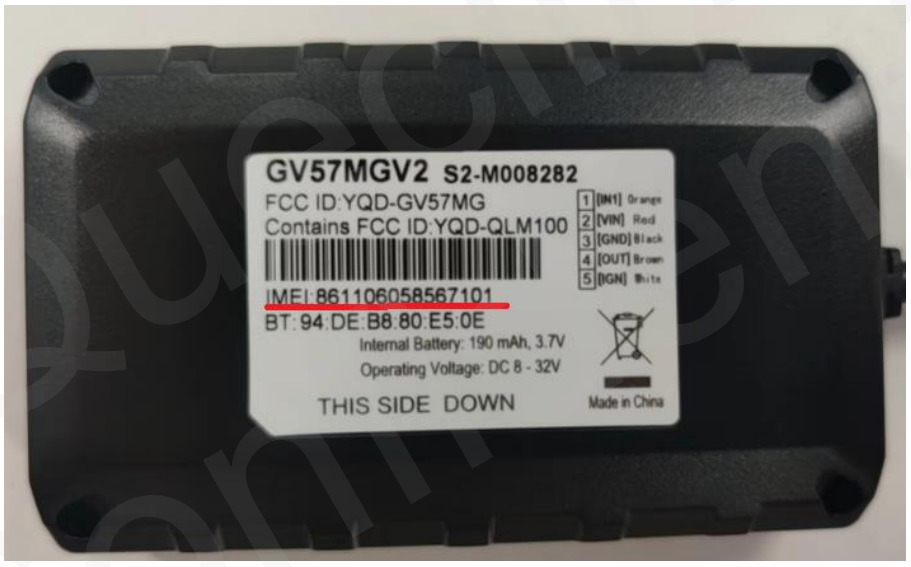

Figure 7: Get GV57MG V2(Plus) device IMEI number on the label

2.2.2. Method 2: Get the IMEI number via Manage Tool

Step 1
Connect two devices respectively to PC via a UART Cable.

Step 2
Turn on two devices respectively.

Step 3
Open **Manage Tool** application of two devices respectively and click **Connect to COM**.

Step 4
Record the IMEI number displayed in the **System Status** bar.

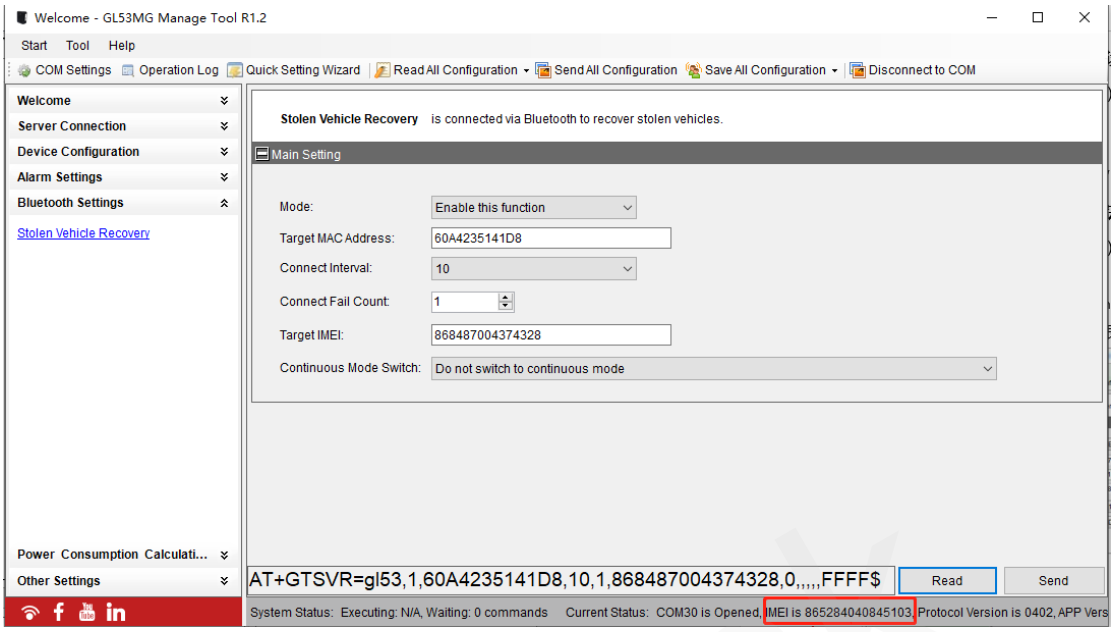

Figure 8: Get GL53MG device IMEI number by Manage Tool

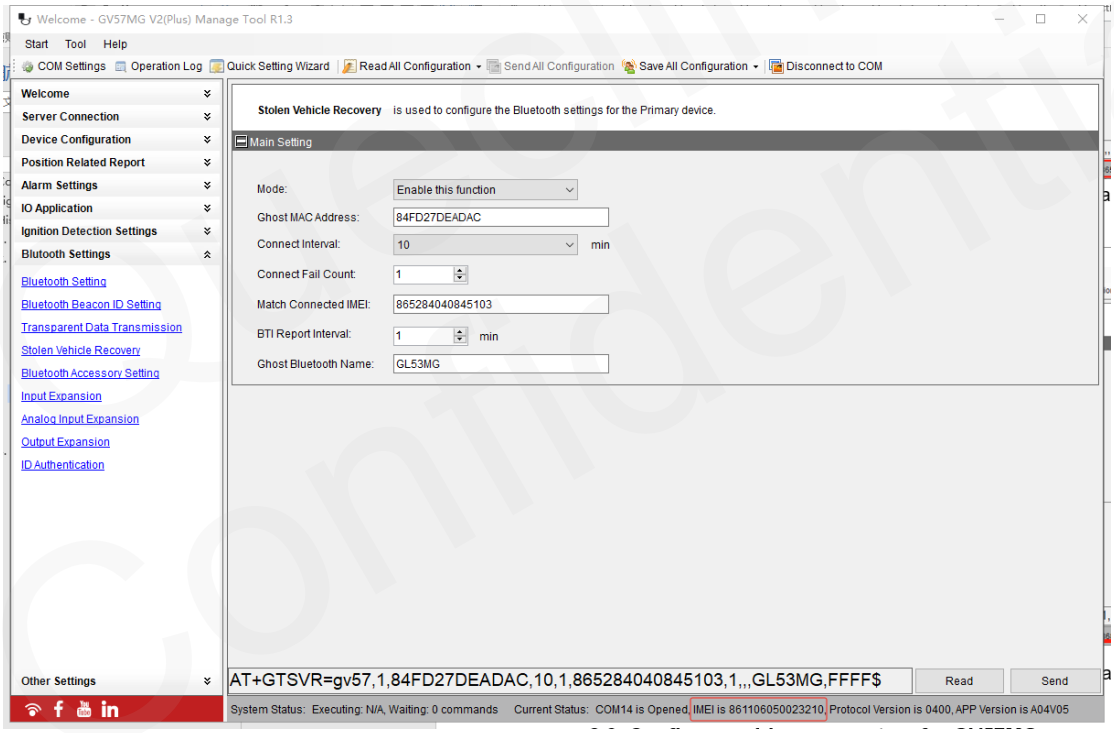

Figure 9: Get GV57MG V2(Plus) device IMEI number by Manage Tool

2.3. Configure pairing parameters for GV57MG V2(Plus)

Step 1
Connect the GV57MG V2(Plus) to PC via a UART Cable.

Step 2
Turn on the GV57MG V2(Plus).

Step 3

Open **Manage Tool** application of the GV57MG V2(Plus) and click **Connect to COM**.

Step 4
Select **Bluetooth Settings**. For Mode in Main Setting, select **Enable, turn on the Bluetooth**.

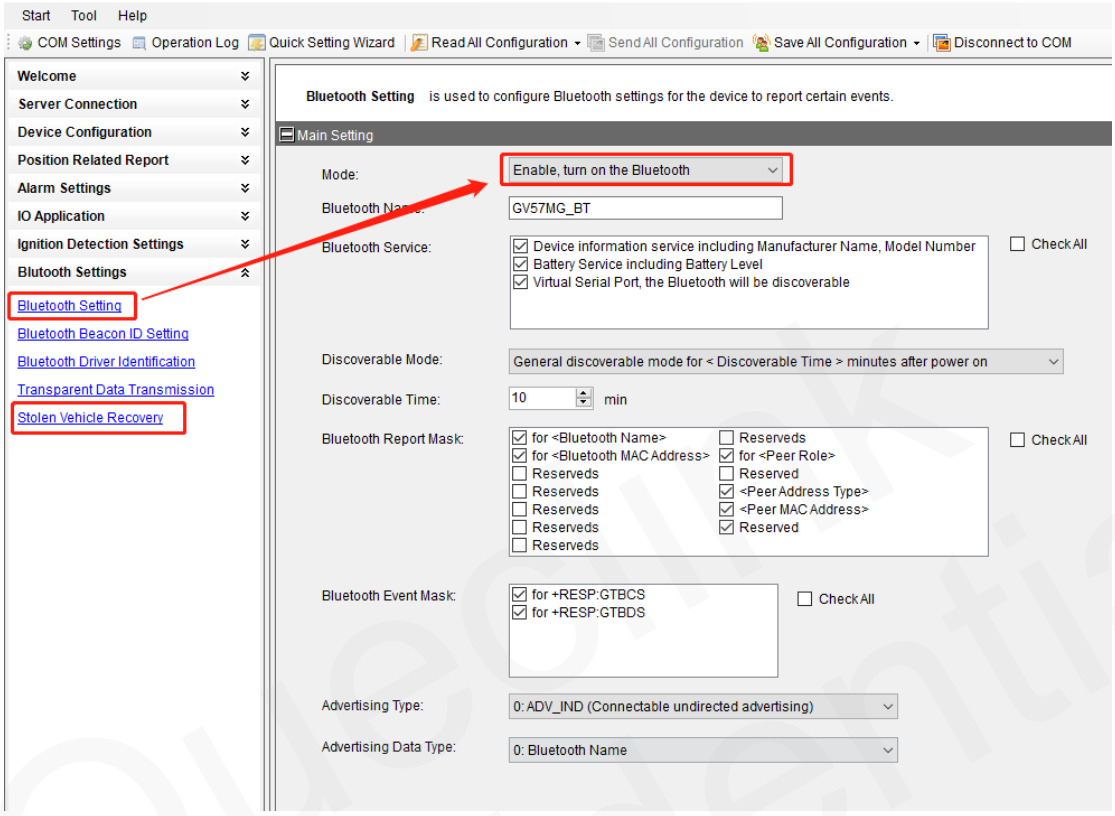

Figure 10: Configure GTBTS parameters for GV57MG V2(Plus)

Step 5
Select **Bluetooth Settings**>**Stolen Vehicle Recovery**.

Step 6
For **Main Setting**, please refer to the following instructions to set the pairing parameters for the **GV57MG V2(Plus).**

- *<Mode>:* Set it to “Enable this function”.
- *<Ghost MAC Address>:* Enter the 12-digit MAC address (e.g. 505050505050) of the **GL53MG** device to be paired.
- *<Connect Interval>:* Set the time interval for Bluetooth connection. The default value is 10 minutes.
- *<Connect Fail Count>:* Set the maximum number of allowed Bluetooth connections within the timeout period. The default value is 1.
- *<Match Connected IMEI>:* Enter the 15-digit IMEI number (e.g. 869406850505050) of the **GL53MG** device to be paired.
- *<BTI Report interval>:* It specifies the interval for reporting the **+RESP:GTBTI** message regarding the status and Bluetooth information of the Ghost device. 0 means “Disable the **+RESP:GTBTI** report”. Unit: minute.

For detailed information regarding those parameters of the Stolen Vehicle Recovery function, please refer to GV57MG V2(Plus) @Track Air Interface Protocol.

Step 7
Select **Send** to complete the configuration of the pairing parameters for the GV57MG V2(Plus).

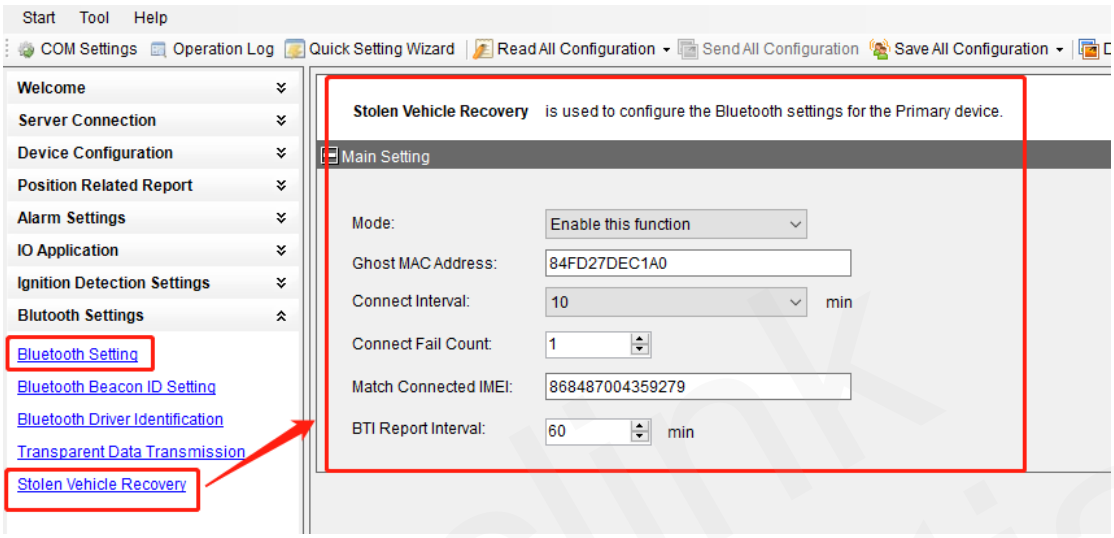

Figure 11: Configure pairing parameters for GV57MG V2(Plus)

2.4. Configure pairing parameters for GL53MG

Step 1
Connect the GL53MG to PC via a UART Cable.

Step 2
Turn on the GL53MG.

Step 3
Open **Manage Tool** application of the GL53MG and click **Connect to COM**.

Step 4
Select **Bluetooth Settings**>**Stolen Vehicle Recovery**.

Step 5
For **Main Setting**, please refer to the following instructions to set the pairing parameters for the **GL53MG**.

- *<Mode>:* Set it to “Enable SVR function”.
- *<Target MAC Address>:* Enter the 12-digit MAC address (e.g. 565656565656) of the **GV57MG V2(Plus)** device to be paired.
- *<Connect Interval>:* Set the time interval for Bluetooth connection. The default value is 10 minutes.
- *<Connect Timeout Count>:* Set the maximum number of allowed Bluetooth connections within the timeout period. The default value is 1.
- *<Target IMEI>:* Enter the 15-digit IMEI number (e.g. 869406856565656) of the **GV57MG V2(Plus)** device to be paired.

✧ <*Continuous Mode Switch*>: It specifies whether the device switches to continuous mode when the target device is lost or restored.

For detailed information regarding those parameters of the Stolen Vehicle Recovery function, please refer to GL53MG @Track Air Interface Protocol.

Step 6
Click **Send** to complete the configuration of the pairing parameters for the **GL53MG**.

Note: Please make sure the value of <*Connect Interval*> for the **GL53MG** is the same as the <*Connect Interval*> value set for the **GV57MG V2(Plus).**

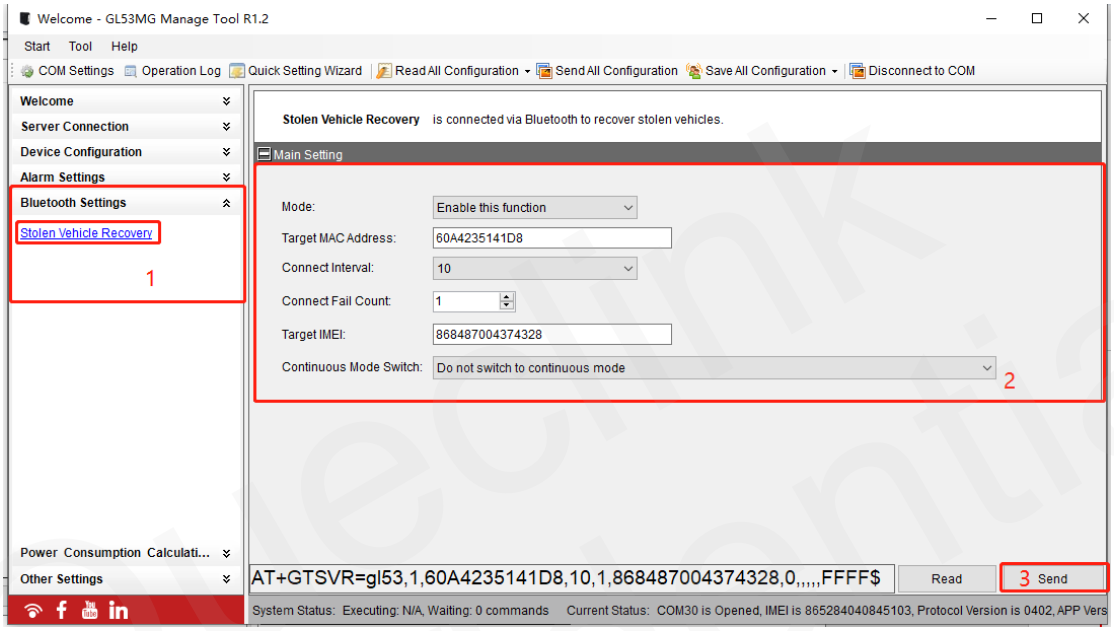

Figure 12: Configure pairing parameters for GL53MG

2.5. Turn on GV57MG V2(Plus) first, then GL53MG

After completing the configuration of Bluetooth pairing parameters for the **GV57MG V2(Plus)** and the **GL53MG** respectively, turn on the **GV57MG V2(Plus)** device first and then the **GL53MG** device to initiate the pairing process.

Note: Please strictly follow the operation sequence, turning on the **GV57MG V2(Plus)** first, then the **GL53MG**.

If the Bluetooth pairing is successful, the Cellular LED indicator (green) of the **GV57MG V2(Plus)** will flash slowly (2s ON / 2s OFF) for 40 seconds.

After the Bluetooth pairing is completed successfully, the two paired devices are ready for the Stolen Vehicle Recovery function, then will initiate Bluetooth connection and exchange status data at a specified connection interval. When the Bluetooth connection fails or the status of the paired devices changes, the **+RESP:GTSVR** message will be sent to the backend server.

3. FAQs

3.1. What should I do if the Bluetooth connection fails or the data transfer fails?

The following table gives an analysis of the causes of Bluetooth connection or data transfer failure based on <*SVR Working State*> reported in the **+RESP:GTSVR** message.

SN	***<SVR Working State>***	**Description**	**Causes & Solutions**
1	1	Successful pairing	/
2	0/2	Bluetooth connection failed	1. The distance between the two Bluetooth devices is too long: Please place two devices within the range of the wireless Bluetooth signal. 2. Signal interference: Please check the network environment, and find the source of interference and remove it. 3. Incorrect MAC address set for Bluetooth pairing: Please make sure the MAC address of the other device set in the **AT+GTSVR** command is correct. 4. The **GL53MG** has entered sleep mode: Please strictly follow the operation sequence, turning on the **GV57MG V2(Plus)** first and then the **GL53MG** for pairing. If the pairing fails within the timeout period, turn the **GL53MG** switch back on.

3.2. What should I do if the paired devices need to be re-paired?

Step 1
Reconfigure <*Match Connected MAC*> and <*Match Connected IMEI*> settings in the **AT+GTSVR** command for the **GV57MG V2(Plus)**, send this command and reboot the device.

Step 2
Send **AT+GTRTO=gl53,14,RST,,,,,FFFF$** to clear the pairing information, or send **AT+GTRTO=gl53,4,SVR,,,,,FFFF$** to reset all parameters (the pairing information will be cleared too).

Step 3
Reconfigure <*Target MAC Address*> and <*Target IMEI*> settings in the **AT+GTSVR** command for **GL53MG**, and send this command.

Step 4
Turn off the **GL53MG**, wait 3 seconds and then turn it back on.