



# GSM/GPRS/GPS Tracker **GV55** Manage Tool User Guide

TRACGV55MT001

Revision: 1.02



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## Contents

Contents .....	3
1. Revision History .....	5
2. GV55 Manage Tool Interface .....	6
2.1. System Requirements .....	6
2.2. COM Setting .....	7
2.3. Quick Setting Wizard .....	7
2.4. Professional Setting Windows.....	8
2.4.1. Title Bar.....	8
2.4.2. Menus.....	8
2.4.3. Toolbar .....	11
2.4.4. Status Bar .....	12
2.4.5. Command Browser and Command Operation Space.....	12
2.5. Operation Result Interface .....	14
2.5.1. Operation Successfully Interface .....	14
2.5.2. Operation Failed Interface.....	14
3. Operation Instruction .....	16
3.1. Device Configuration with Quick Setting Wizard.....	16
3.1.1. Welcome to Quick Setting Wizard .....	16
3.1.2. GPRS Network Setting .....	17
3.1.3. Main Server Setting.....	17
3.1.4. Fixed Time Report Setting .....	18
3.1.5. Send Command to Device.....	19
3.2. Device Configuration in Professional Setting Mode.....	21
3.2.1. Set the parameters of bearer setting information.....	21
3.2.2. Set the parameters of backend server register information .....	22
3.2.3. Set the parameters of quick start setting.....	23
3.2.4. Set the parameters of global configuration.....	24
3.2.5. Set the parameters of auto-unlock PIN.....	25
3.2.6. Set the parameters of protocol watchdog .....	26
3.2.7. Set the parameters of outside working hours .....	27
3.2.8. Set the parameters of time adjustment .....	28
3.2.9. Set the parameters of jamming detection .....	29
3.2.10. Set the parameters of hex report mask setting.....	30
3.2.11. Set the parameters of Preserve special device logical state.....	31
3.2.12. Set the parameters of fixed report information .....	32
3.2.13. Set the parameters of Geo-fence information.....	33
3.2.14. Set the parameters of tow alarm configuration .....	34
3.2.15. Set the parameters of speed alarm.....	35
3.2.16. Set the parameters of SOS function .....	36
3.2.17. Set the parameters of excessive idling detection.....	37
3.2.18. Set the parameters of harsh behavior monitoring.....	38

3.2.19.	Set the parameters of buzzer alarm definition.....	39
3.2.20.	Set the parameters of over speed alarm.....	40
3.2.21.	Set the parameters of start stop report.....	41
3.2.22.	Set the parameters of digital output report.....	42
3.2.23.	Set the parameters of external power supply monitoring.....	43
3.2.24.	Set the parameters of digital input port setting.....	44
3.2.25.	Set the parameters of input/output port binding.....	45
3.2.26.	Set the parameters of hour meter counter.....	46
3.2.27.	Set the parameters of real time operation.....	47
3.2.28.	Set the parameters of white list setting.....	48
3.2.29.	Set the parameters of crash detection.....	49
3.2.30.	Set the parameters of GPS Jamming Status Report.....	50
3.3.	Read/Save All Configuration.....	51
3.4.	Load/Send All Configuration.....	52

## 1. Revision History

Revision	Date	Author	Description of change
1.00	2012-07-02	Mandy Zhang	Initial
1.01	2013-05-10	Mandy Zhang	Add AT command GTPDS、GTBZA、GTSPA、GTSSR
1.02	2013-07-24	Mandy Zhang	Add AT command GTGPJ

## 2. GV55 Manage Tool Interface

GV55 manage tool is PC software which can be used to configure GV55 through UART. It is easy for the backend server developers to configure GV55 with manage tool, which has friendly user interface. The correct command messages sent to GV55 will be displayed on the manage tool. (These messages can also be sent by SMS or GPRS ).

The administrators can also use the manage tool to configure GV55 before selling. But it is strongly recommended to establish a backend server and implement the way to control GV55 by SMS or GPRS. Please refer to “GV55 @Track Air Interface Protocol” for detail.

Before using the manage tools please install driver for the USB data cable (DATA CABLE\_M). After that a new COM port can be found in the PC system, and then please follow the steps as below:

1. Connect GV55 to 12VDC power supply and GV55 will power on.
2. Connect GV55 to PC with USB data cable (DATA CABLE\_M).
3. Run “GV55 Manage Tool Vx.xx.exe”.

### 2.1. System Requirements

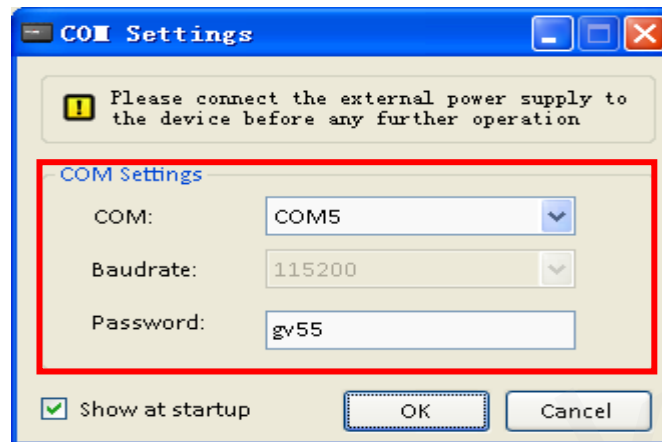
In order for this manage tool to run on your computer, you must use it in below operating system:

- ◆ Windows 98SE;
- ◆ Windows ME Windows 2000 SP4;
- ◆ Windows XP SP2 and above (32 & 64 bit);
- ◆ Windows Server 2003 (32 & 64 bit);
- ◆ Windows Server 2008 (32 & 64 bit);
- ◆ Windows Vista (32 & 64 bit);
- ◆ Windows 7 (32 & 64 bit);

Supported System Environments:

- ◆ Microsoft .NET Framework 2.0 or higher

## 2.2. COM Setting

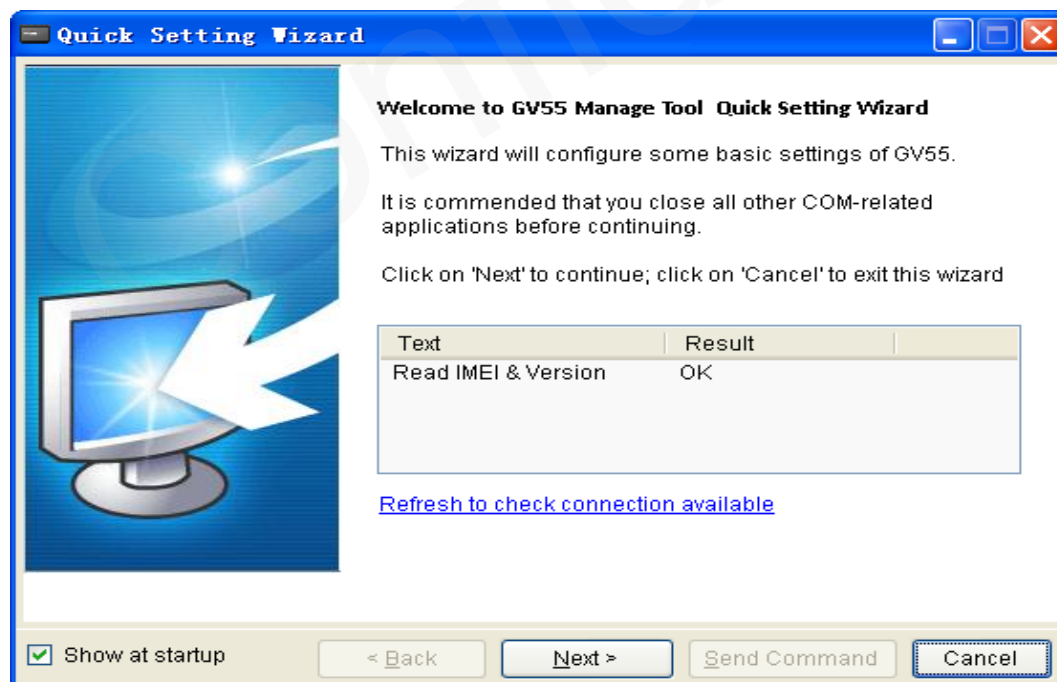


Select the COM port and baud rate (115200bps in default), input the password (“GV55” in default), and click “OK” button, then setting window will display.

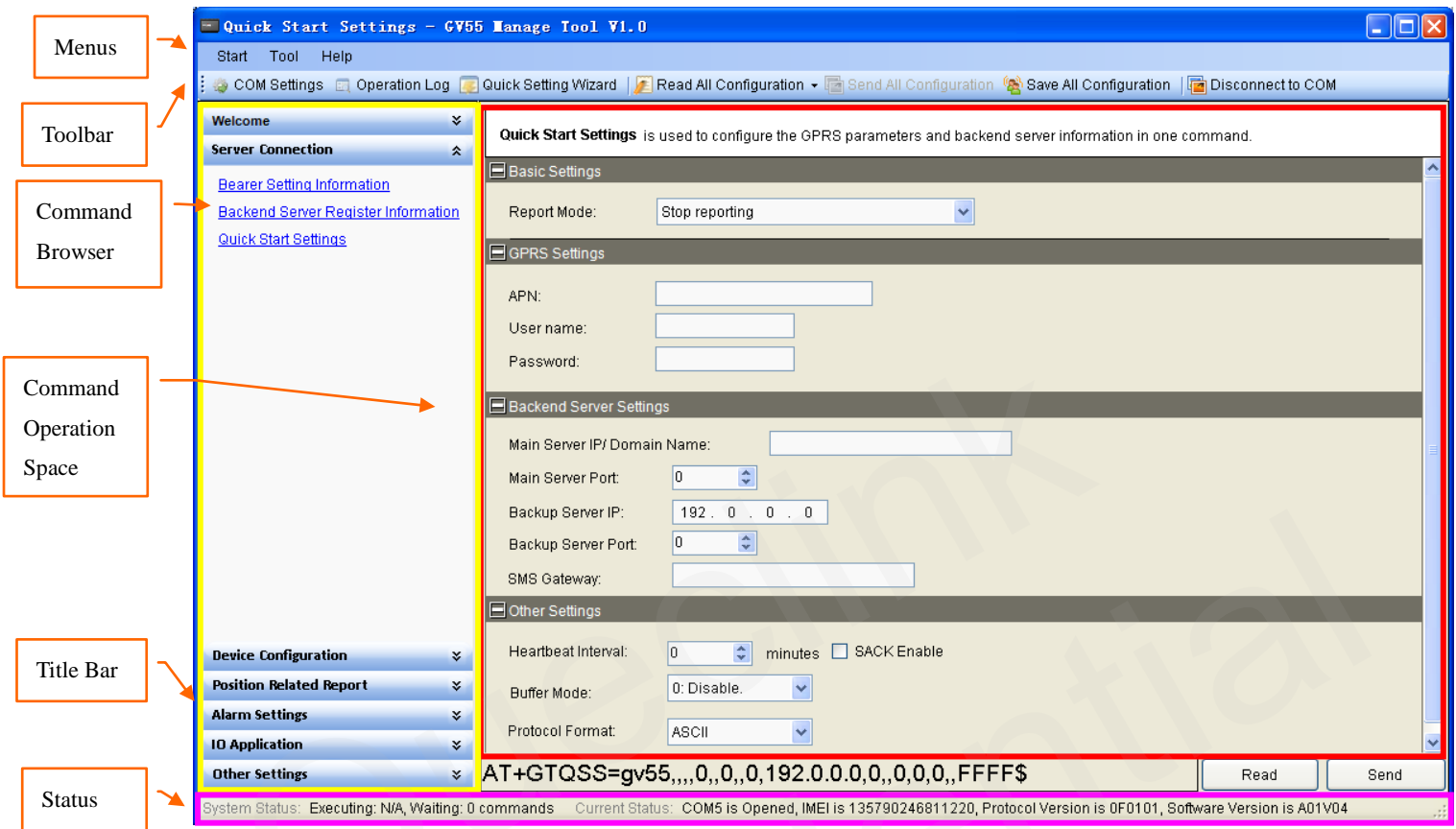
## 2.3. Quick Setting Wizard

The quick setting wizard gives a basic setting for device. If you want use more functions of GV55, please change to enter professional setting mode.

Before you enter quick setting wizard, you must make sure the COM connection is OK. Please refer chapter 3.1 for the detail of setting with quick setting wizard.



## 2.4. Professional Setting Windows



### 2.4.1. Title Bar

Title Bar indicates current operational command title and the name of manage tool.

### 2.4.2. Menus

It include “Start”, “Tool”, “Help” menu in menus.



#### 2.4.2.1 Start Menu

Start menu include “COM Settings”.

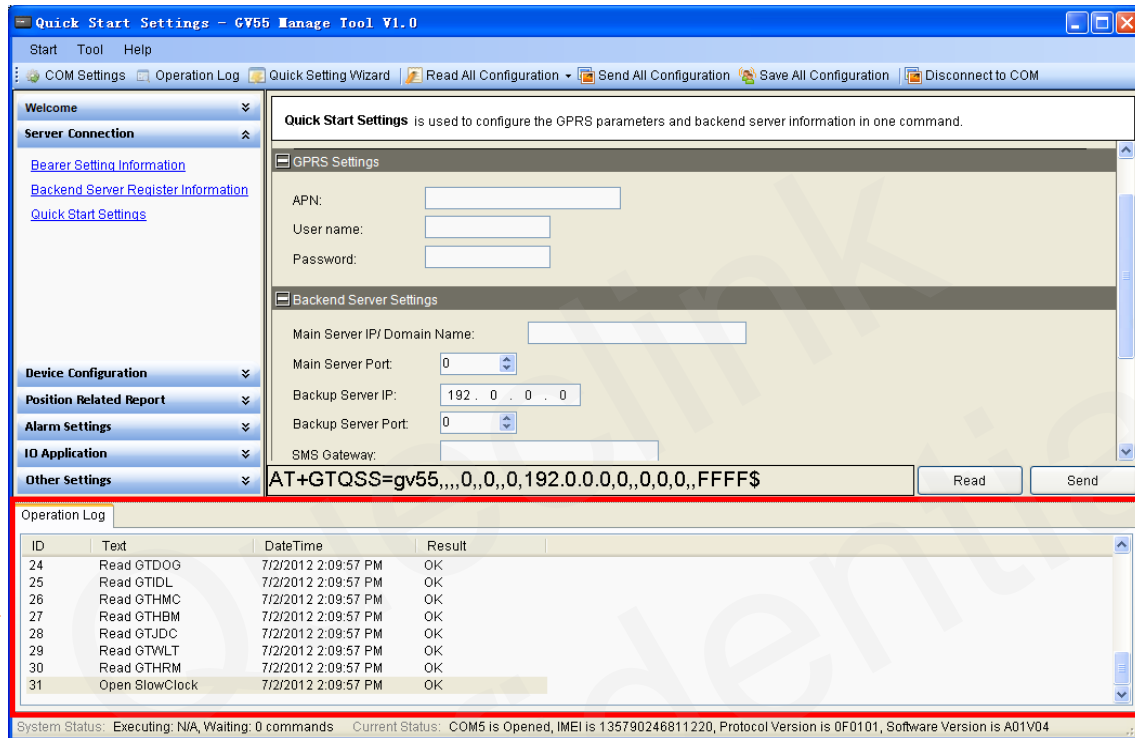
**[COM Setting]:** It is used to set the COM information and password Setting details please refer to chapter 2.2

### 2.4.2.2 Tool Menu

Tool menu include “Quick Setting Wizard”, “Operation Log”, “Options” setting.

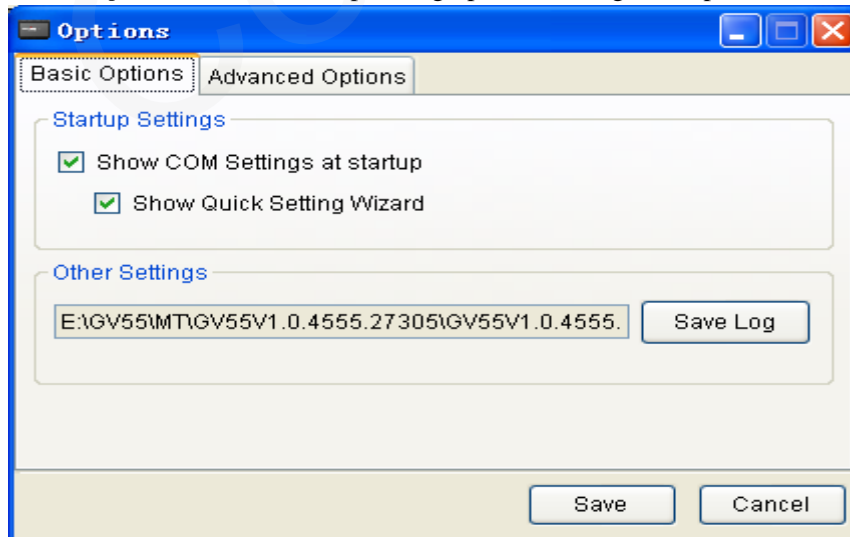
**[Quick Setting Wizard]:** It is used to open quick setting wizard directly. Please refer to chapter 3.1 for details.

**[Operation Log]:** It is used to display/hidden the operation log.



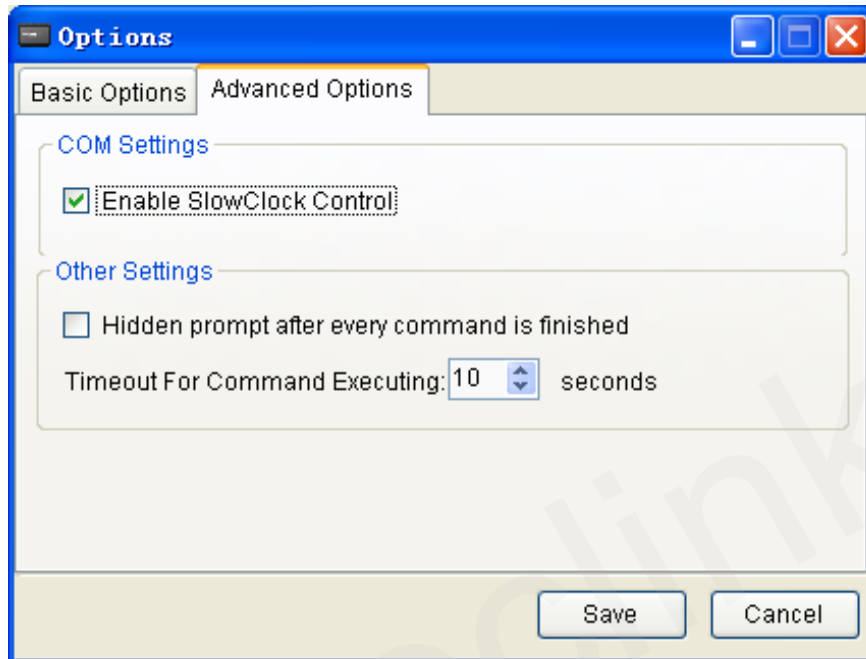
**[Options]:** It is used to set the basic setting of manage tool.

“Basic Options” include startup setting options and log save option.



“Advanced Options” include COM settings and other settings.

COM Settings is used to set COM setting. It is recommended using default setting for these settings.



### 2.4.2.3 Help Menu

[About]: Select “About”. Then the following pop up window will display.



“*Manage Tool Version*” indicates the version of this manage tool.

“*Support Version*” indicates the firmware which this manage tool used for.

“*Device Version*” indicates the firmware which connects to the PC. It is recommended using the same version of support version. If it is different between support version and device version, the new character of device can not be used in this tool.

“*Mcu Version*” indicates the device’s MCU version which connects to the PC.

“*Hw Version*” indicates the device’s HW version which connectd to the PC.

### 2.4.3. Toolbar

It include “*COM Setting*”, “*Operation Log*”, “*Quick Setting Wizard*”, “*Real All Configuration*”, “*Send All Configuration*”, “*Save All Configuration*”, “*Connect/Disconnect to COM*”.



**[COM Setting]:** It is used to set the COM information and password. Setting details please refer to chapter 2.2.

**[Operation Log]:** It is used to display/hidden operation log.

**[Quick Setting Wizard]:** It is used to open quick setting wizard directly. Please refer to chapter 3.1.1 for details.

**[Read All Configuration]:** It is used to display/hidden read and load.



“*Read From Device*”: It is used to read all configurations (except command GTOUT and GTRTO) from device which connects to PC.

“*Load Configuration From File*”: It is used to load configuration file to the manage tool.

**[Send All Configuration]:** It is used to send all configurations (except command GTBSI, GTSRI, GTRTO) in Command Operation Space.

**[Save All Configuration]:** It is used to save all configurations in Command Operation Space to file.

**[Connect/Disconnect to COM]:** It is used to Connect/Disconnect to COM manually.

## 2.4.4. Status Bar

System Status: Executing: N/A, Waiting: 0 commands Current Status: COM5 is Opened, IMEI is 135790246811220, Protocol Version is 0F0101, Software Version is A01V04

There is system status and current status in status bar.

**[System Status]:** It indicates the count of commands which are waiting and executing to set.

**[Current Status]:** It indicates current COM status, IMEI, protocol version and software version which read from device.

## 2.4.5. Command Brower and Command Operation Space

This area is mainly read and set parameters of device.

### 2.4.5.1 Command Brower

Command Brower separates all @track protocol command to several parts. Click Function in command Brower, reference parameters of this command will be shown in command operation space.

Command Brower	Function Description	Relative Command
Server Connection	Bearer Setting Information	GTBSI
	Backend Server Register Information	GTSRI
	Quick Start Settings	GTQSS
Device Configuration	Global Configuration	GTCFG
	Auto-Unlock PIN	GTPIN
	Software Protocol Watchdog	GTDOG
	Outside Working Hours	GTOWH
	Time Adjustment	GTTMA
	Jamming Detection Configuration	GTJDC
	Hex Report mask	GTHRM
	Preserve special device logical state	GTPDS
Position Related Report	Fixed Report Information	GTFRI
Alarm Setting	Geo-Fence Configuration	GTGEO
	Tow Alarm Configuration	GTTOW
	Speed Alarm	GTSPD
	SOS Alarm	GTSOS
	Excessive Idling Detection	GTIDL
	Harsh Behavior Monitoring	GTHBM
	Buzzer Alarm Definition	GTBZA
	Over Speed Alarm	GTSPA
Start Stop Report	GTSSR	
IO Application	Digital Output Port Setting	GTOUT

	External Power Supply Monitoring	GTEPS
	Digital Input Port Setting	GTDIS
	Input/Output Port Binding	GTIOB
Other Settings	Hour Meter Counter	GTHMC
	Real Time Operation	GTRTO
	White List	GTWLT
	Crash Detection	GTCRA

### 2.4.5.2 Command Operation Space

**Command Description**

**Quick Start Settings** is used to configure the GPRS parameters and backend server information in one command.

It is suggest to set heartbeat interval in TCP long-connection mode. And the backend server should respond heartbeat data(+SACK:GTHBD) to unit.

**Parameters Area**

**GPRS Settings**

APN: cmnet

User name:

Password:

**Backend Server Settings**

Main Server IP/ Domain Name: 116.228.146.250

Main Server Port: 8118

Backup Server IP: 192 . 0 . 0 . 0

Backup Server Port: 0

SMS Gateway:

**Other Settings**

Heartbeat Interval: 0 minutes  SACK Enable

Buffer Mode: 2: High priority.

Protocol Format: ASCII

**Command Display**

AT+GTQSS=gv55,cmnet,,3,,2,116.228.146.250,8118,192.0.0.0,0,,0, (Read Send)

**[Command Description]:** There is a short description for reference command.

**[Parameters Area]:** Set/Read parameters of this command in this area.

**[Command Display]:** Command with parameters in parameters area display in this area.

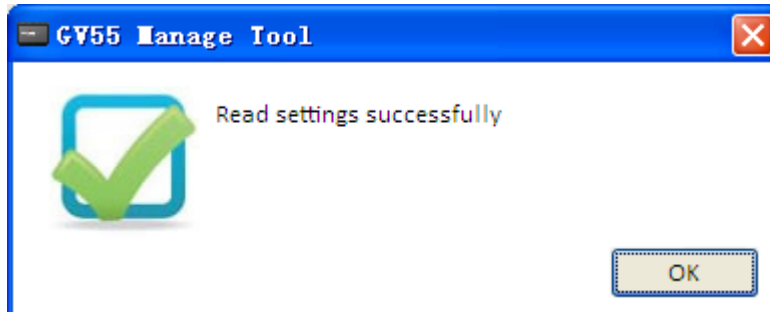
**[Read]:** Click this button to read this command from device.

**[Send]:** Click this button to send this command to device.

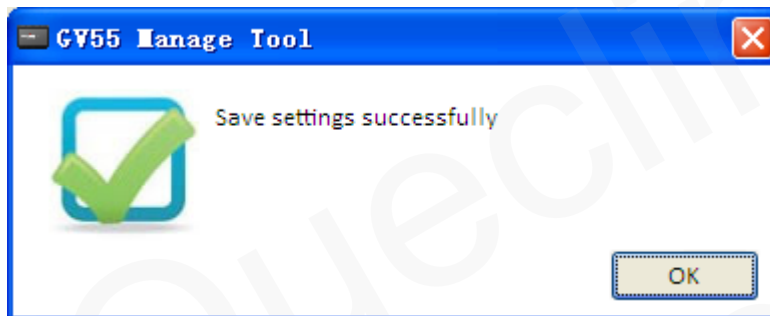
## 2.5. Operation Result Interface

### 2.5.1. Operation Successfully Interface

Command read OK.

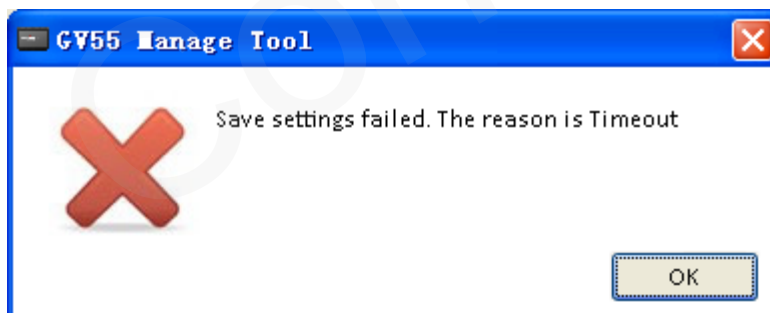


Command send OK.

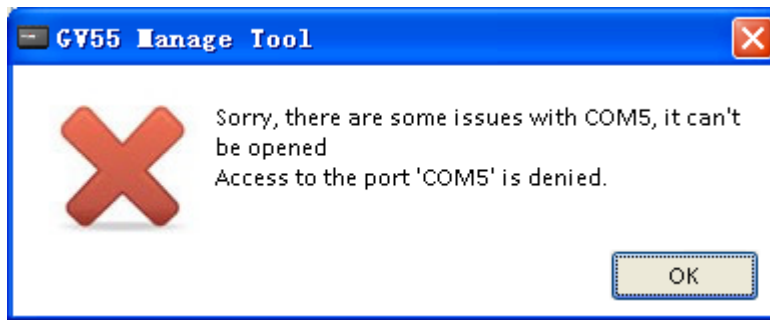


### 2.5.2. Operation Failed Interface

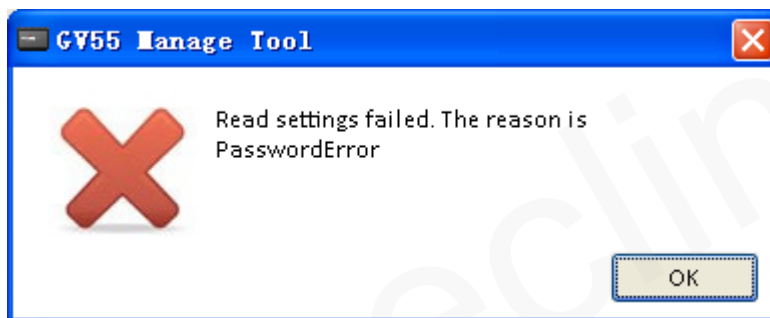
There should be COM port connection problem if the fail reason is timeout.



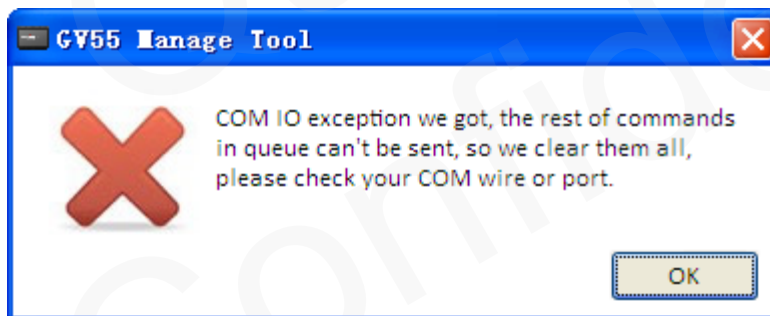
There should be COM port is occupied. Please close all other COM-related applications.



Please change to correct device password if Password Error.



There are some issues with this com, please check your com wire or port.



## 3. Operation Instruction

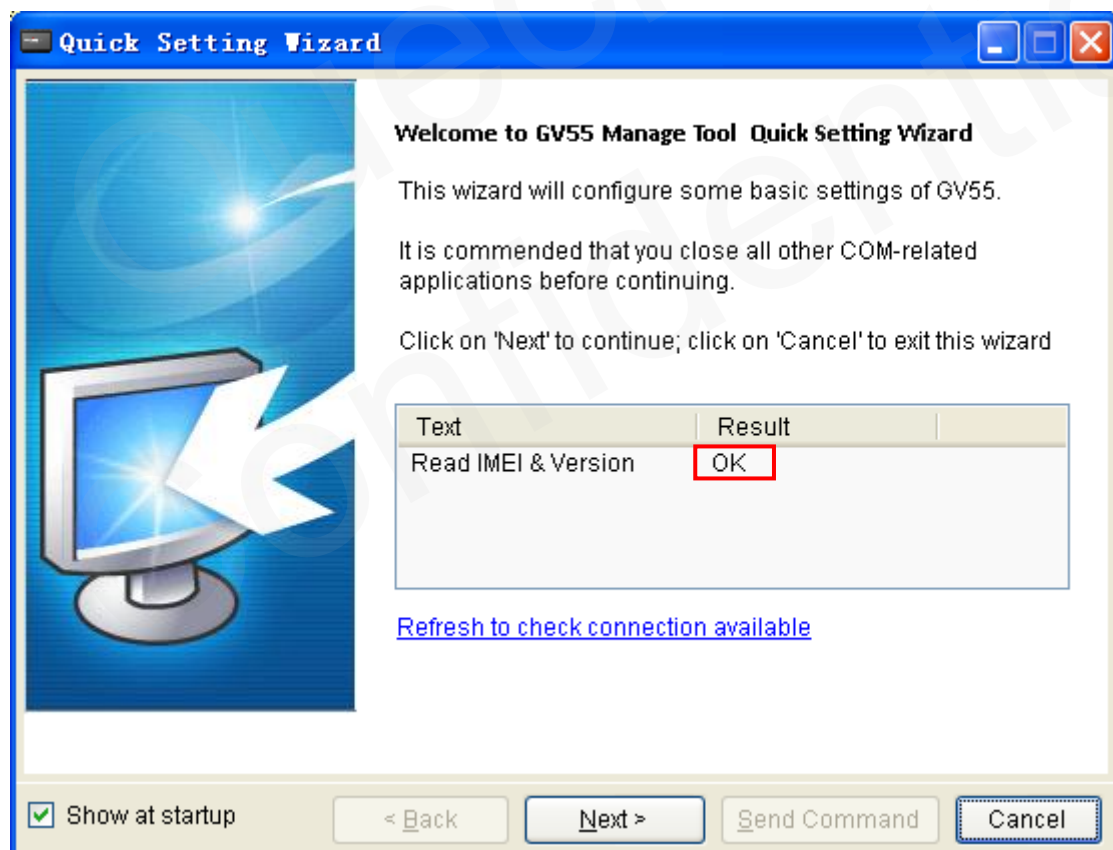
### 3.1. Device Configuration with Quick Setting Wizard

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to “GV55 @Track Air Interface Protocol” for detail.

The quick setting wizard gives a basic setting for device. If you want use more functions of GV55, please change to professional setting mode.

#### 3.1.1. Welcome to Quick Setting Wizard

Click “*Quick Setting Wizard*” in toolbar, open quick setting wizard. If the “Result” in this window is OK, click “*Next*”. If the “Result” is not OK, please check the COM port connection till the result is OK.

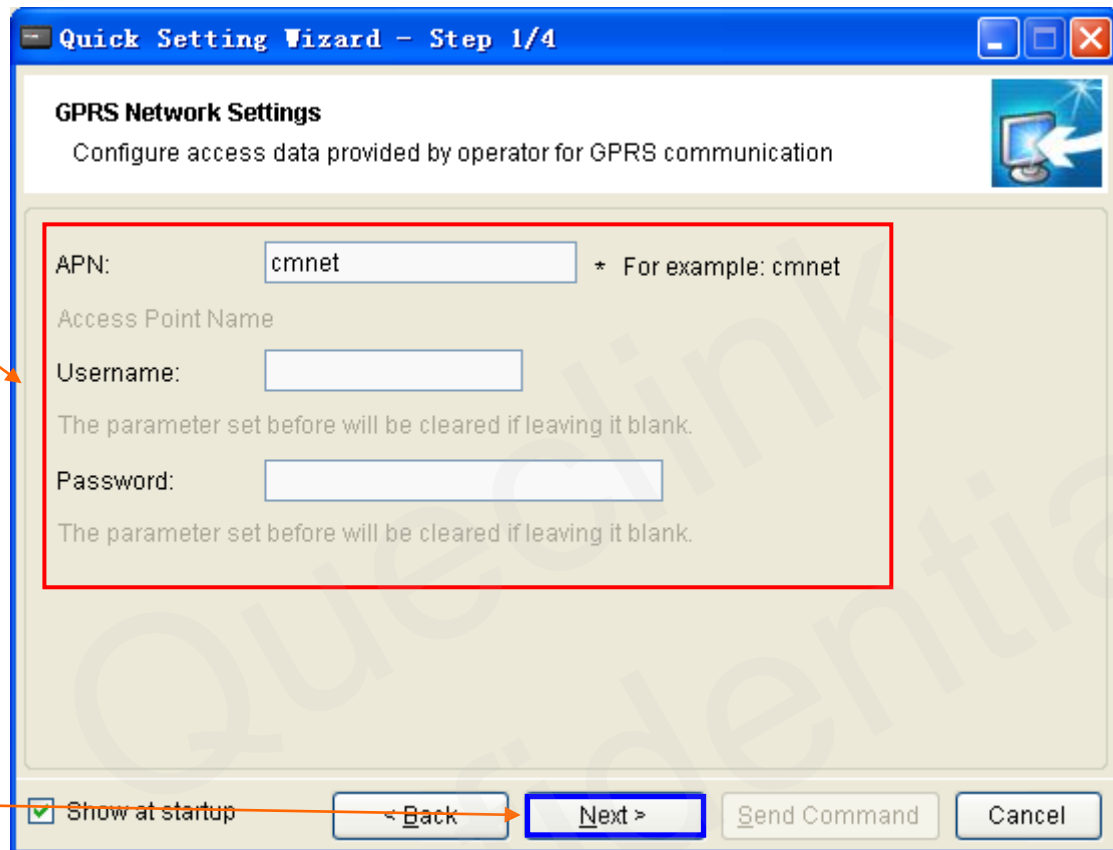


Welcome to Quick Setting Wizard

### 3.1.2. GPRS Network Setting

Step\_1: Set APN, APN user name and password in this window. The meaning of these parameters, please refer to the “GV55 @Track Air Interface Protocol” for detail.

Step\_2: Then click “Next”.



Quick Setting Wizard - Step 1/4

**GPRS Network Settings**  
Configure access data provided by operator for GPRS communication

APN:  \* For example: cmnet  
Access Point Name

Username:

The parameter set before will be cleared if leaving it blank.

Password:

The parameter set before will be cleared if leaving it blank.

Show at startup

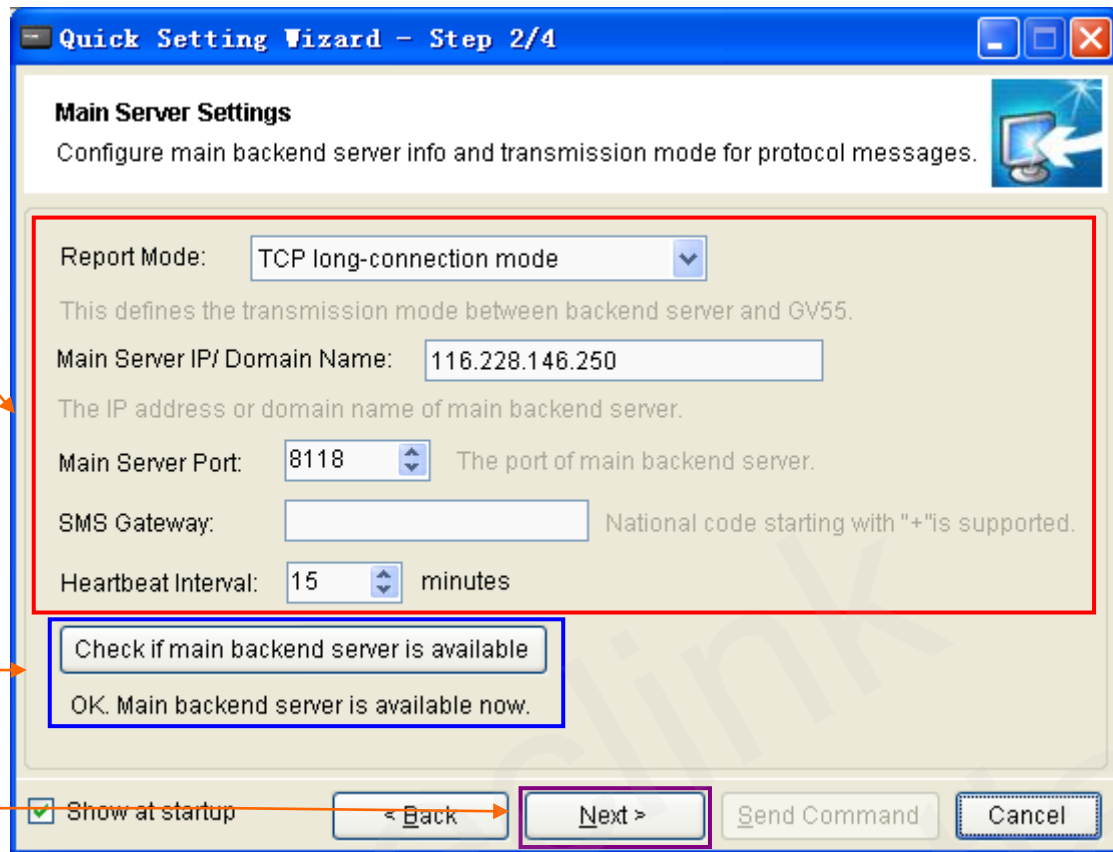
< Back    **Next >**    Send Command    Cancel

### 3.1.3. Main Server Setting

Step\_1: Set report mode, main server, main server port, and SMS gateway in this window. The meaning of these parameters, please refer to the “GV55 @Track Air Interface Protocol” for detail.

Step\_2: Click “Check if main backend server is available” to check if main server IP and port is valid in network. If the result is ERROR, please check the server connection. You can not get report from server if the server connection has problem.

Step\_3: Click “Next”.



**Quick Setting Wizard - Step 2/4**

**Main Server Settings**  
Configure main backend server info and transmission mode for protocol messages.

Report Mode: TCP long-connection mode

This defines the transmission mode between backend server and GV55.

Main Server IP/ Domain Name: 116.228.146.250  
The IP address or domain name of main backend server.

Main Server Port: 8118 The port of main backend server.

SMS Gateway: National code starting with "+" is supported.

Heartbeat Interval: 15 minutes

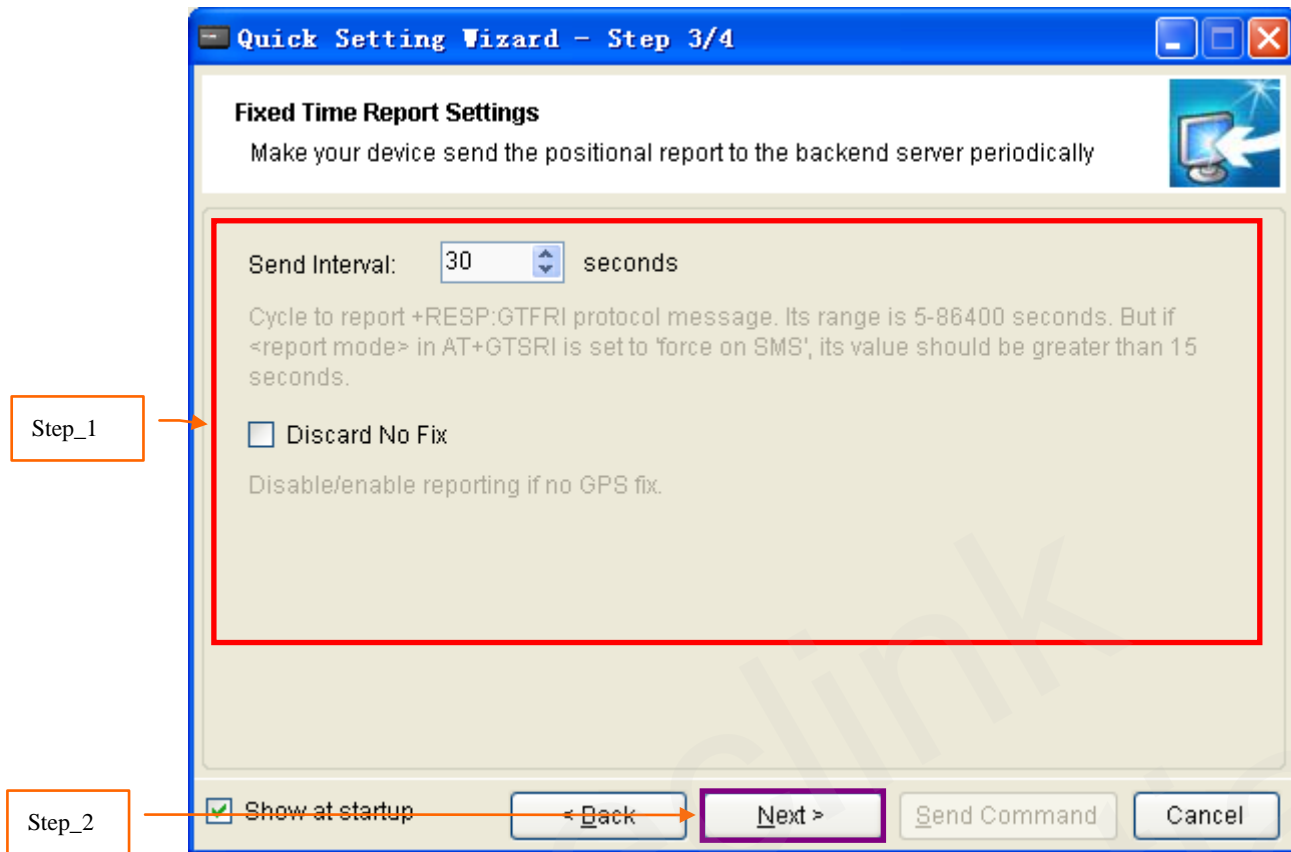
Check if main backend server is available  
OK. Main backend server is available now.

Show at startup    < Back    Next >    Send Command    Cancel

### 3.1.4. Fixed Time Report Setting

Step\_1: Set send interval, discard no fix in this window. The meaning of these parameters, please refer to the "GV55 @Track Air Interface Protocol" for detail.

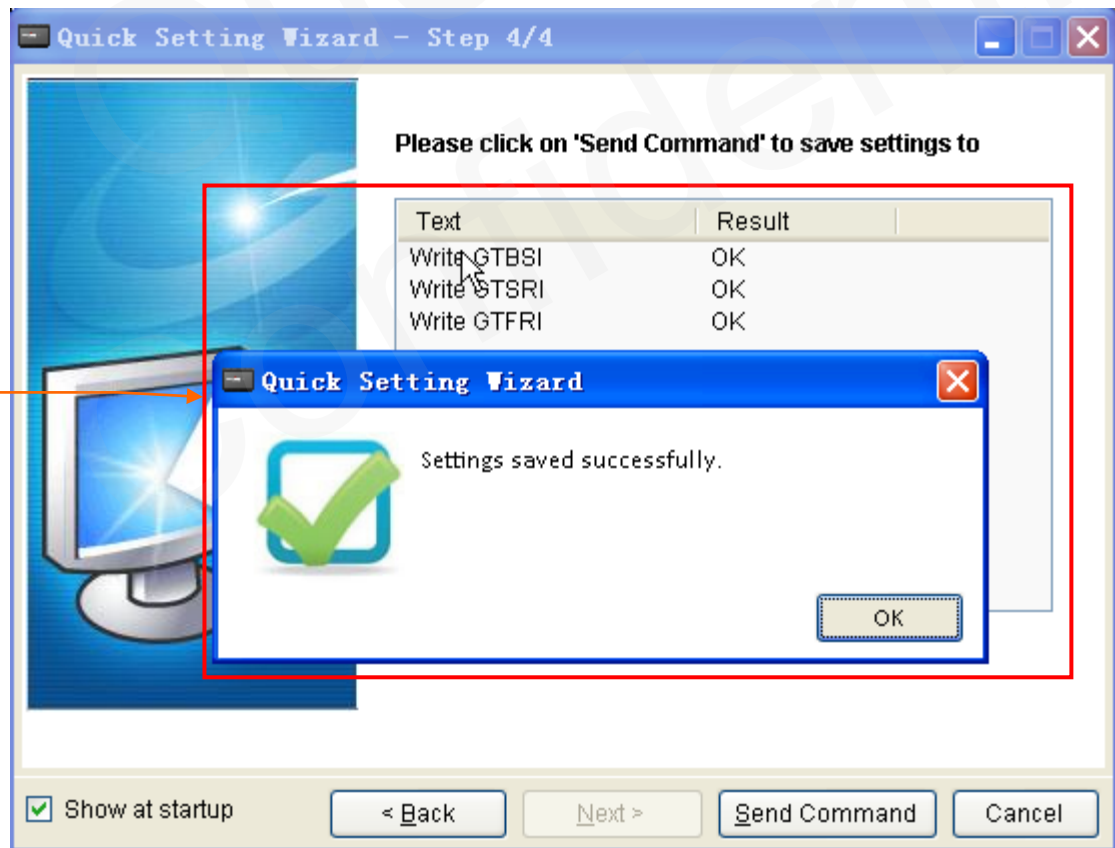
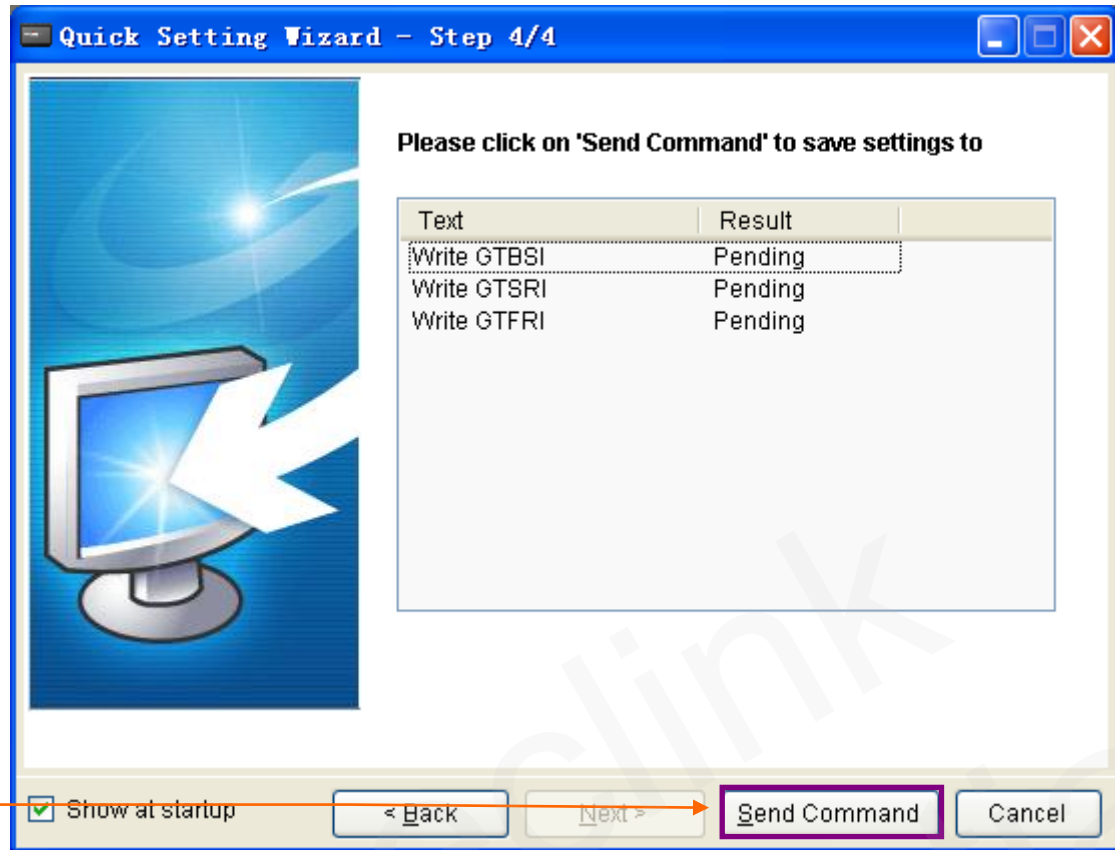
Step\_2: Click "Next".



### 3.1.5. Send Command to Device

Step\_1: Click “Send Command”. Command *GTBSI*, *GTSRI*, and *GTFRI* will send to device.

Step\_2: If the settings download successfully, the result returns OK. Click “OK”, the result windows closed. Quick setting is completed.

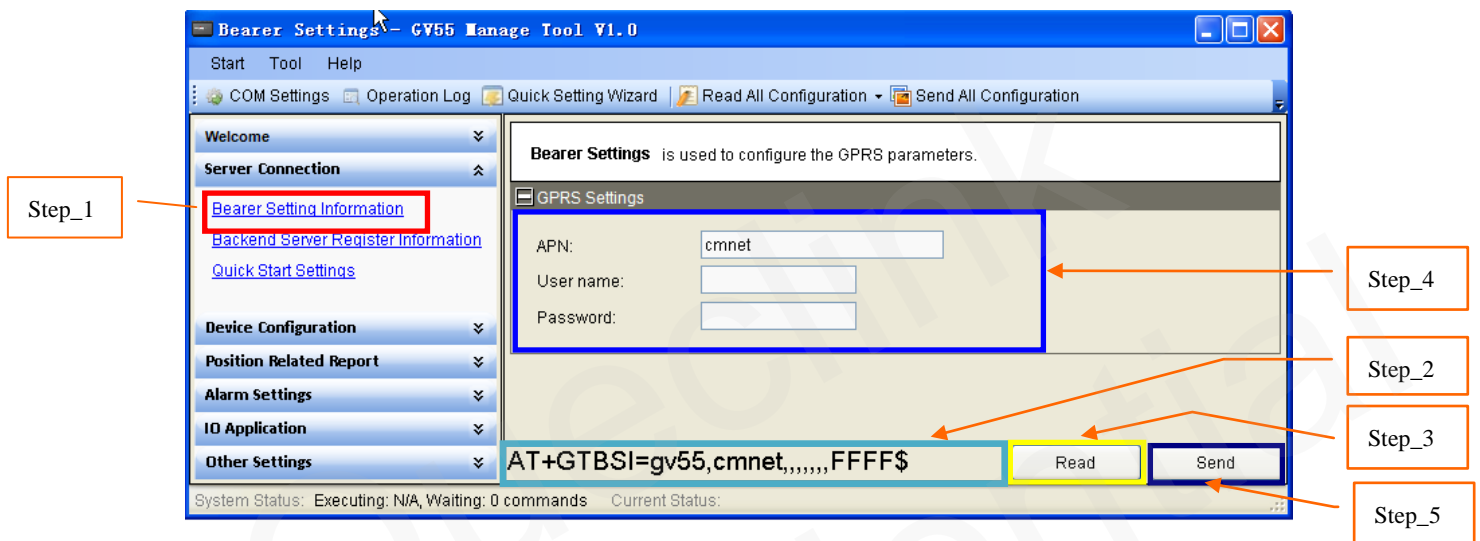


## 3.2. Device Configuration in Professional Setting Mode

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to “GV55 @Track Air Interface Protocol” for detail.

Following is a general procedure to configure GV55 with manage tool.

### 3.2.1. Set the parameters of bearer setting information



**Step\_1:** Select “*Bearer Setting Information*”, after that the parameters of GTBSI show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set APN parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTBSI to GV55.

### 3.2.2. Set the parameters of backend server register information

**Step\_1:** Select “*Backend Server Register Information*”, after that the parameters of GTSRI show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set backend server information parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTSRI to GV55.

### 3.2.3. Set the parameters of quick start setting

**Step\_1:** Select “Quick Start Settings”, after that the parameters of GTQSS show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

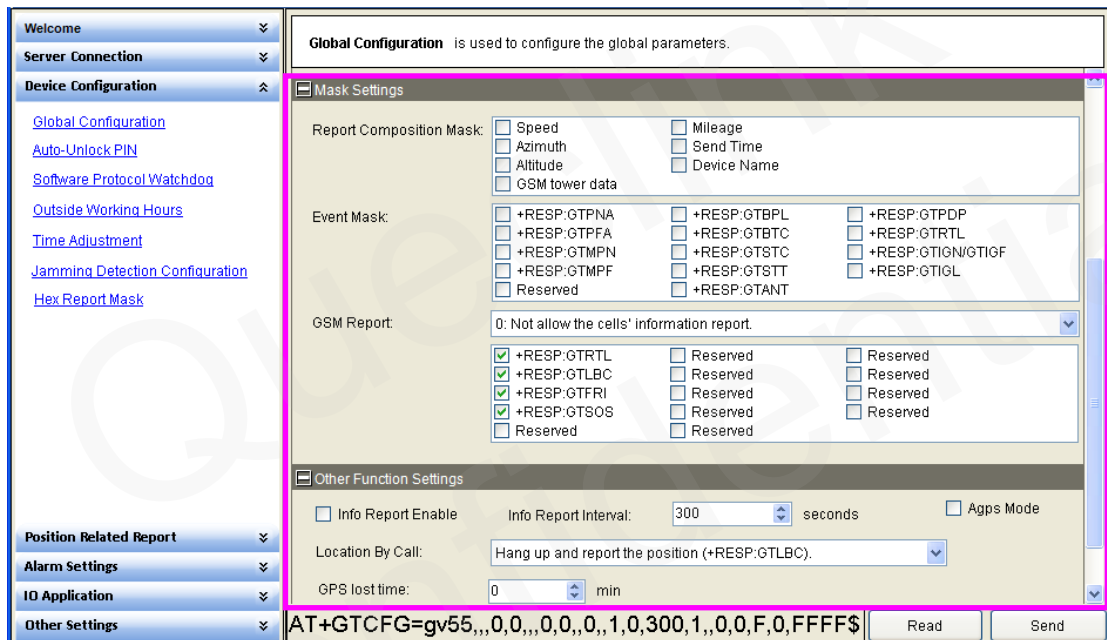
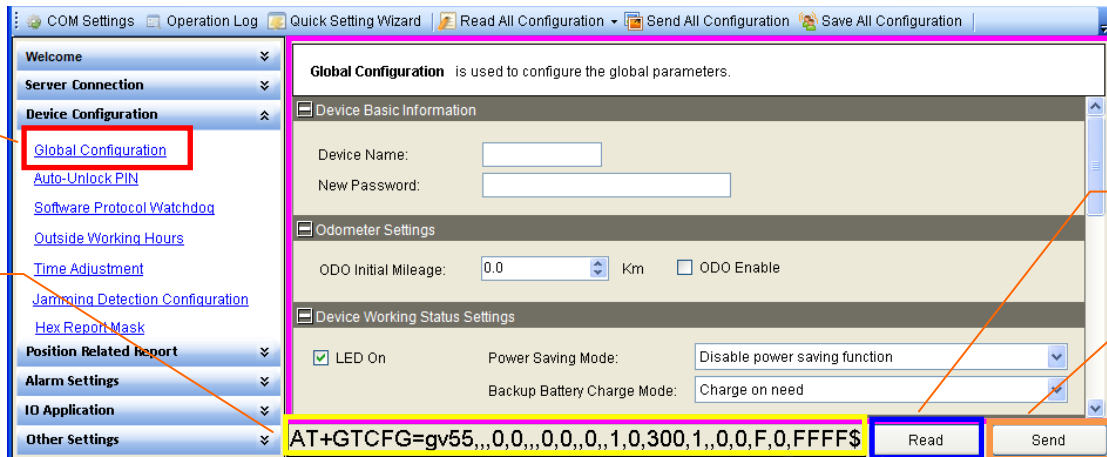
**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the GPRS and backend server information parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTQSS to GV55.

**Note:** The parameters of GTSRI and GTBSI will be changed when change the parameters of GTQSS.

### 3.2.4. Set the parameters of global configuration



**Step\_1:** Select “Global Configuration”, after that the parameters of GTCFG show in Command Operation Space.

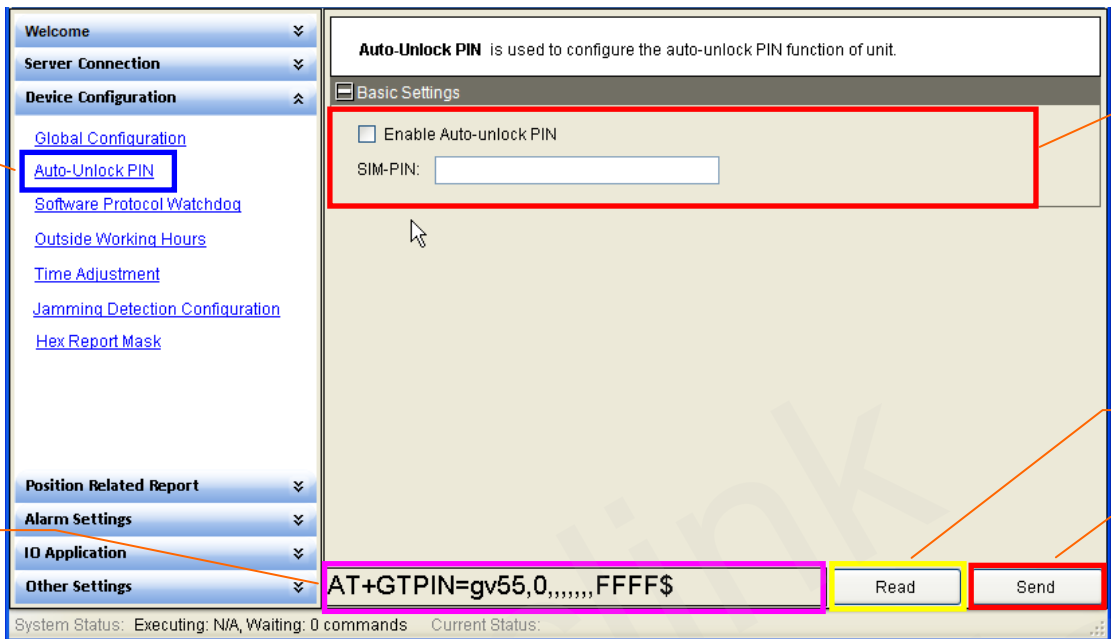
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the global parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTCFG to GV55.

### 3.2.5. Set the parameters of auto-unlock PIN



The screenshot shows the 'Auto-Unlock PIN' configuration page. The left sidebar has 'Auto-Unlock PIN' selected. The main area shows 'Basic Settings' with an 'Enable Auto-unlock PIN' checkbox and a 'SIM-PIN' input field. At the bottom, a command 'AT+GTPIN=gv55,0,,,,,,FFFF\$' is displayed in a text box, with 'Read' and 'Send' buttons to its right. The status bar at the bottom indicates 'System Status: Executing: N/A, Waiting: 0 commands Current Status:'.

**Step\_1:** Select “Auto-Unlock-PIN”, after that the parameters of GTPIN show in Command Operation Space.

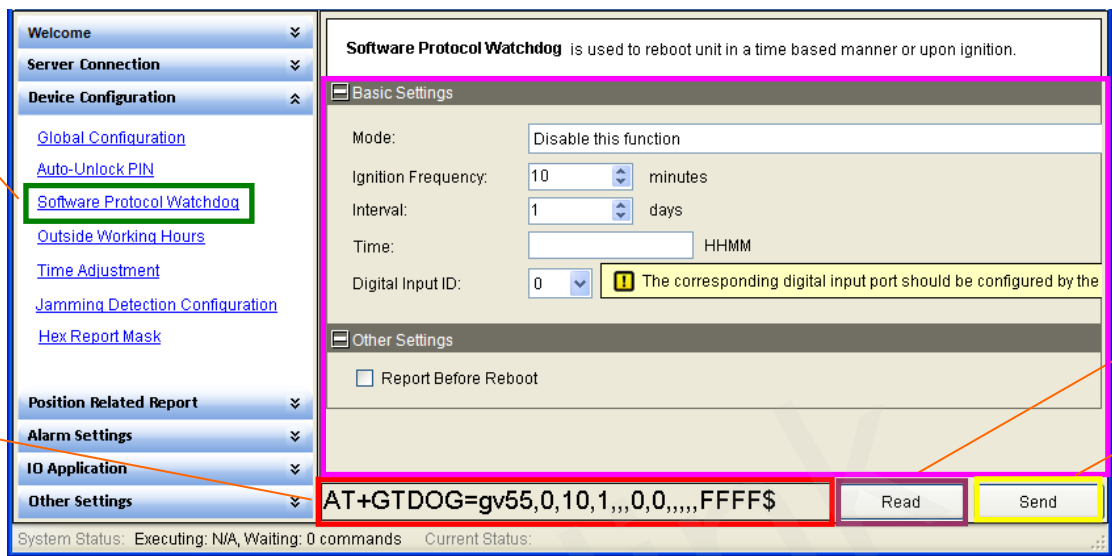
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the auto-unlock PIN parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTPIN to GV55.

### 3.2.6. Set the parameters of protocol watchdog



The screenshot shows the 'Software Protocol Watchdog' configuration page. The left sidebar has 'Software Protocol Watchdog' selected. The main area shows 'Basic Settings' with fields for Mode (Disable this function), Ignition Frequency (10 minutes), Interval (1 days), Time (HHMM), and Digital Input ID (0). A warning icon indicates that the digital input port should be configured. The 'Other Settings' section has a 'Report Before Reboot' checkbox. At the bottom, a command input field contains 'AT+GTDog=gv55,0,10,1,,,0,0,,,,FFFF\$' and 'Read' and 'Send' buttons.

**Step\_1:** Select “*Software Protocol Watchdog*”, after that the parameters of GTDOG show in Command Operation Space.

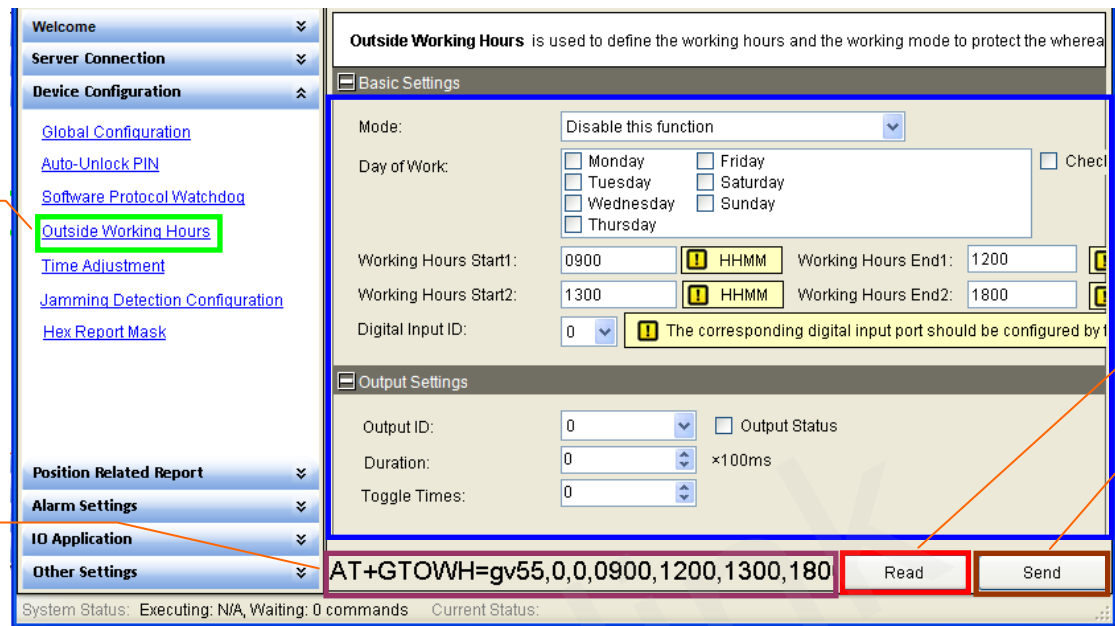
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the software protocol watchdog parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTDOG to GV55.

### 3.2.7. Set the parameters of outside working hours



The screenshot shows the 'Outside Working Hours' configuration page. The left sidebar has 'Outside Working Hours' highlighted. The main area is divided into 'Basic Settings' and 'Output Settings'. The 'Basic Settings' section includes a 'Mode' dropdown set to 'Disable this function', a 'Day of Work' section with checkboxes for days of the week, and 'Working Hours Start1' and 'Working Hours End1' fields set to 0900 and 1200 respectively. The 'Output Settings' section includes 'Output ID' (0), 'Duration' (0), and 'Toggle Times' (0). At the bottom, the command field contains 'AT+GTOWH=gv55,0,0,0900,1200,1300,1800' and the 'Read' and 'Send' buttons are visible.

**Step\_1:** Select “*Outside Working Hours*”, after that the parameters of GTOWH show in Command Operation Space.

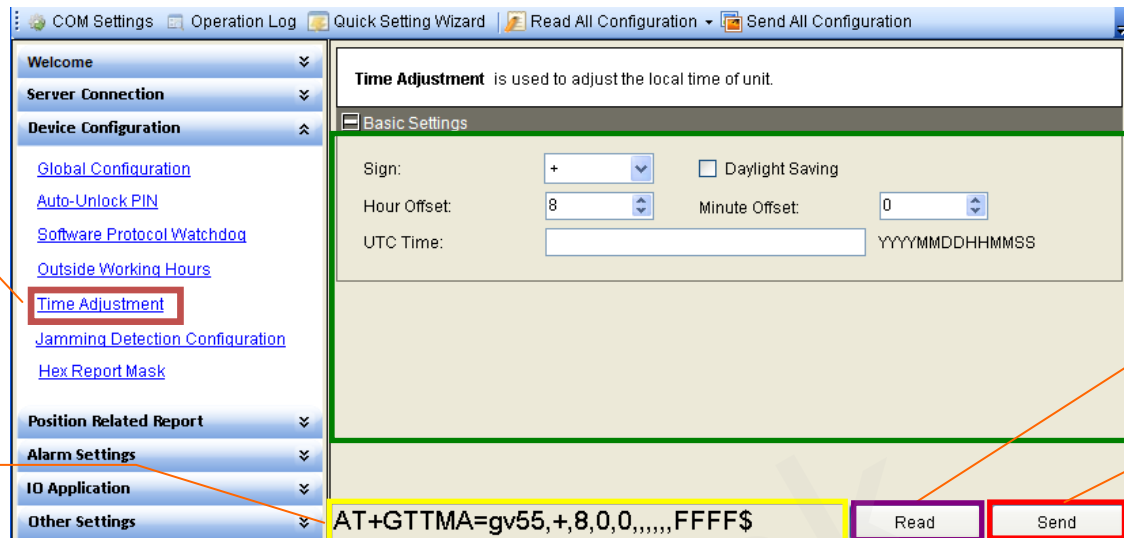
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the outside working hours parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTOWH to GV55.

### 3.2.8. Set the parameters of time adjustment



**Step\_1:** Select “Time Adjustment”, after that the parameters of GTTMA show in Command Operation Space.

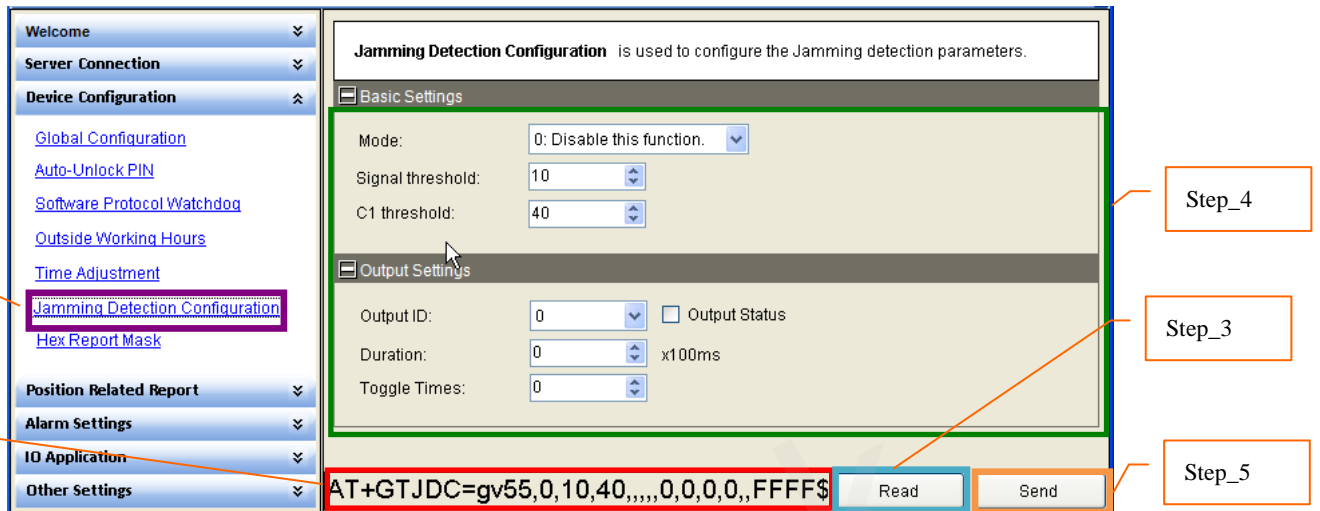
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the time adjustment parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTTMA to GV55.

### 3.2.9. Set the parameters of jamming detection



The screenshot shows the 'Jamming Detection Configuration' interface. The left sidebar has 'Jamming Detection Configuration' highlighted. The main area shows 'Basic Settings' with 'Mode' set to '0: Disable this function.', 'Signal threshold' at 10, and 'C1 threshold' at 40. The 'Output Settings' section shows 'Output ID' at 0, 'Duration' at 0 x100ms, and 'Toggle Times' at 0. The command field at the bottom contains 'AT+GTJDC=gv55,0,10,40,,,,,0,0,0,0,,FFFF\$'. The 'Read' and 'Send' buttons are visible at the bottom right.

**Step\_1:** Select “*Jamming Detection Configuration*”, after that the parameters of GTJDC show in Command Operation Space.

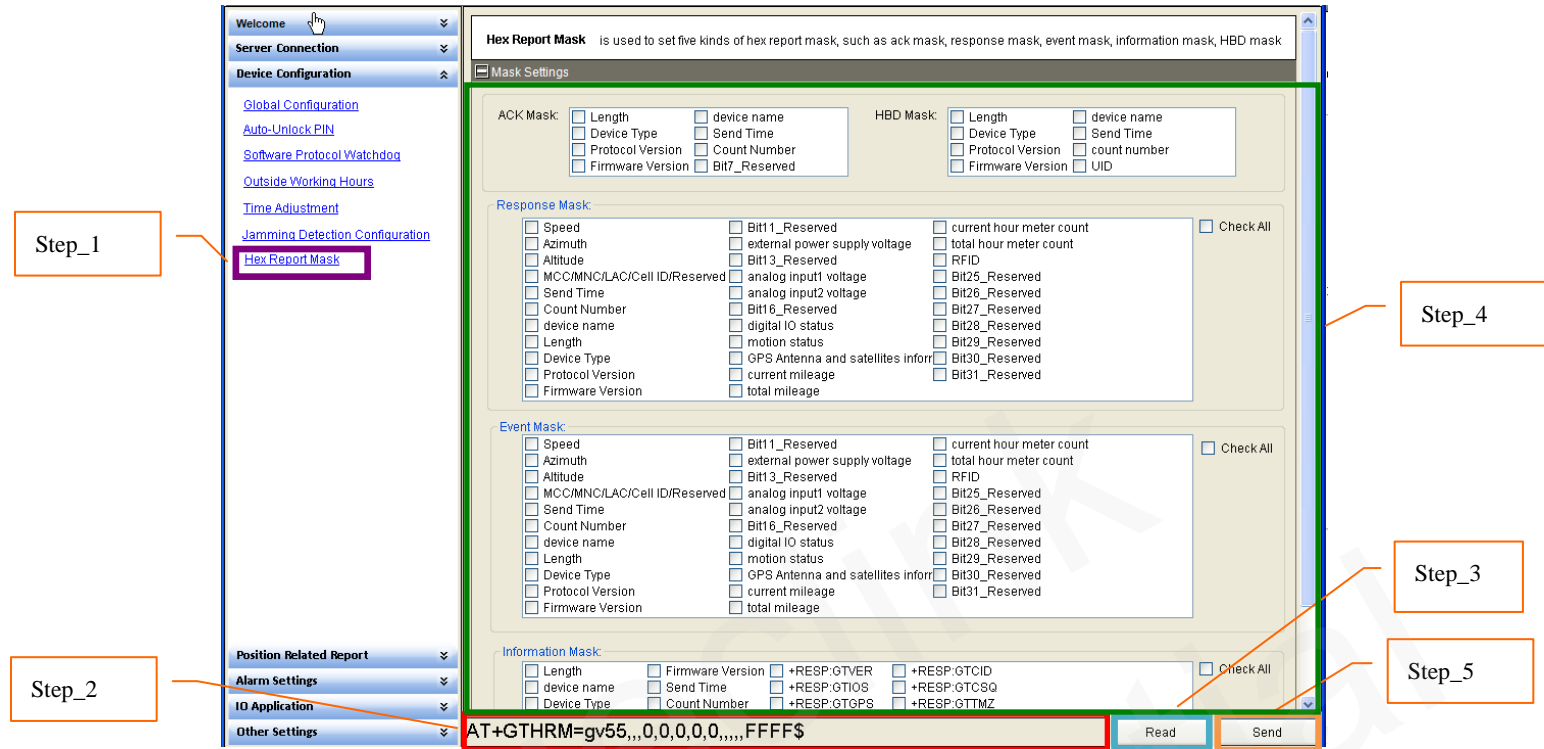
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the jamming detection parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTJDC to GV55.

### 3.2.10. Set the parameters of hex report mask setting



**Step\_1:** Select “Hex Report Mask”, after that the parameters of GTHRM show in Command Operation Space.

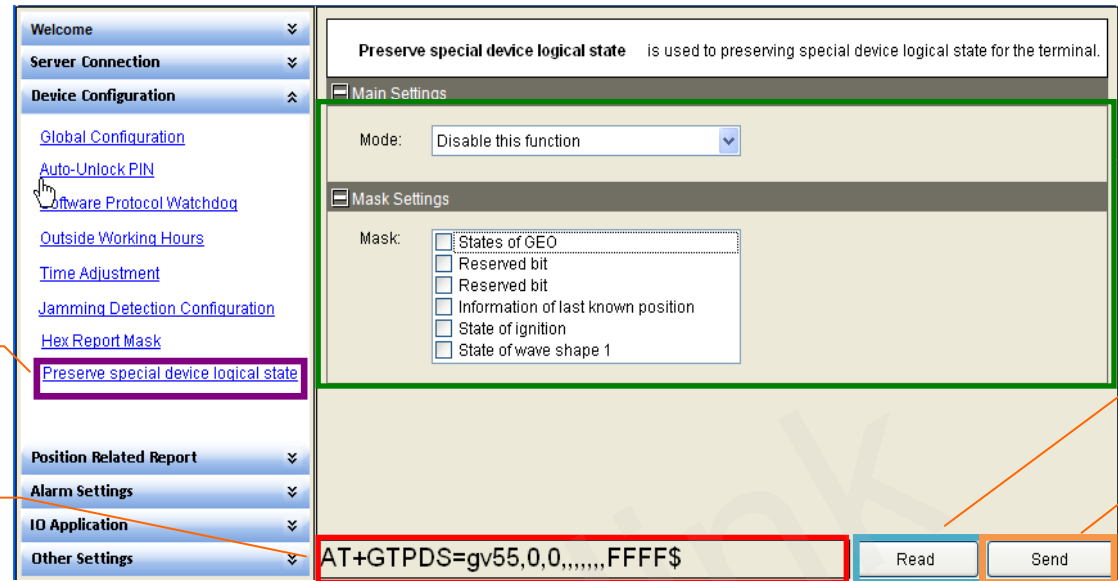
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the hex report mask parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTHRM to GV55.

### 3.2.11. Set the parameters of Preserve special device logical state



The screenshot shows the 'Preserve special device logical state' configuration page. The left sidebar contains a navigation tree with 'Device Configuration' expanded to show 'Preserve special device logical state'. The main content area has a title bar with the text 'Preserve special device logical state is used to preserving special device logical state for the terminal.' Below this are two sections: 'Main Settings' with a 'Mode' dropdown set to 'Disable this function', and 'Mask Settings' with a 'Mask' list containing several checkboxes: 'States of GEO', 'Reserved bit', 'Reserved bit', 'Information of last known position', 'State of ignition', and 'State of wave shape 1'. At the bottom, a command input field contains 'AT+GTPDS=gv55,0,0,,,,,FFFF\$' and 'Read' and 'Send' buttons.

**Step\_1:** Select “*Preserve special device logical state*”, after that the parameters of GTPDS show in Command Operation Space.

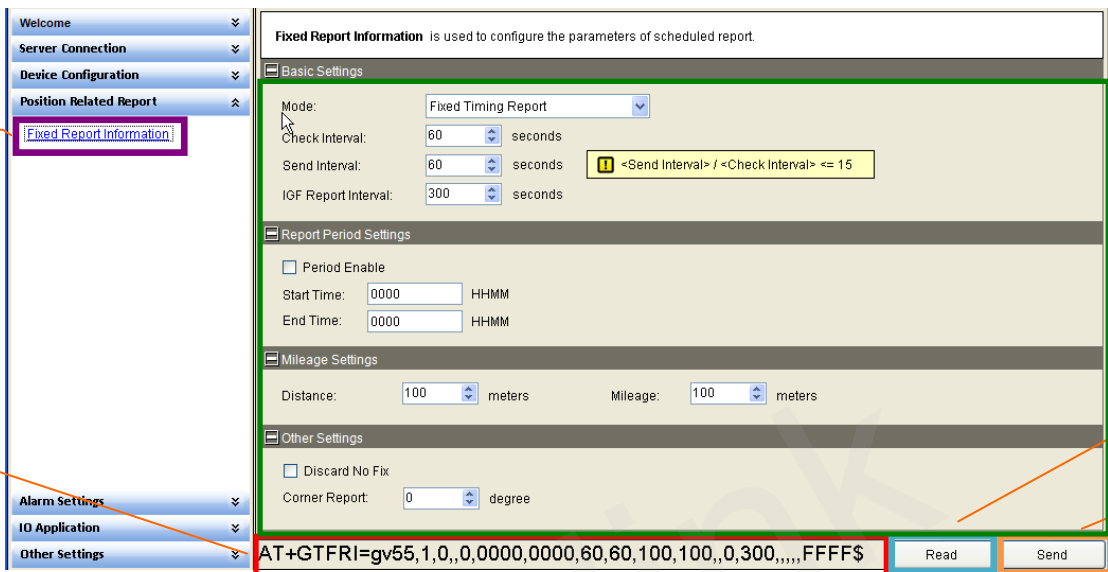
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the preserve special device logical state parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTPDS to GV55.

### 3.2.12. Set the parameters of fixed report information



**Step\_1:** Select “*Fixed Report Information*”, after that the parameters of GTFRI show in Command Operation Space.

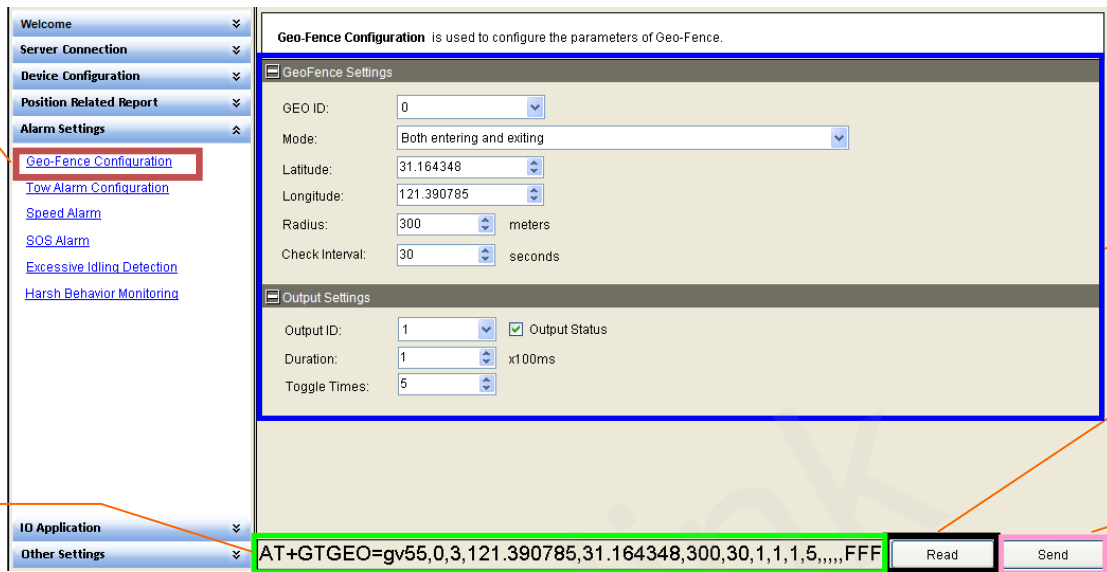
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the scheduled report parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTFRI to GV55.

### 3.2.13. Set the parameters of Geo-fence information



**Step\_1:** Select “Geo-Fence Configuration”, after that the parameters of GTGEO show in Command Operation Space.

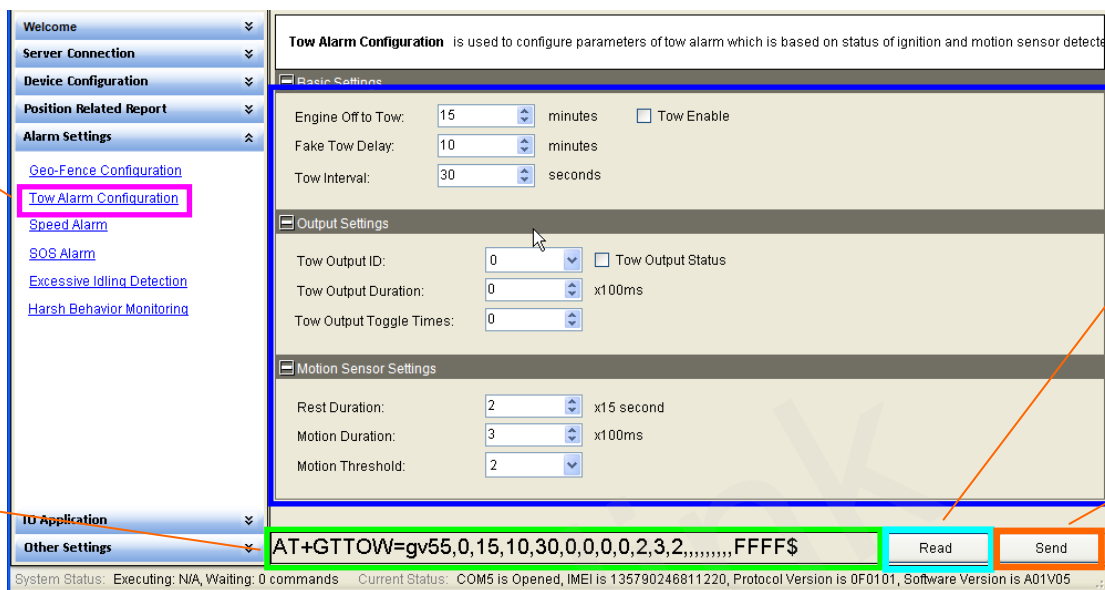
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the Geo-Fence parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTGEO to GV55.

### 3.2.14. Set the parameters of tow alarm configuration



**Step\_1** points to the **Tow Alarm Configuration** option in the left sidebar.

**Step\_2** points to the command input field containing `AT+GTTOW=gv55,0,15,10,30,0,0,0,0,2,3,2,,,,,,,,,FFFF$`.

**Step\_3** points to the **Read** button.

**Step\_4** points to the **Basic Settings** section of the configuration.

**Step\_5** points to the **Send** button.

**Step\_1:** Select “*Tow Alarm Configuration*”, after that the parameters of GTTOW show in Command Operation Space.

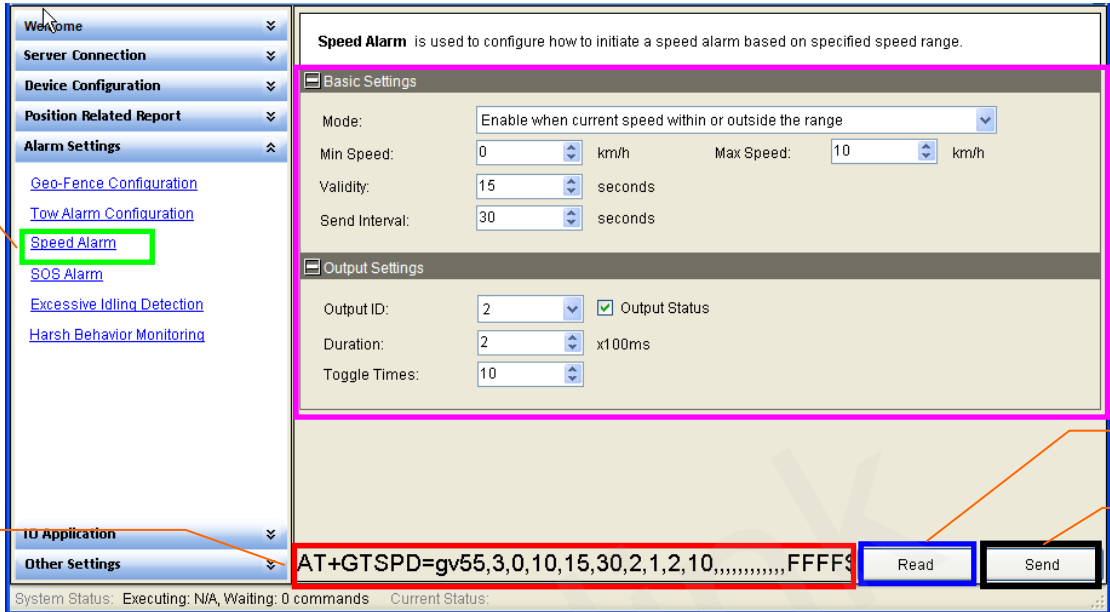
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the tow alarm parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTTOW to GV55.

### 3.2.15. Set the parameters of speed alarm



**Step\_1:** Select “*Speed Alarm*”, after that the parameters of GTSPD show in Command Operation Space.

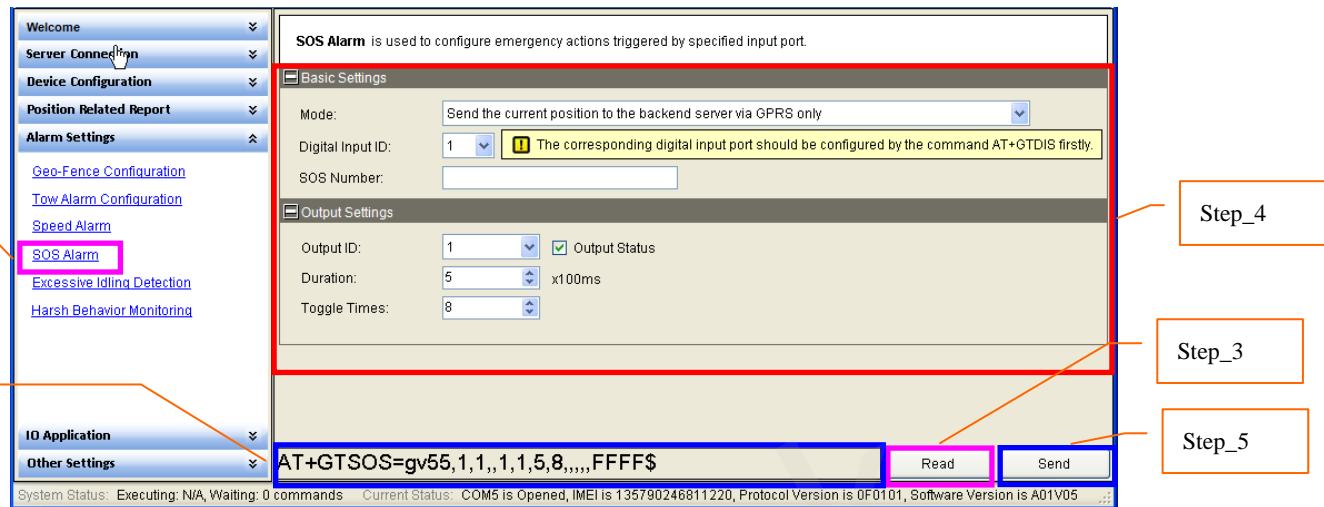
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the speed alarm parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTSPD to GV55.

### 3.2.16. Set the parameters of SOS function



**Step\_1:** Select “SOS Alarm”, after that the parameters of GTSOS show in Command Operation Space.

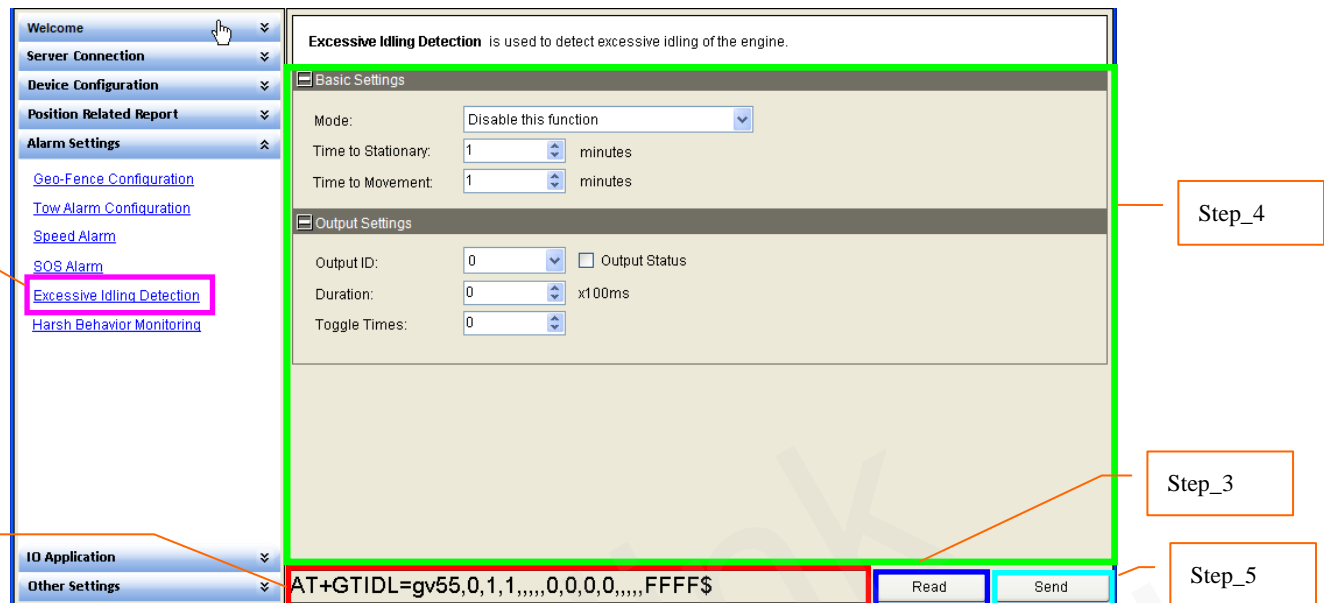
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the SOS alarm parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTSOS to GV55.

### 3.2.17. Set the parameters of excessive idling detection



**Step\_1:** Select “*Excessive Idling Detection*”, after that the parameters of GTIDL show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the excessive idling parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTIDL to GV55.

### 3.2.18. Set the parameters of harsh behavior monitoring

**Step\_1:** Select “*Harsh Behavior Monitoring*”, after that the parameters of GTHBM show in Command Operation Space.

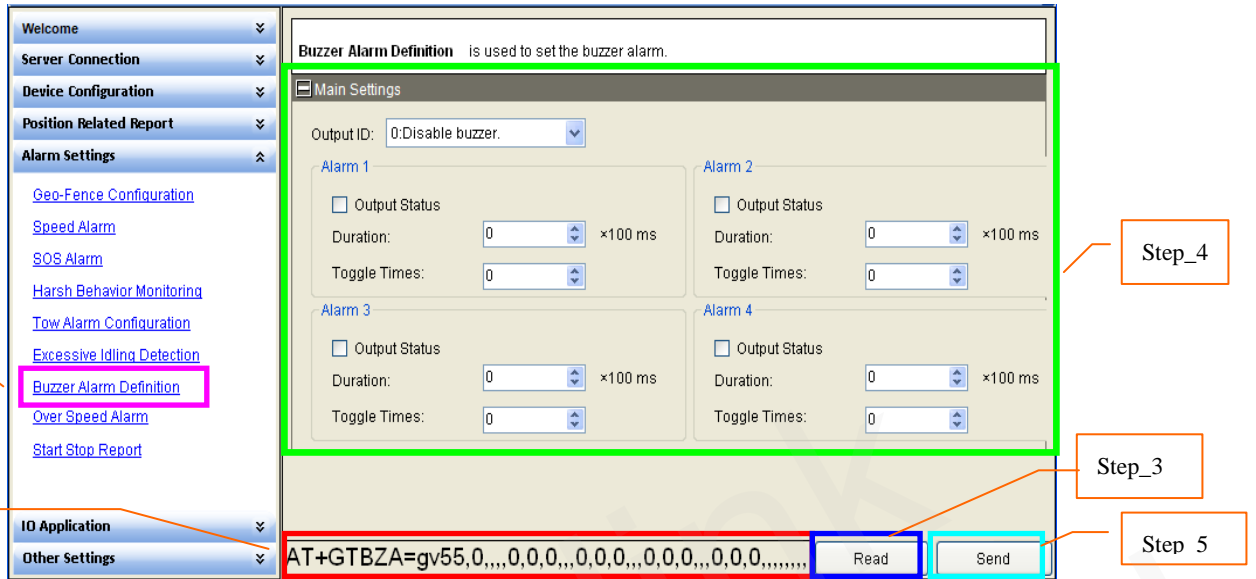
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the harsh behavior monitoring parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTHBM to GV55.

### 3.2.19. Set the parameters of buzzer alarm definition



**Step\_1:** Select “Buzzer Alarm Definition”, after that the parameters of GTBZA show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the buzzer alarm definition parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTBZA to GV55.

### 3.2.20. Set the parameters of over speed alarm

The screenshot shows the 'Over Speed Alarm' configuration page. The left sidebar has 'Over Speed Alarm' highlighted. The main area contains a 'Mode' dropdown set to 'Disable' and four 'Speed Threshold' sections. Each section has 'Speed Threshold', 'Validity', and 'Alarm Type' fields. The command field at the bottom contains 'AT+GTSPA=gv55,0,50,,60,0,,70,,60,0,,90,,60,0,,110'. 'Read' and 'Send' buttons are also visible.

**Step\_1:** Select “Over Speed Alarm”, after that the parameters of GTSPA show in Command Operation Space.

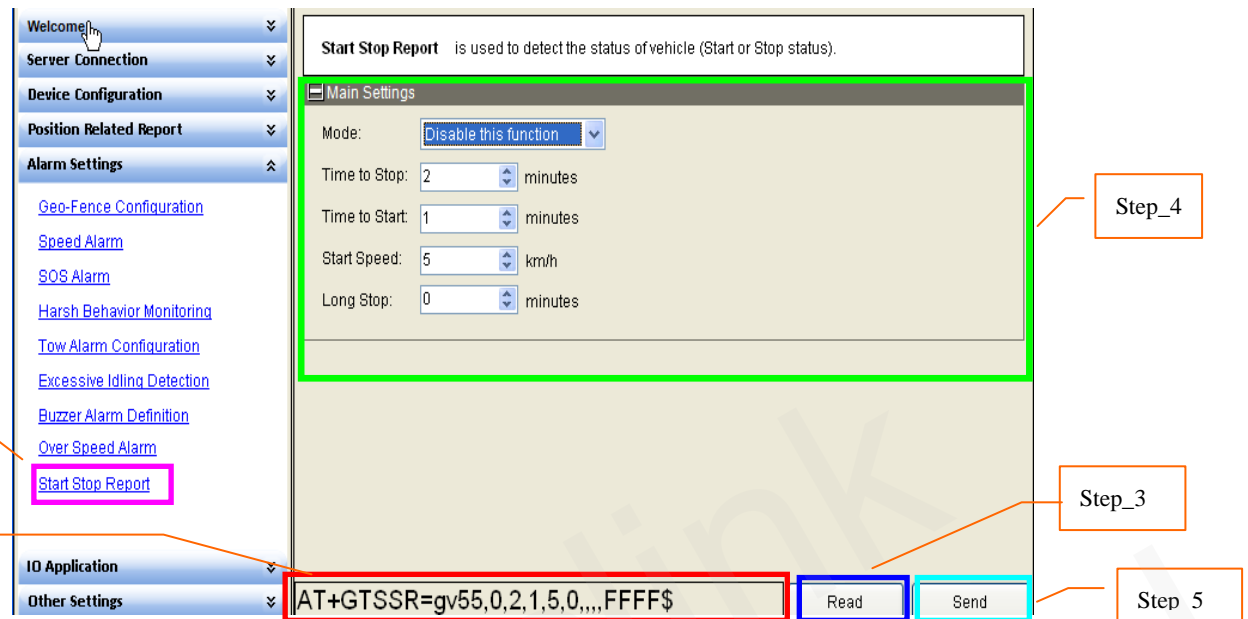
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the over speed alarm parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTSPA to GV55.

### 3.2.21. Set the parameters of start stop report



The screenshot shows the 'Start Stop Report' configuration window. The left sidebar lists various settings, with 'Start Stop Report' highlighted. The main area contains the following parameters:

- Mode: Disable this function
- Time to Stop: 2 minutes
- Time to Start: 1 minutes
- Start Speed: 5 km/h
- Long Stop: 0 minutes

At the bottom, the command field displays: `AT+GTSSR=gv55,0,2,1,5,0,,,FFFF$`. Below the command field are 'Read' and 'Send' buttons.

**Step\_1:** Select “Start Stop Report”, after that the parameters of GTSSR show in Command Operation Space.

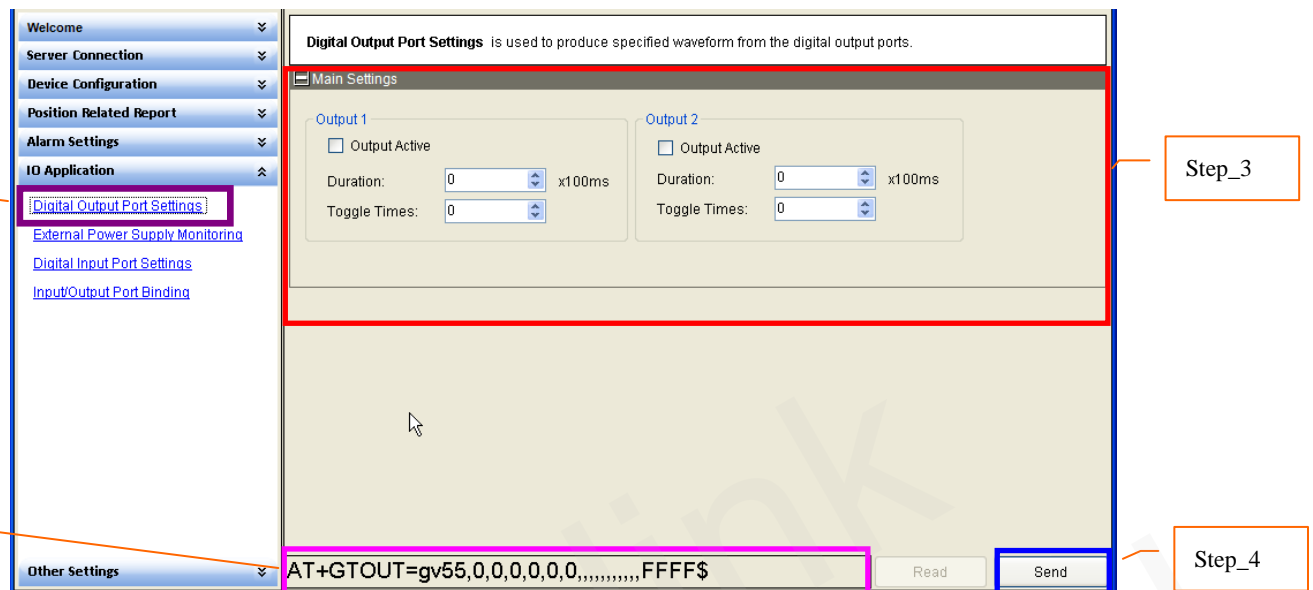
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set start stop report parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTSSR to GV55.

### 3.2.2. Set the parameters of digital output report



The screenshot shows the 'Digital Output Port Settings' configuration page. The left sidebar contains a menu with 'Digital Output Port Settings' highlighted. The main area is titled 'Digital Output Port Settings is used to produce specified waveform from the digital output ports.' It features a 'Main Settings' section with two output configurations, 'Output 1' and 'Output 2'. Each output has an 'Output Active' checkbox, a 'Duration' field (set to 0 x100ms), and a 'Toggle Times' field (set to 0). At the bottom, a command input field contains the text 'AT+GTOUT=gv55,0,0,0,0,0,0,0,,,,,,FF\$' and a 'Send' button.

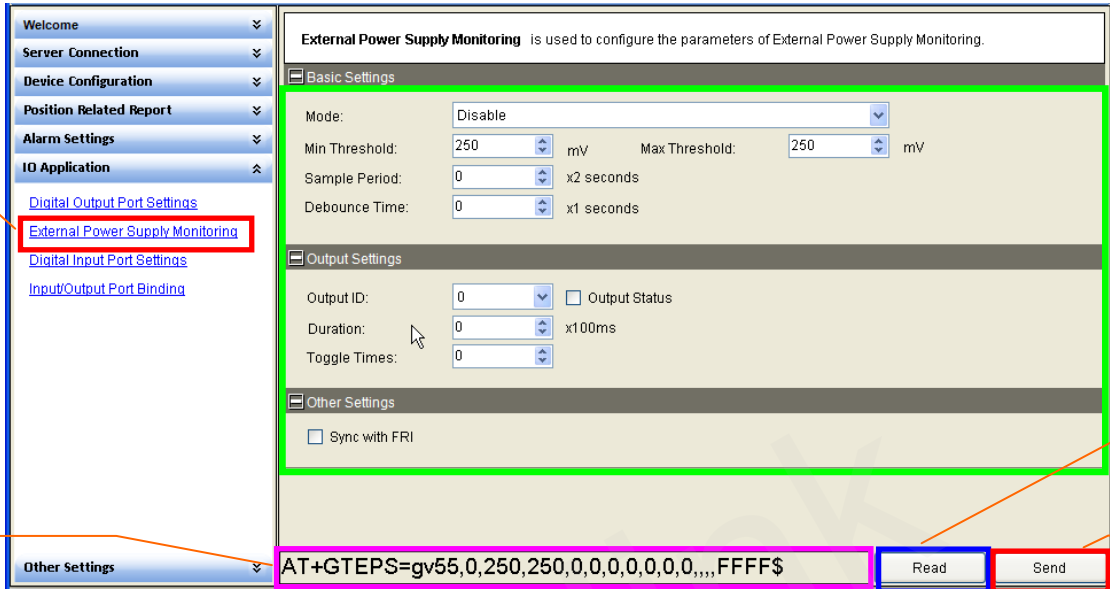
**Step\_1:** Select “*Digital Output Port Settings*”, after that the parameters of GTOUT show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** Set the digital output parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_4:** Click the “*Send*” button; download the parameters of GTOUT to GV55.

### 3.2.23. Set the parameters of external power supply monitoring



**Step\_1:** Select “*External Power Supply Monitoring*”, after that the parameters of GTEPS show in Command Operation Space.

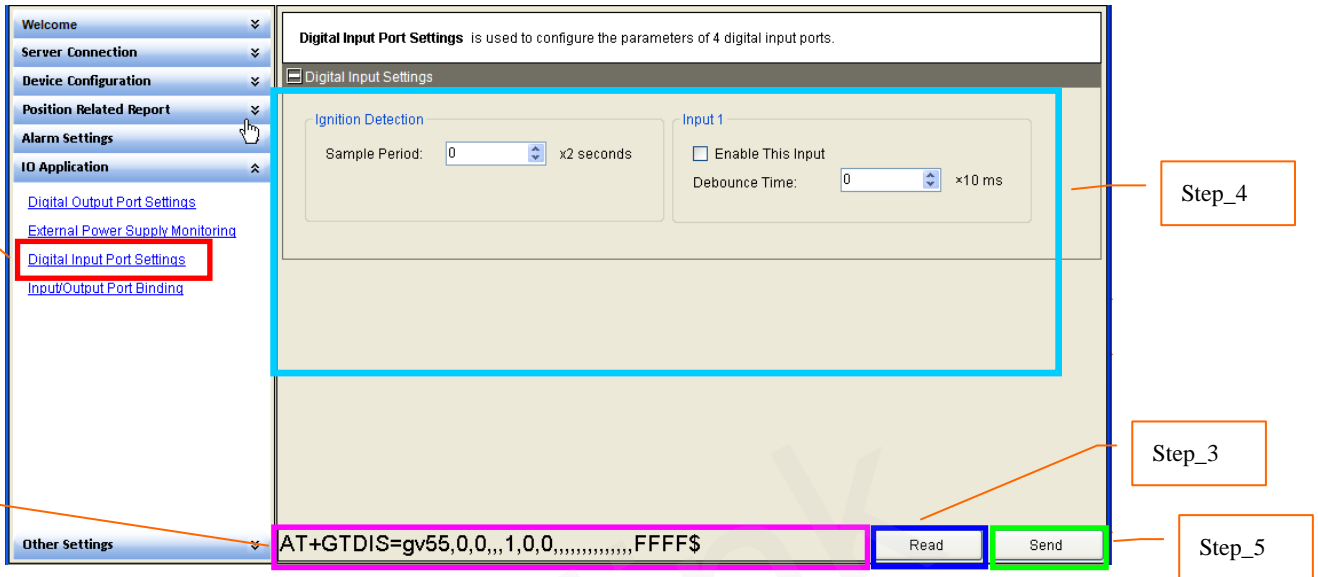
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the external power supply monitoring parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTEPS to GV55.

### 3.2.24. Set the parameters of digital input port setting



The screenshot shows the 'Digital Input Port Settings' configuration page. The left sidebar contains a menu with 'Digital Input Port Settings' highlighted. The main content area has a title bar and a description: 'Digital Input Port Settings is used to configure the parameters of 4 digital input ports.' Below this, there are two main sections: 'Ignition Detection' and 'Input 1'. The 'Ignition Detection' section has a 'Sample Period' field set to '0' with a unit of 'x2 seconds'. The 'Input 1' section has an 'Enable This Input' checkbox (unchecked) and a 'Debounce Time' field set to '0' with a unit of 'x10 ms'. At the bottom, there is a command input field containing 'AT+GTDIS=gv55,0,0,,,1,0,0,,,,,,FFFF\$', a 'Read' button, and a 'Send' button.

**Step\_1:** Select “*Digital Input Port Setting*”, after that the parameters of GTDIS show in Command Operation Space.

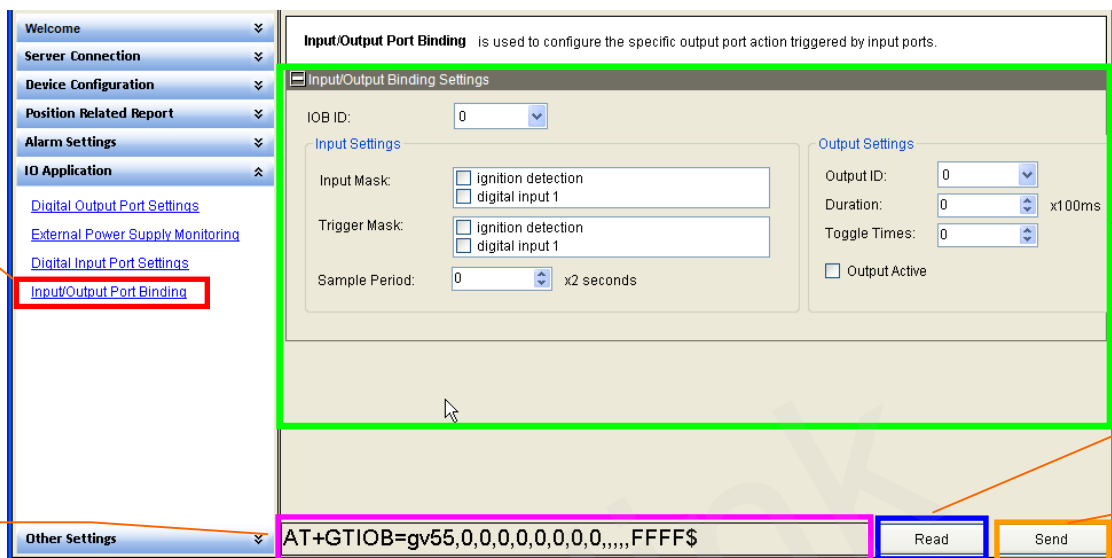
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the Digital Input parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTDIS to GV55.

### 3.2.25. Set the parameters of input/output port binding



The screenshot shows the 'Input/Output Port Binding' configuration page. The left sidebar contains a menu with 'Input/Output Port Binding' highlighted. The main area is titled 'Input/Output Port Binding' and contains the following settings:

- IOB ID: 0
- Input Settings:
  - Input Mask:  ignition detection,  digital input 1
  - Trigger Mask:  ignition detection,  digital input 1
  - Sample Period: 0 x2 seconds
- Output Settings:
  - Output ID: 0
  - Duration: 0 x100ms
  - Toggle Times: 0
  - Output Active

At the bottom, the command area shows the command: `AT+GTIOB=gv55,0,0,0,0,0,0,0,0,,,,,FFFF$`. Below the command are 'Read' and 'Send' buttons.

**Step\_1:** Select “*Input/Output Port Binding*”, after that the parameters of GTIOB show in Command Operation Space.

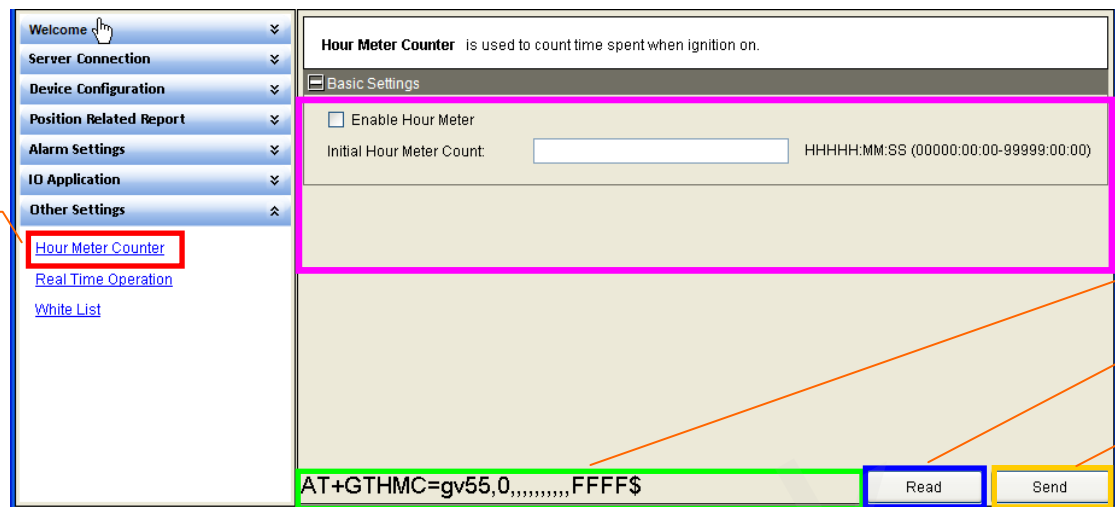
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the Input/Output port parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTIOB to GV55.

### 3.2.26. Set the parameters of hour meter counter



The screenshot shows the 'Hour Meter Counter' configuration page. The left sidebar has a menu with 'Hour Meter Counter' highlighted. The main content area has a 'Basic Settings' section with a checkbox for 'Enable Hour Meter' and an 'Initial Hour Meter Count' input field. The bottom of the page shows a command area with the command 'AT+GTHMC=gv55,0,,,,,,FF\$' and 'Read' and 'Send' buttons.

**Step\_1:** Select “Hour Meter Counter”, after that the parameters of GTHMC show in Command Operation Space.

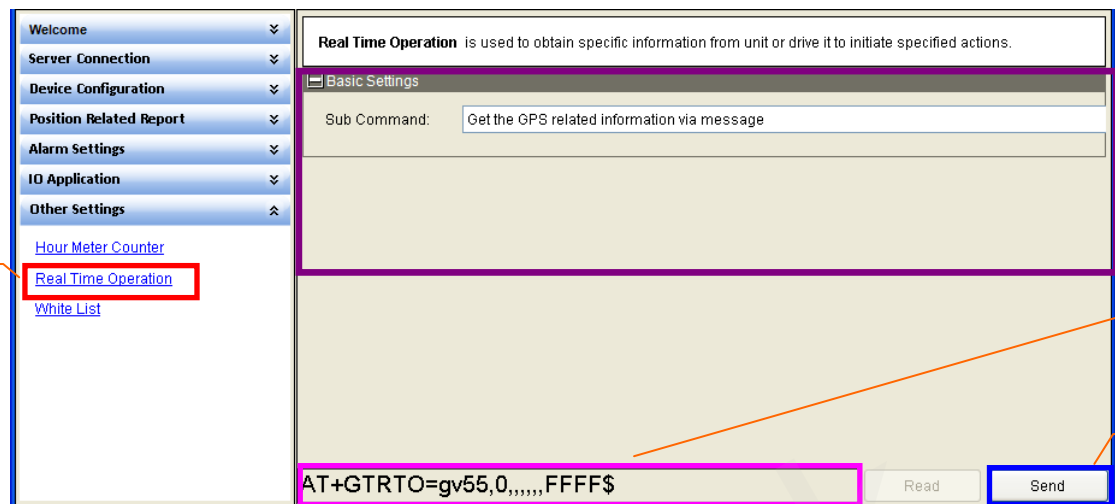
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the hour meter counter parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTHMC to GV55.

### 3.2.27. Set the parameters of real time operation



The screenshot shows the 'Real Time Operation' configuration screen. The left sidebar has a menu with 'Real Time Operation' highlighted. The main content area has a 'Sub Command' input field with the text 'Get the GPS related information via message'. Below this is a large empty text area. At the bottom, there is a command input field containing 'AT+GTRTO=gv55,0,,,,,FFFF\$' and two buttons: 'Read' and 'Send'.

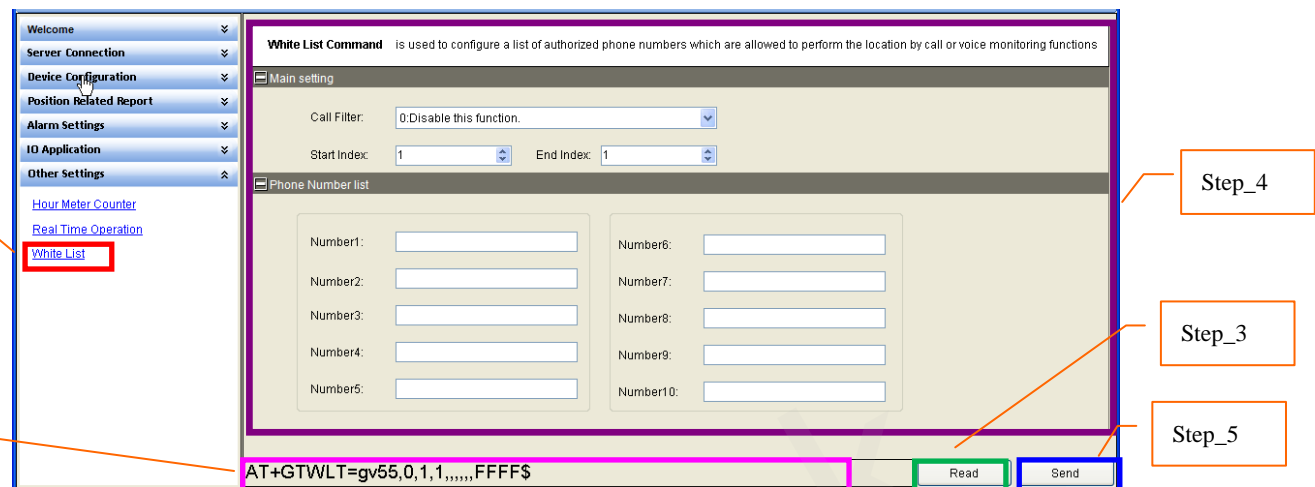
**Step\_1:** Select “*Real Time Operation*”, after that the parameters of GTRTO show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** Set the real time operation parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_4:** Click the “*Send*” button; download the parameters of GTRTO to GV55.

### 3.2.28. Set the parameters of white list setting



**Step\_1:** Select “White List”, after that the parameters of GTWLT show in Command Operation Space.

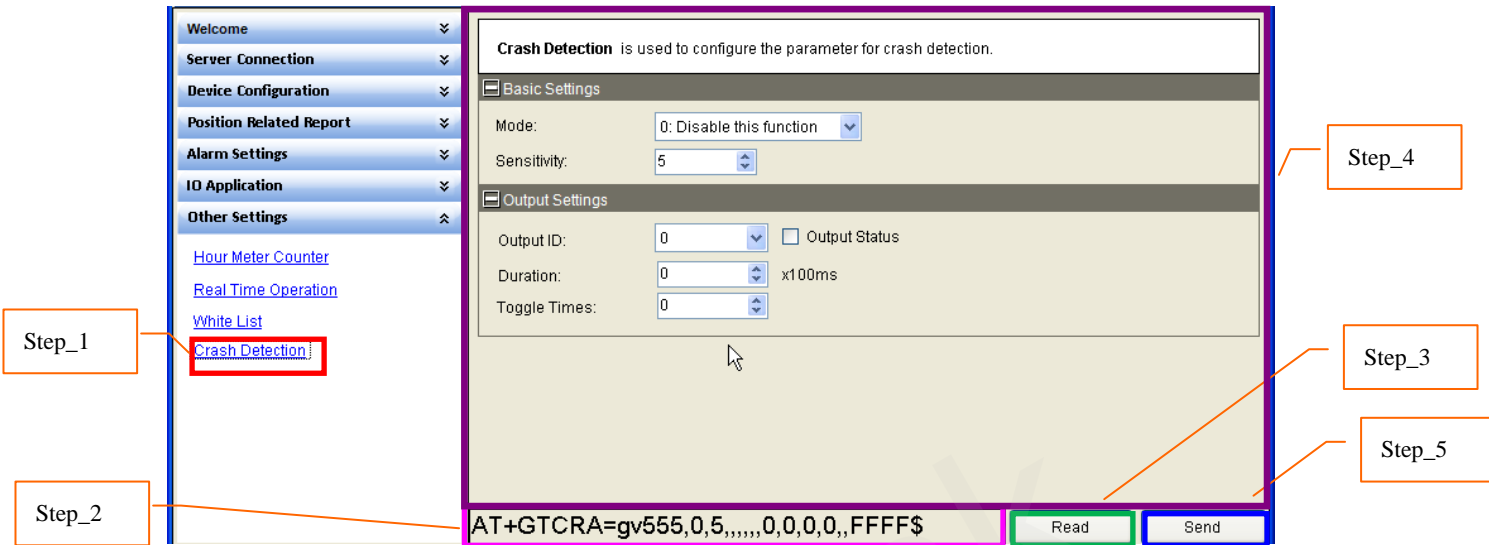
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the white list parameters. Please refer to “GV55 @Track Air Interface Protocol” for the meaning of each parameter.

**Step\_5:** Click the “Send” button; download the parameters of GTWLT to GV55.

### 3.2.29. Set the parameters of crash detection



**Step\_1:** Select “*Crash Detection*”, after that the parameters of GTCRA show in Command Operation Space.

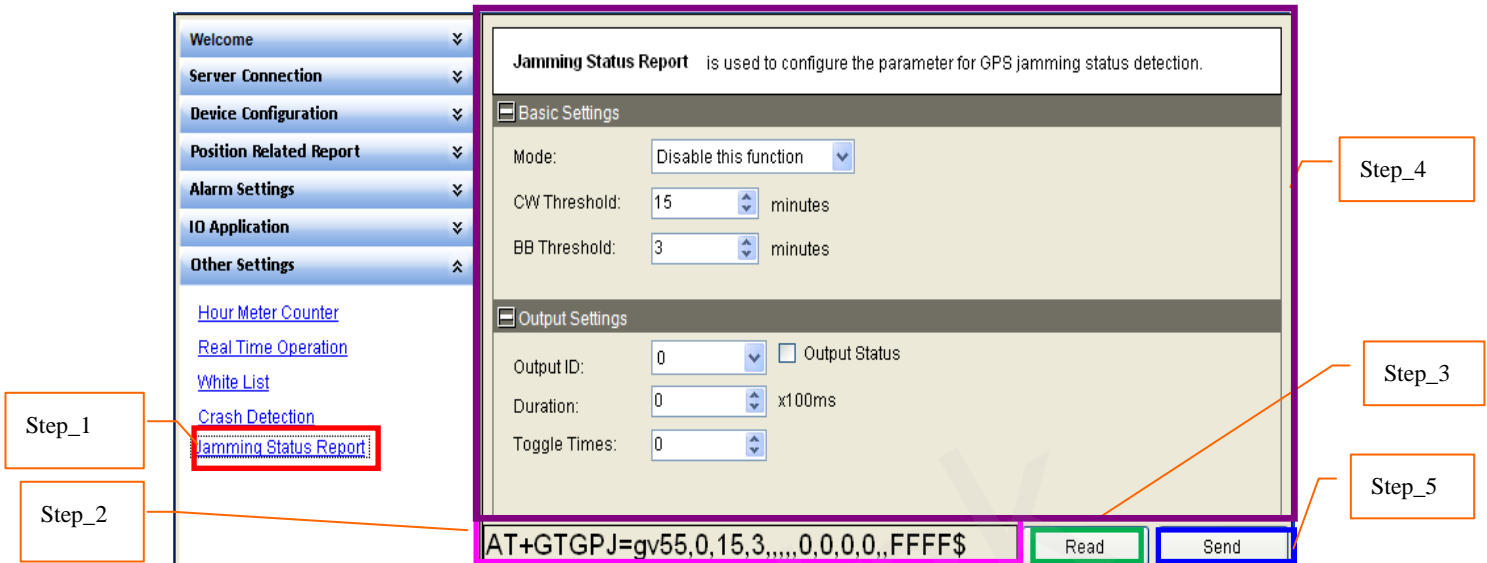
**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the *Crash Detection* parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTCRA to GV55.

### 3.2.30. Set the parameters of GPS Jamming Status Report



**Step\_1:** Select “*Jamming Status Report*”, after that the parameters of GTGPJ show in Command Operation Space.

**Step\_2:** The command message which shall be sent to GV55 will be generated based on input and displayed here. Please note this command message can also be sent to GV55 through SMS or GPRS.

**Step\_3:** It is recommended to read the parameters from GV55 and edit based on them.

**Step\_4:** Set the *Jamming Status Report* parameters. Please refer to “*GV55 @Track Air Interface Protocol*” for the meaning of each parameter.

**Step\_5:** Click the “*Send*” button; download the parameters of GTGPJ to GV55.

### 3.3. Read/Save All Configuration

Step\_1: It is recommended to read all configurations from device before save the configuration. Select “*Read All Configuration*”→”*Read From Device*”.

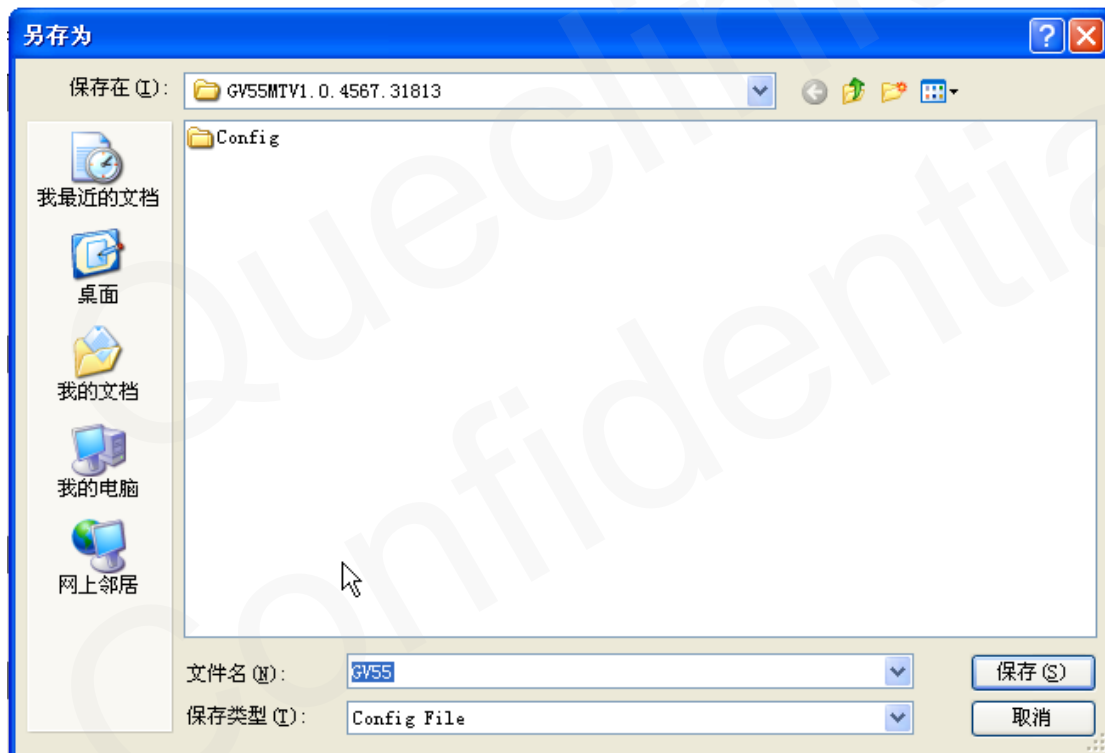


**NOTE:**Command **GTOUT** and **GTRTO** will not be read when “*Read From Device*”.

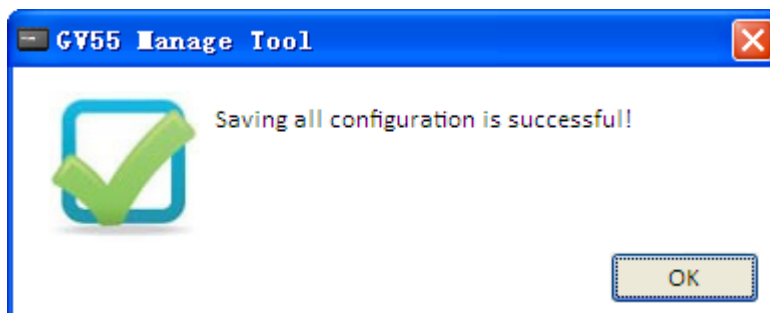
Step\_2: After read successfully, click “*Save All Configuration*” in toolbar.



Step\_3: Select a folder, and key in the name of configuration file, then click “*Save*” button.

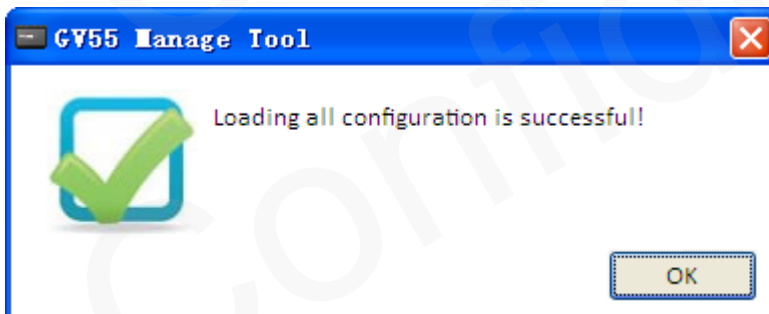
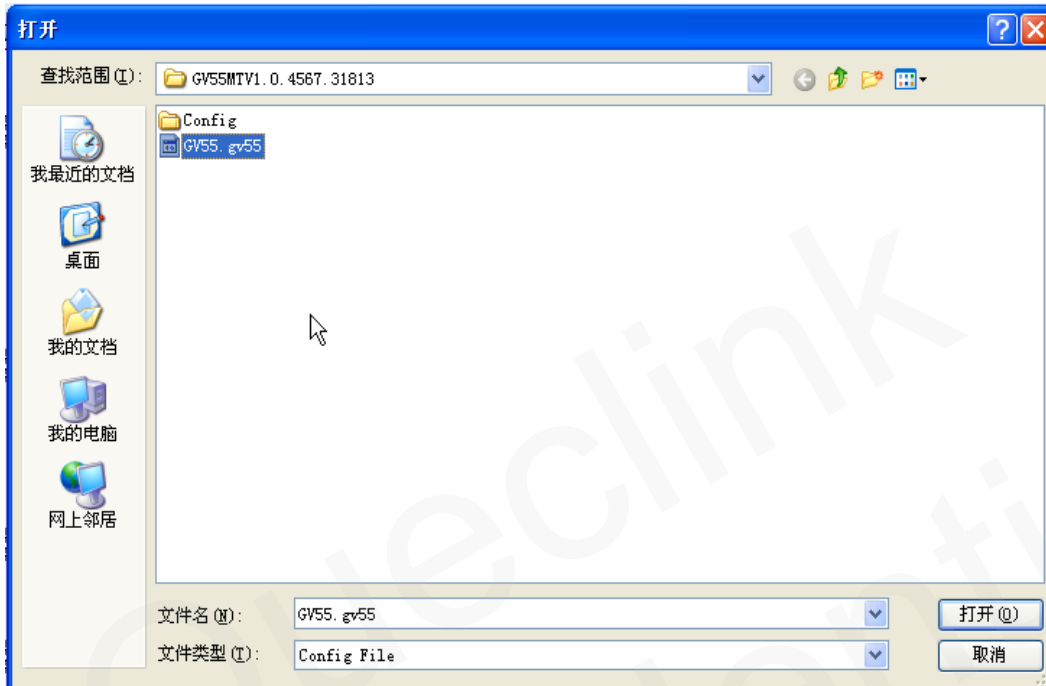


Step\_4: Save successfully.



### 3.4. Load/Send All Configuration

Step\_1: Before send all configurations, please load the configuration file or set all parameters in commands. To load configuration file, please select “*Read All Configuration*” → “*Load Configurations From File*”. And then select the configuration file you needed.



Step\_2: You can set the parameters in commands base on the configuration file, and then click “*Send All Configuration*” in toolbar.



**NOTE: Command GTBSR, GTSRI, GTRTO will not be sent when “Send All Configuration”.**

Step\_3: Manage Tool will send all commands to device.