



GSM/GPRS/GPS Tracker **GV55Lite** Manage Tool User Guide

TRACGV55LiteMT001

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1. Revision History

Revision	Date	Author	Description of change
1.01	2012-10-08	Sara Wang	Initial
1.02	2013-04-12	Sara Wang	1) Add parameters <Connection Retry Pattern> in the command AT+GTSRI 2) Add parameters <DOS Report> in the Command AT+GTOUT 3) Add Mode 5 “Fixed Time or Mileage Report” in AT+GTFRI 4) Add parameters <GSM Interval> and <PDP Interval> to the command AT+GTDG 5) Add AT command GTPDS 、 GTFFC 、 GTRMD 6) Add <Single AT Command> in AT+GTRTO
1.03	2013-10-28	Sara Wang	1) Add parameters <Feature Switch Mask> in the Command AT+GTCFG 2) Add AT command AT+GTGPJ

2. GV55Lite Manage Tool Interface

GV55Lite manage tool is PC software which can be used to configure GV55Lite through UART. It is easy for the backend server developers to configure GV55Lite with manage tool, which has friendly user interface. The correct command messages sent to GV55Lite 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 GV55Lite before selling. But it is strongly recommended to establish a backend server and implement the way to control GV55Lite by SMS or GPRS. Please refer to “GV55Lite @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 GV55Lite to 12VDC power supply and GV55Lite will power on.
2. Connect GV55Lite to PC with USB data cable (DATA CABLE_M).
3. Run “GV55Lite 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



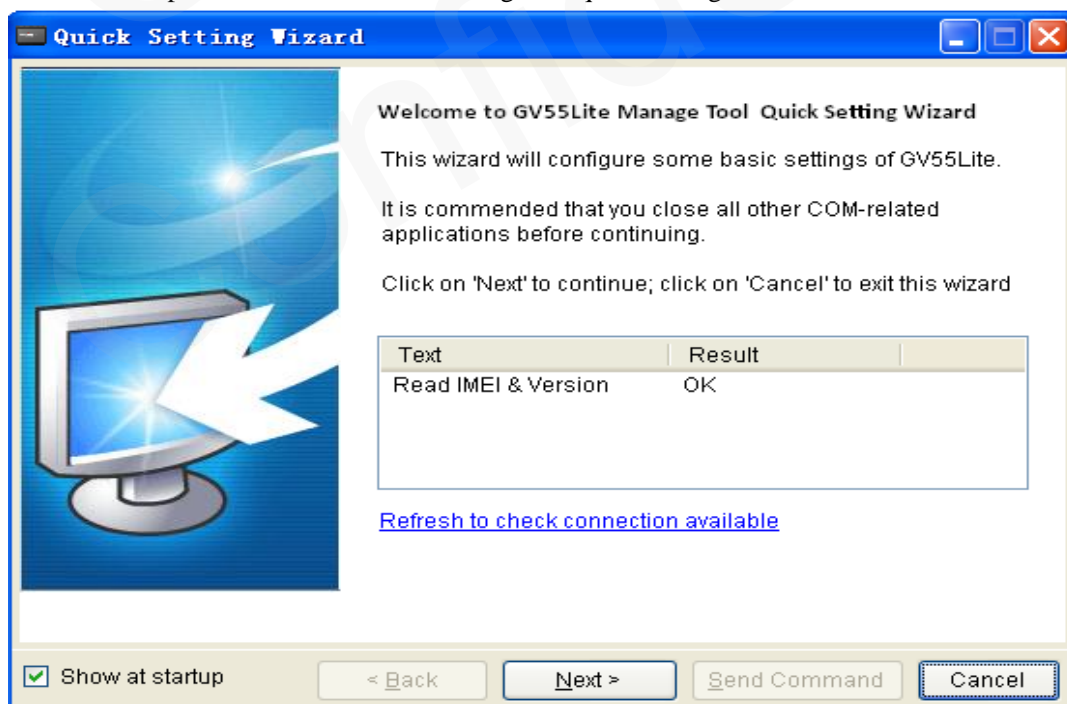
Select the COM port and baud rate (115200bps in default), input the password (“gv55L” in default), and click “OK” button, then setting window will display.

2.3. Quick Setting Wizard

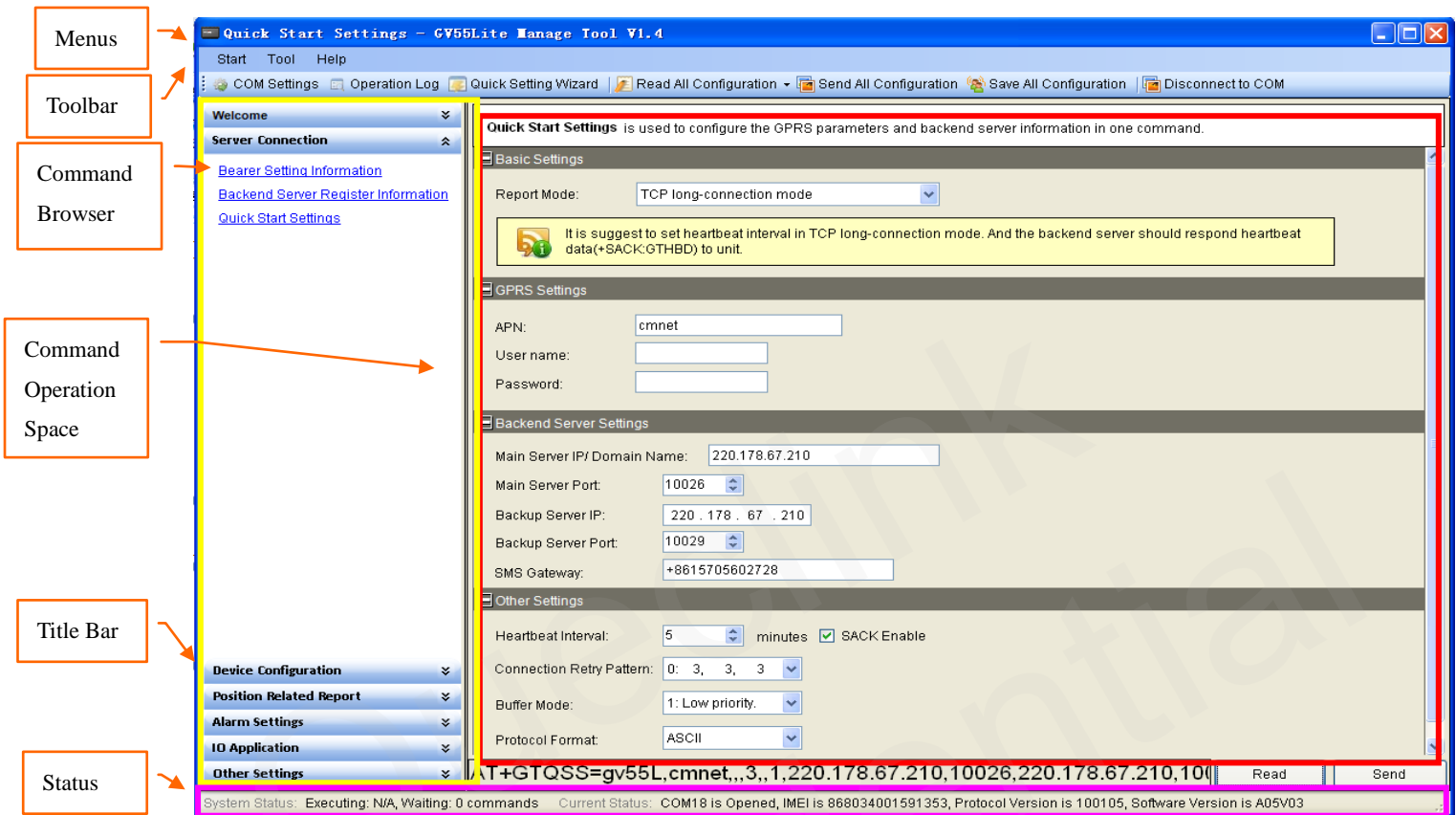
The quick setting wizard gives a basic setting for device. If you want use more functions of GV55LITE, please change to enter professional setting mode.

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”.

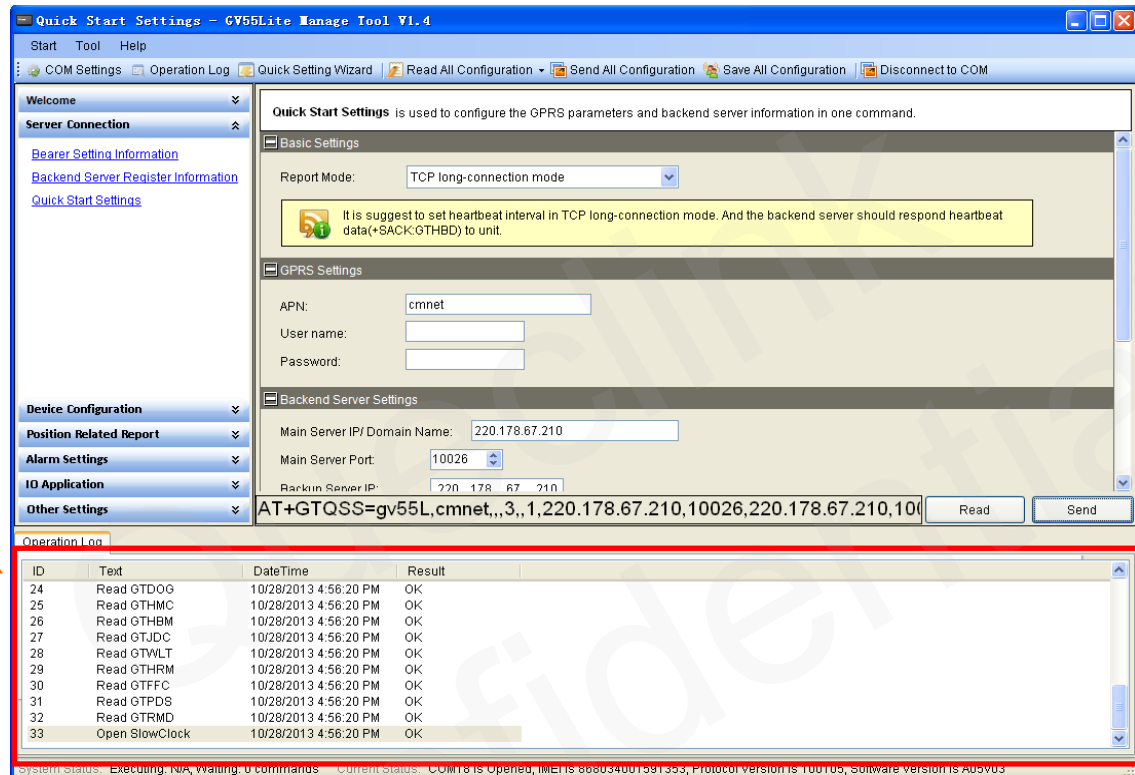
[COM Setting]: It is used to set the COM information and password Setting details please refer to chapter 2.2

2.4.2.2 Tool Menu

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

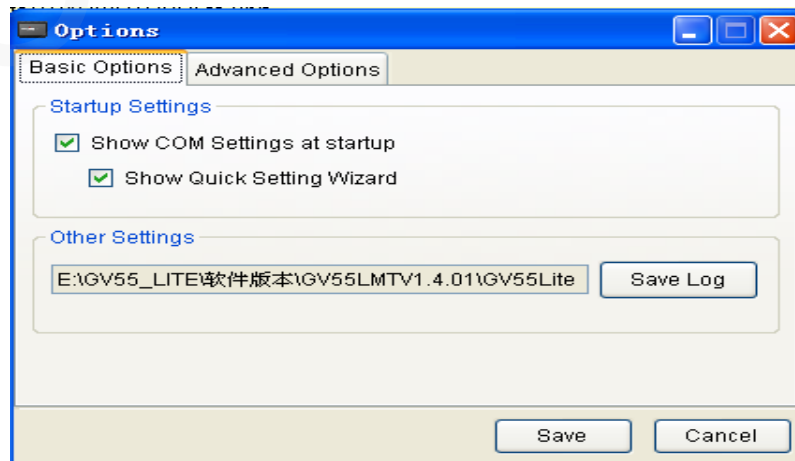
[Quick Setting Wizard]: It is used to open quick setting wizard directly. Please refer to chapter 3.1 for details.

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



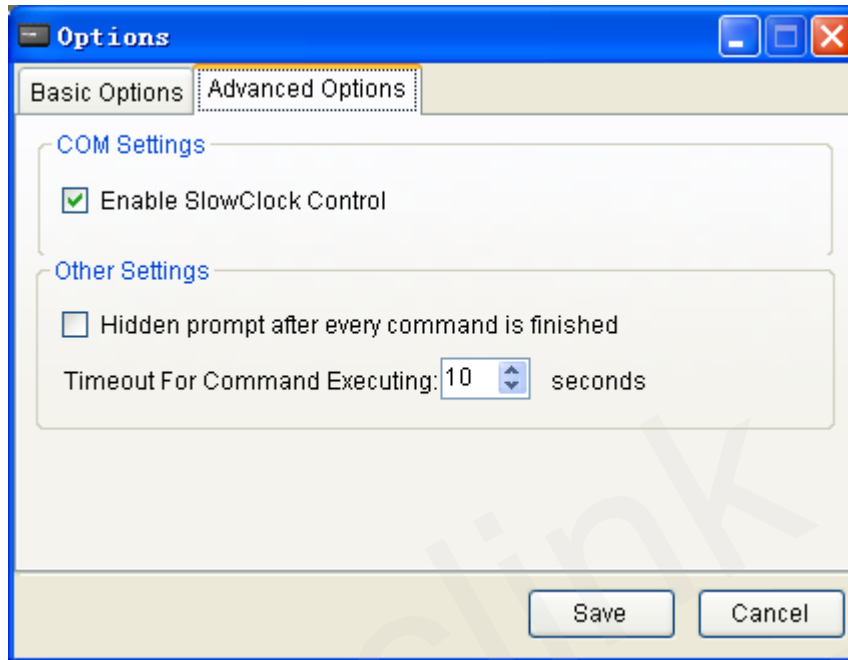
[Options]: It is used to set the basic setting of manage tool.

“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”.

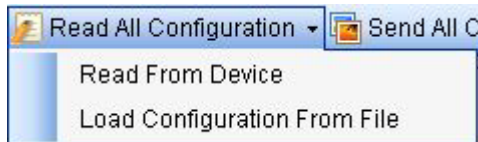


[COM Setting]: It is used to set the COM information and password. Setting details please refer to chapter 2.2.

[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: COM18 Is Opened, IMEI Is 868034001591353, Protocol Version is 100105, Software Version is A05V03

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 Browser 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 Setting	GTPDS
Position Related Report	Fixed Report Information	GTFRI
	Frequency Change of Fixed Report Information	GTFFC
Alarm Setting	Geo-Fence Configuration	GTGEO
	Speed Alarm	GTSPD
	SOS Alarm	GTSOS
	Harsh Behavior Monitoring	GTHBM
	Roaming Detection Configuration	GTRMD
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
	GPS Jamming status report	GTGPJ

2.4.5.2 Command Operation Space

Command Description

Parameters Area

Command Display

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

Basic Settings
 Report Mode: TCP long-connection mode

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

GPRS Settings
 APN: cmnet
 User name:
 Password:

Backend Server Settings
 Main Server IP/ Domain Name: 220.178.67.210
 Main Server Port: 10029
 Backup Server IP: 220 . 178 . 67 . 210
 Backup Server Port: 10029
 SMS Gateway: +8615705602728

Other Settings
 Heartbeat Interval: 5 minutes SACK Enable
 Connection Retry Pattern: 4: 3, 30, 60
 Buffer Mode: 1: Low priority.
 Protocol Format: ASCII

AT+GTQSS=gv55L,cmnet,,3,,1,220.178.67.210,10029,220.178.67.210,10029,+86157056027 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.

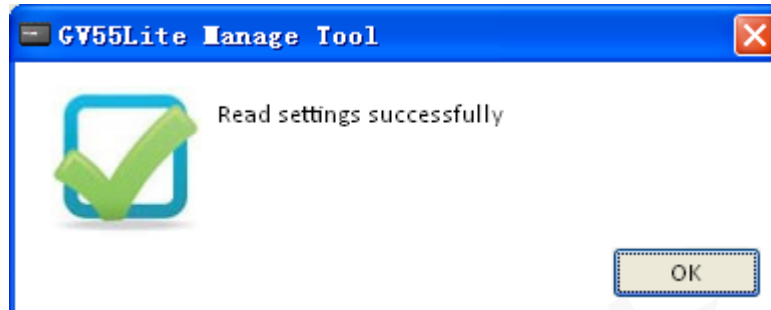
[Read]: Click this button to read this command from device.

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

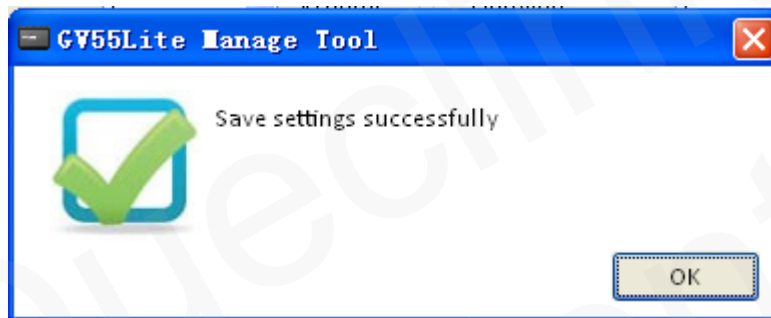
2.5. Operation Result Interface

2.5.1. Operation Successfully Interface

Command read OK.

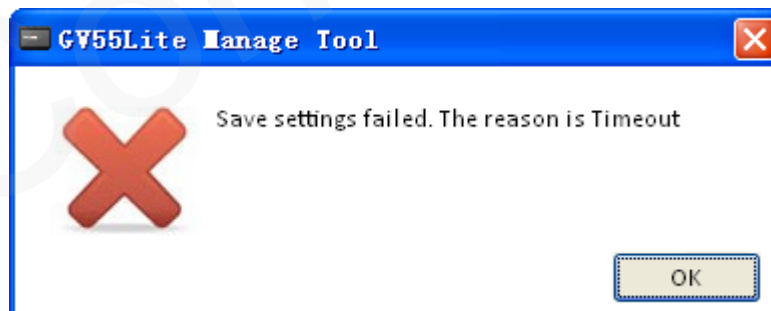


Command send OK.

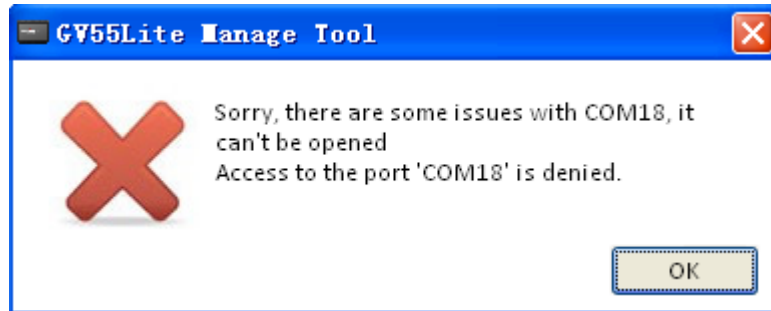


2.5.2. Operation Failed Interface

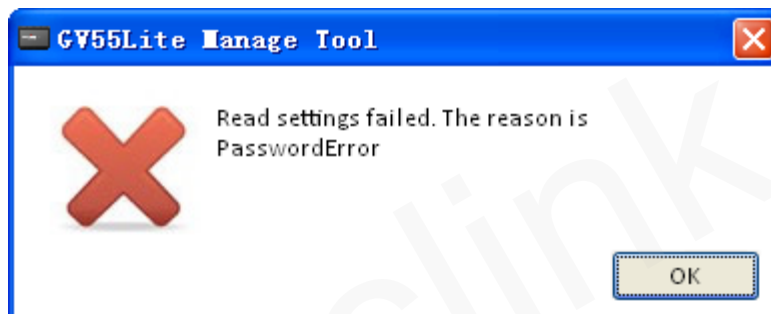
There should be COM port connection problem if the fail reason is timeout.



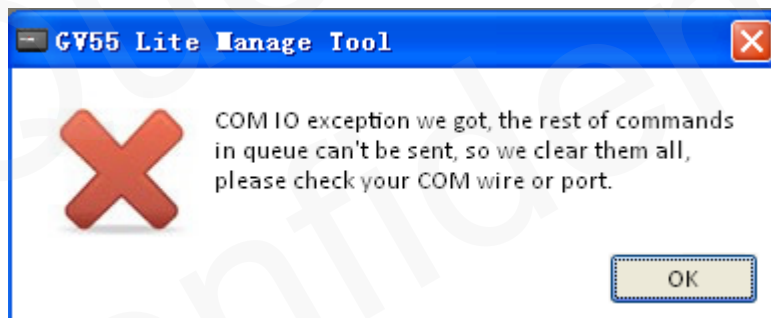
There should be COM port is occupied. Please close all other COM-related applications.



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

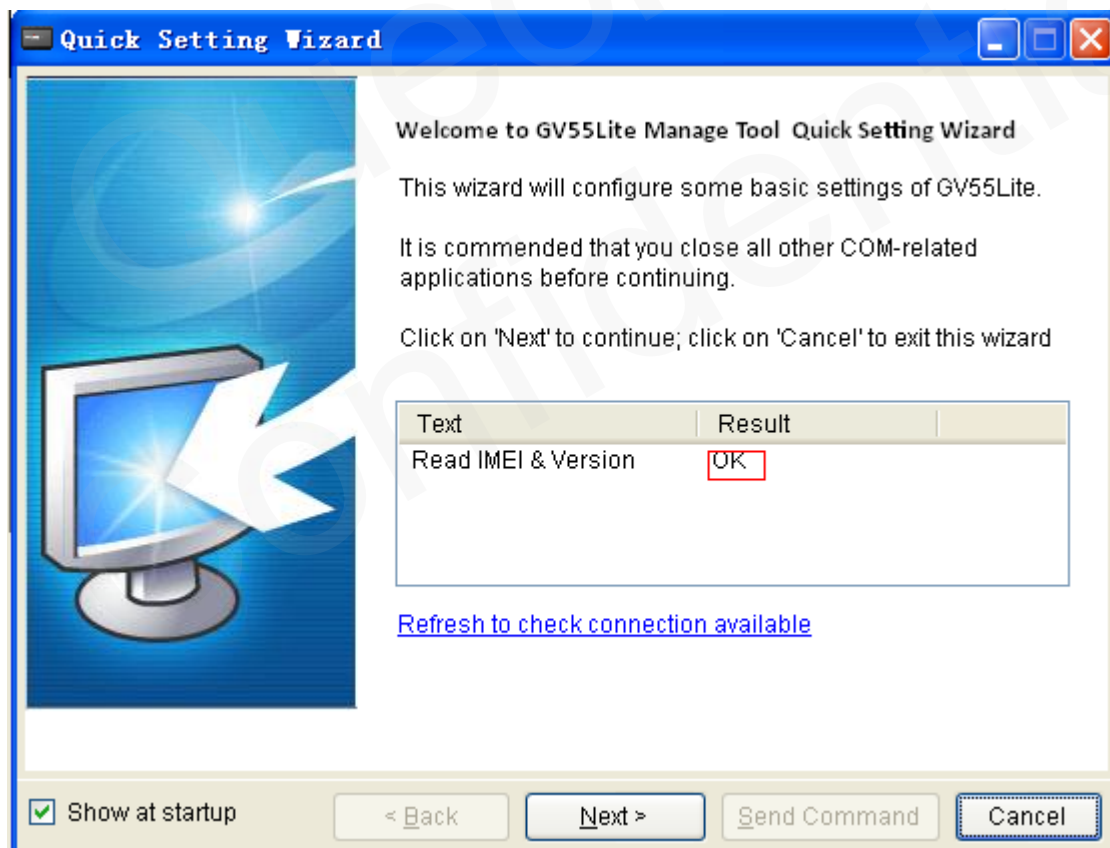
3.1. Device Configuration with Quick Setting Wizard

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to “GV55Lite @Track Air Interface Protocol” for detail.

The quick setting wizard gives a basic setting for device. If you want use more functions of GV55Lite, 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 “GV55Lite @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

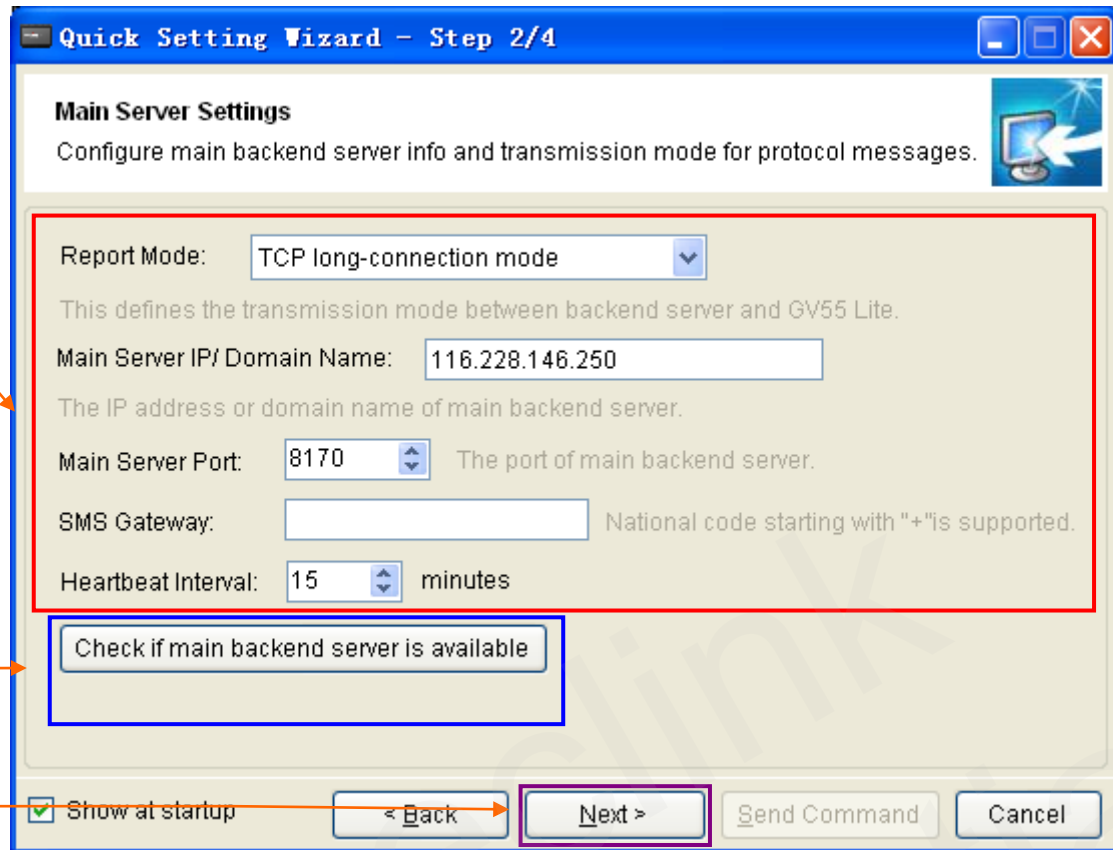
< Back Next > Send Command Cancel

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 “GV55Lite @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 Lite.

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

Main Server Port: 8170 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

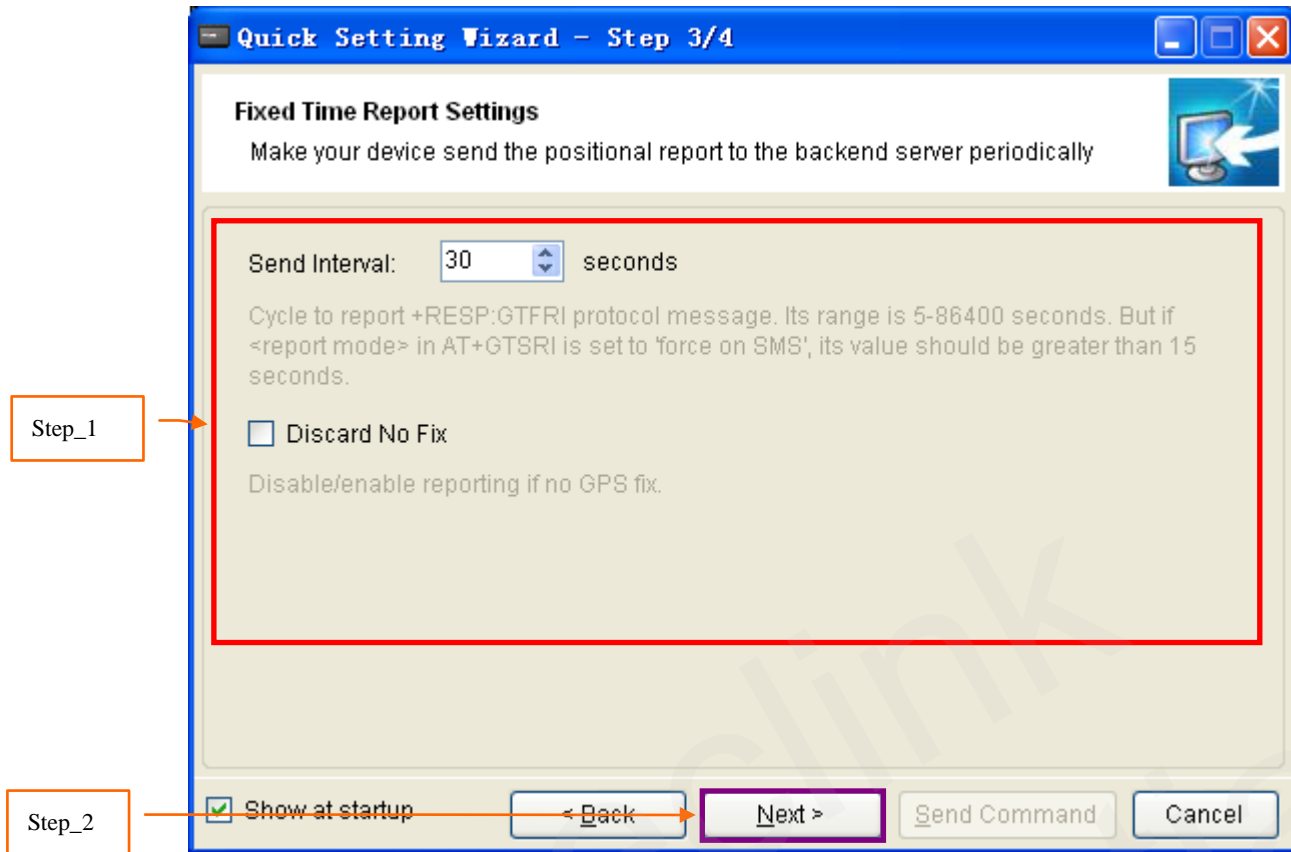
Show at startup

< Back Next > Send Command Cancel

3.1.4. Fixed Time Report Setting

Step_1: Set check interval, send interval, discard no fix in this window. The meaning of these parameters, please refer to the "GV55Lite @Track Air Interface Protocol" for detail.

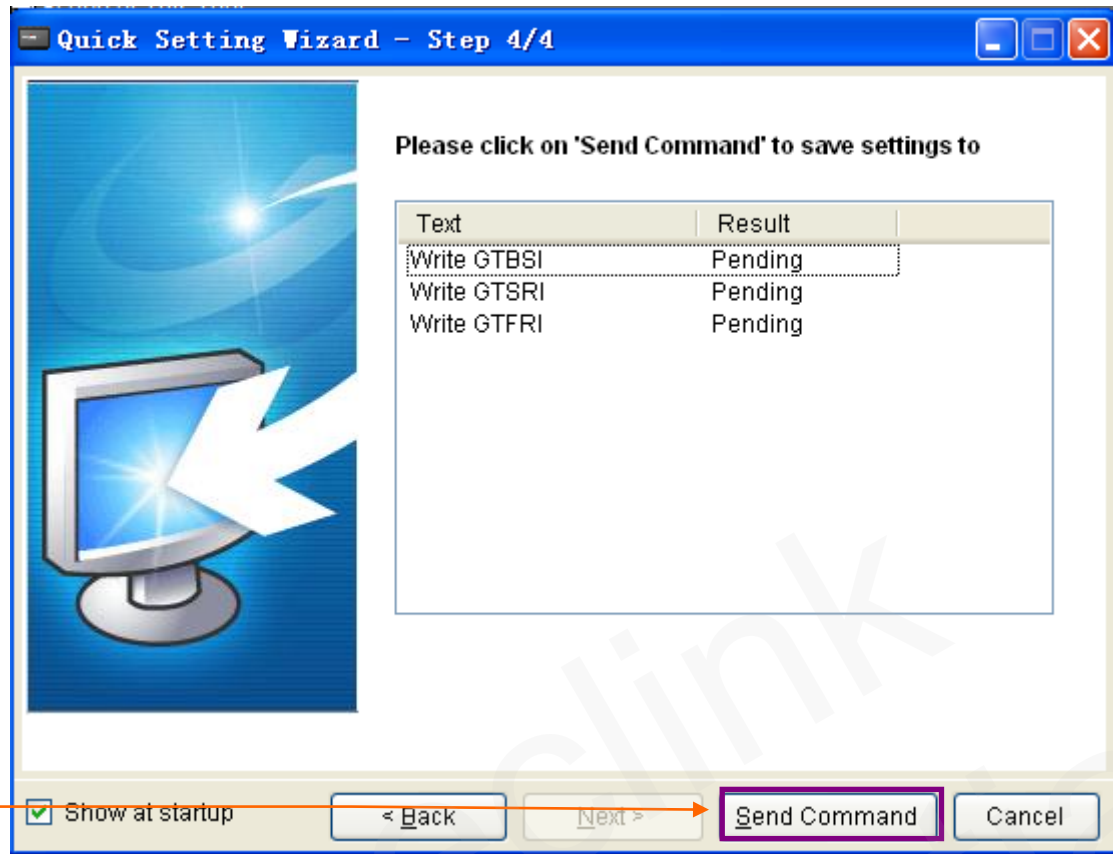
Step_2: Click "Next".



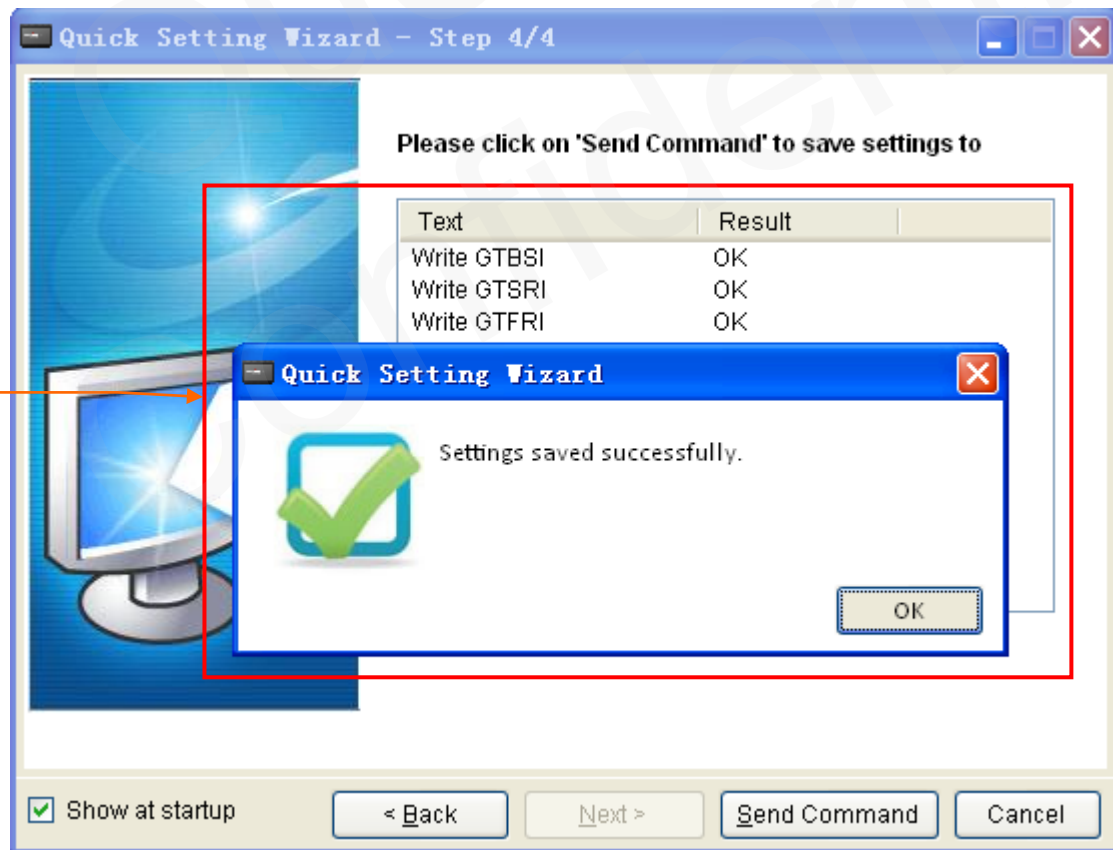
3.1.5. Send Command to Device

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.



Step_1



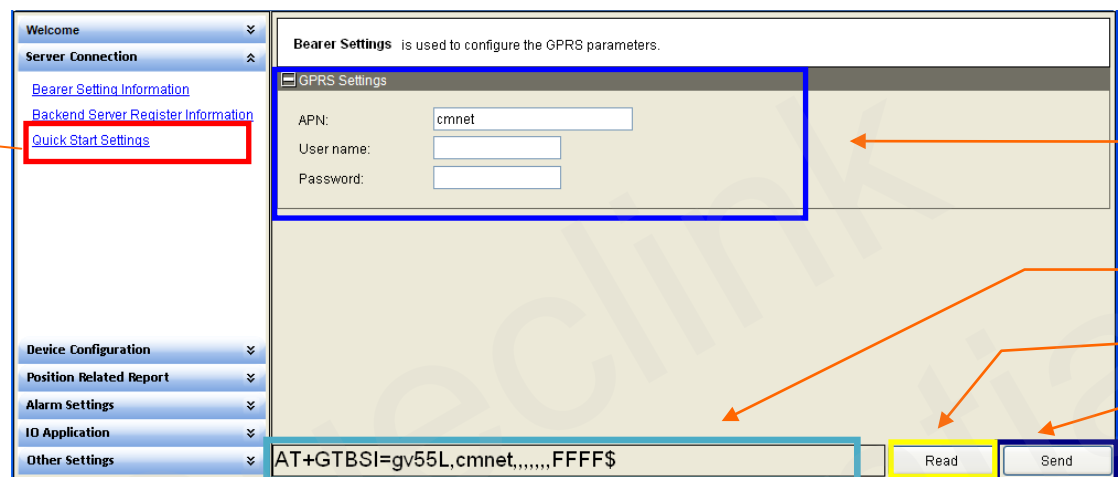
Step_2

3.2. Device Configuration in Professional Setting Mode

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to “GV55Lite @Track Air Interface Protocol” for detail.

Following is a general procedure to configure GV55Lite 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.

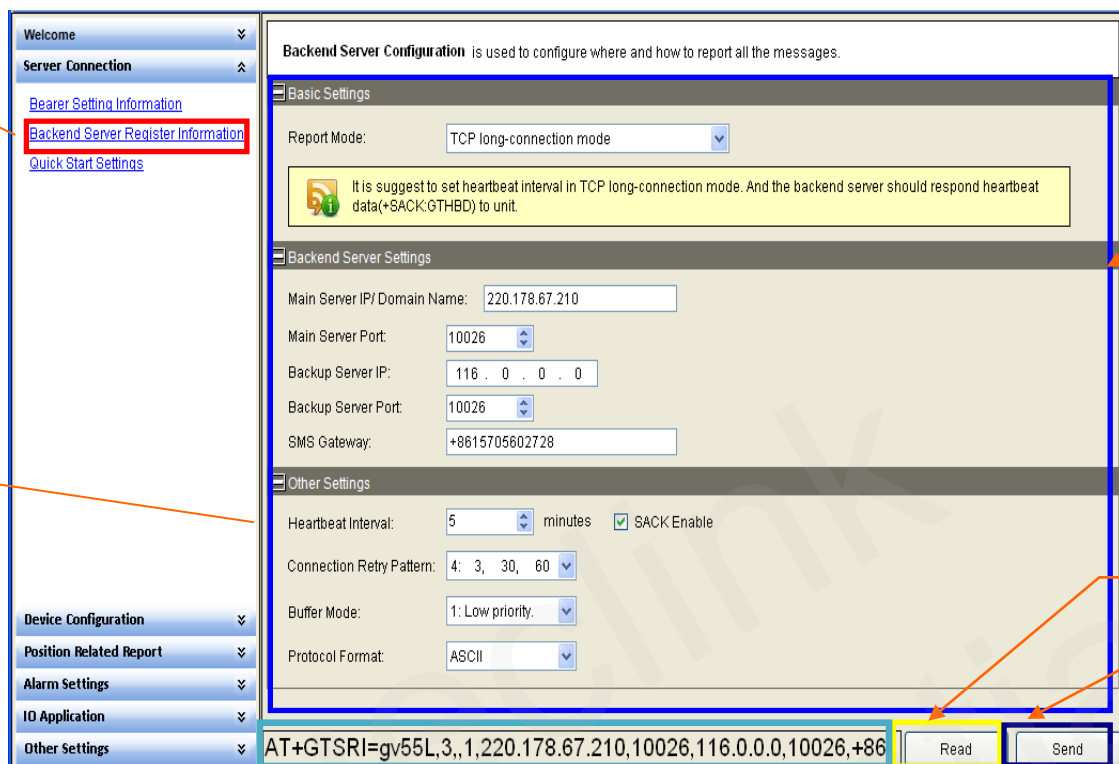
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set APN parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTBSI to GV55Lite.

3.2.2. Set the parameters of backend server register information



The screenshot shows the 'Backend Server Configuration' window. The left sidebar has a 'Server Connection' section with 'Backend Server Register Information' selected. The main area is titled 'Backend Server Configuration' and contains three sections: 'Basic Settings' (Report Mode: TCP long-connection mode), 'Backend Server Settings' (Main Server IP/ Domain Name: 220.178.67.210, Main Server Port: 10026, Backup Server IP: 116.0.0.0, Backup Server Port: 10026, SMS Gateway: +8615705602728), and 'Other Settings' (Heartbeat Interval: 5 minutes, SACK Enable checked, Connection Retry Pattern: 4: 3, 30, 60, Buffer Mode: 1: Low priority, Protocol Format: ASCII). At the bottom, a command field contains 'AT+GTSRI=gv55L,3,,1,220.178.67.210,10026,116.0.0.0,10026,+86' and 'Read' and 'Send' buttons.

Step_1: Select “*Backend Server Register Information*”, after that the parameters of GTSRI show in Command Operation Space.

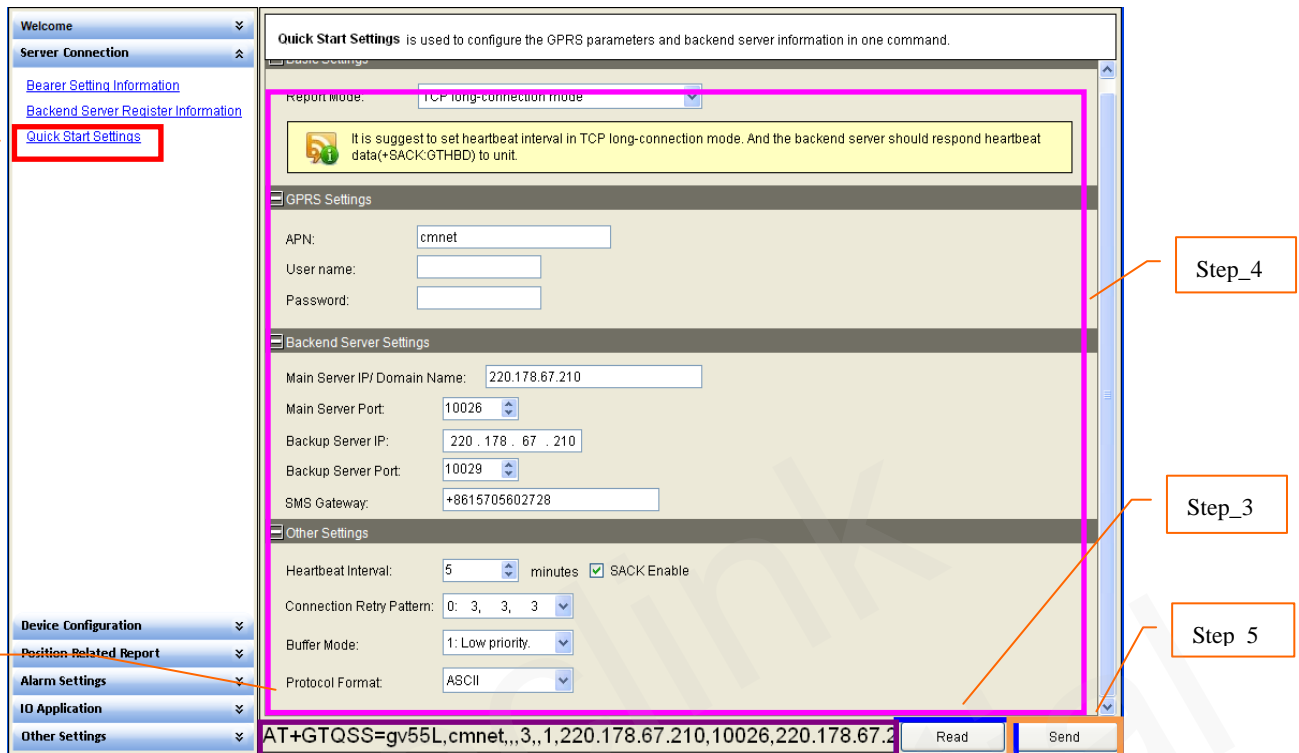
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set backend server information parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTSRI to GV55Lite.

3.2.3. Set the parameters of quick start setting



Step_1 points to the "Quick Start Settings" link in the left sidebar.

Step_2 points to the "Quick Start Settings" link in the left sidebar.

Step_3 points to the "Send" button at the bottom right.

Step_4 points to the "GPRS Settings" section.

Step_5 points to the "Send" button at the bottom right.

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 GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

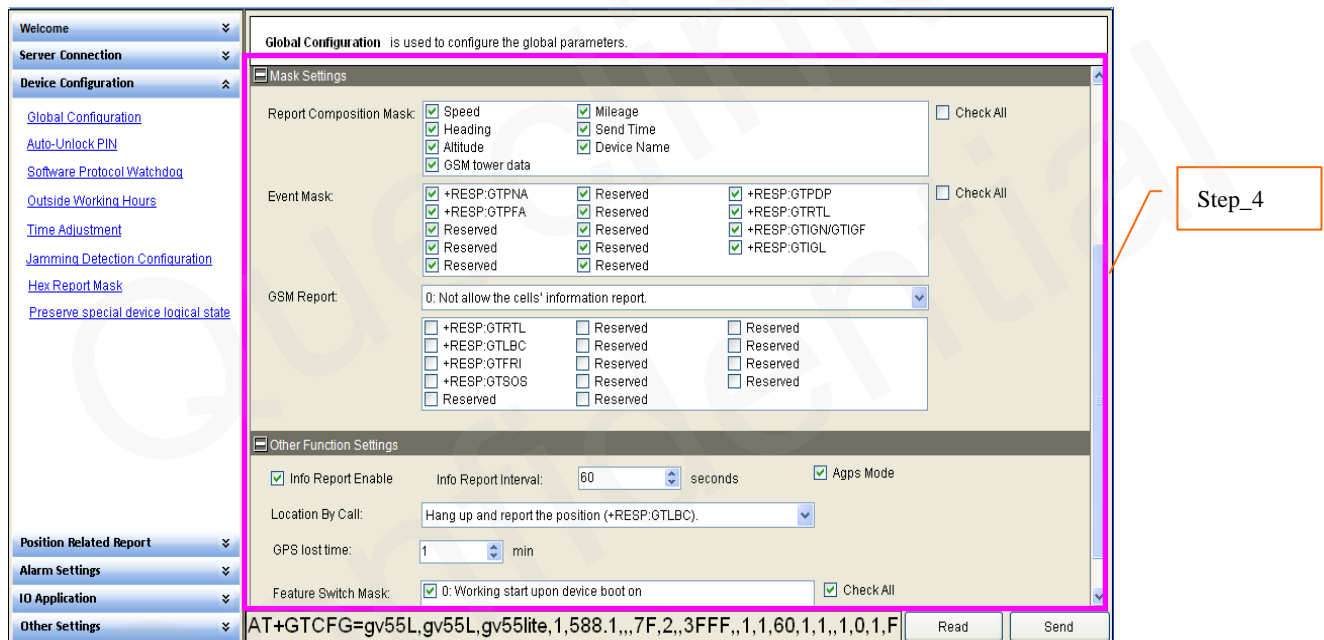
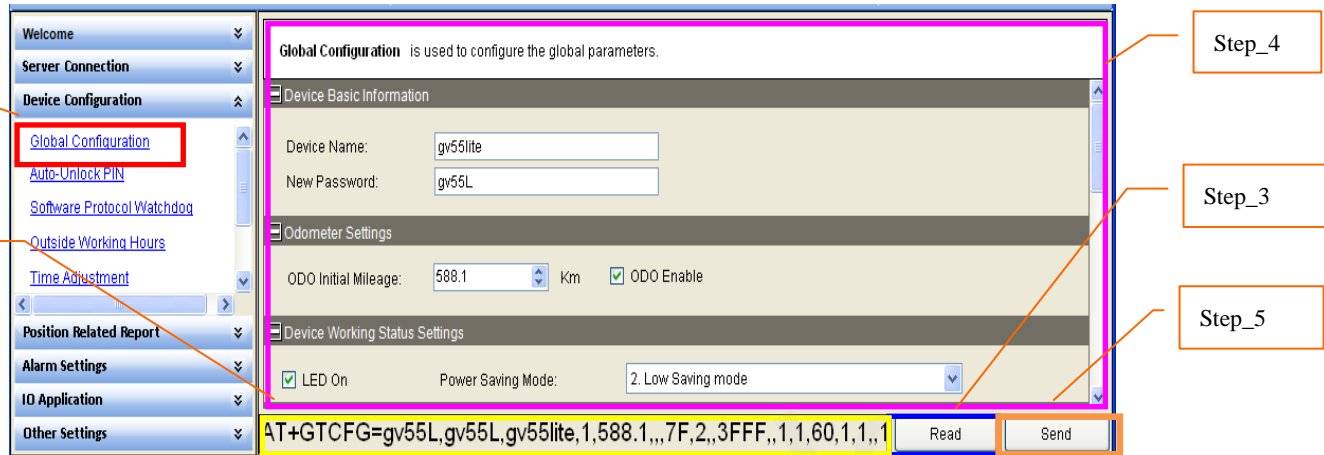
Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the GPRS and backend server information parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTQSS to GV55Lite.

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.

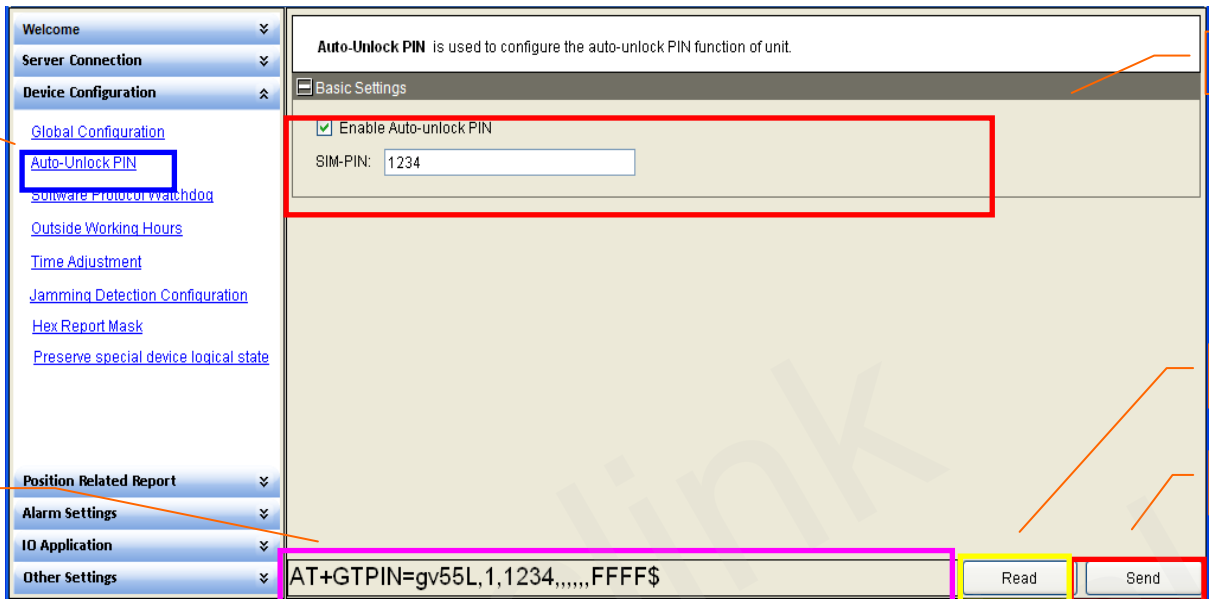
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the global parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTCFG to GV55LITE.

3.2.5. Set the parameters of auto-unlock PIN



The screenshot displays the 'Auto-Unlock PIN' configuration page. The left sidebar contains a tree view with 'Auto-Unlock PIN' selected. The main area shows a 'Basic Settings' section with a checked 'Enable Auto-unlock PIN' checkbox and a 'SIM-PIN' input field containing '1234'. At the bottom, a command input field contains the text 'AT+GTPIN=gv55L,1,1234,,,,,FFFF\$' and two buttons, 'Read' and 'Send'.

Step_1: Select “Auto-Unlock-PIN”, after that the parameters of GTPIN show in Command Operation Space.

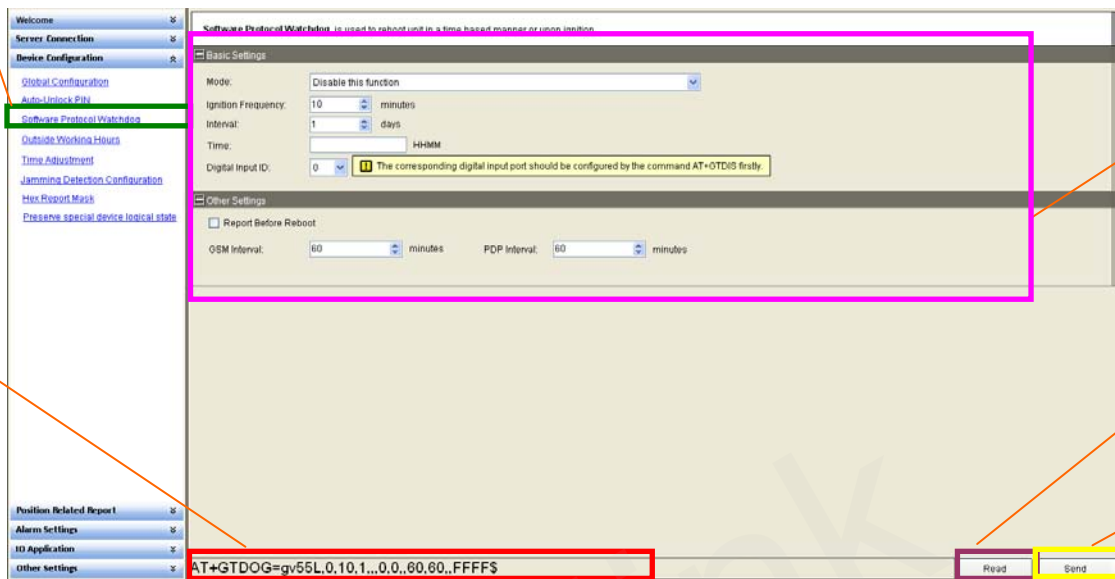
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the auto-unlock PIN parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTPIN to GV55Lite.

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 contains settings for Mode, Ignition Frequency, Interval, Time, Digital Input ID, and Other Settings. The command input field at the bottom contains 'AT+GTDG=gv55L,0,10,1,...,0,0,,60,60,,FFFF\$'. The 'Read' and 'Send' buttons are visible at the bottom right.

Step_1: Select “*Software Protocol Watchdog*”, after that the parameters of GTDOG show in Command Operation Space.

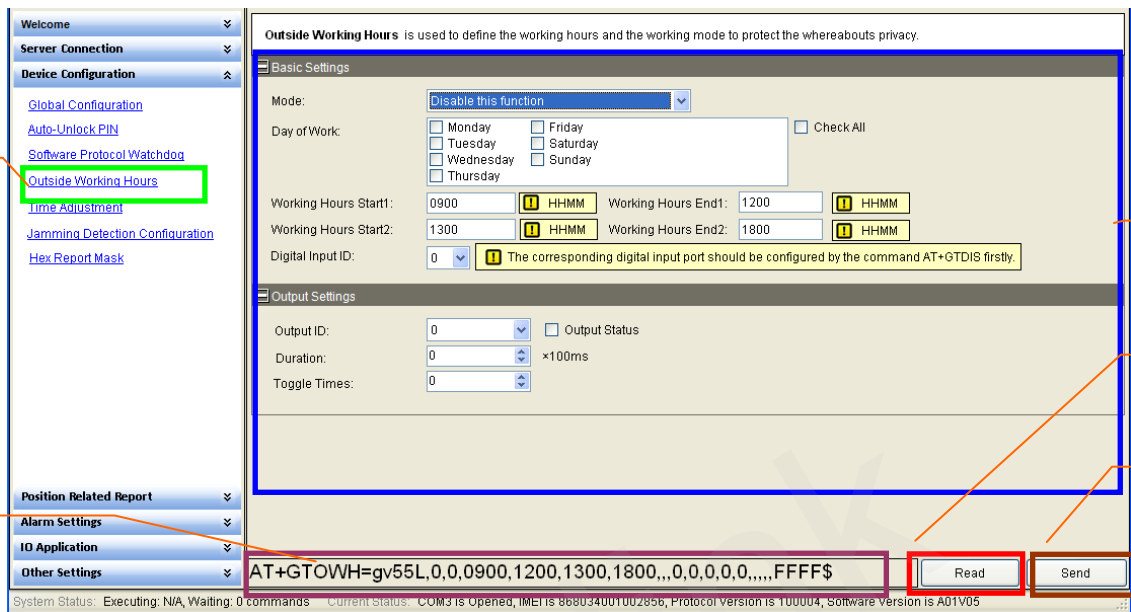
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the software protocol watchdog parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTDOG to GV55Lite.

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 Start' and 'End' fields for two periods. The 'Output Settings' section includes 'Output ID', 'Duration', and 'Toggle Times' fields. At the bottom, a command input field contains 'AT+GTOWH=gv55L,0,0,0900,1200,1300,1800,,0,0,0,0,,FFFF\$'. Below the command field are 'Read' and 'Send' buttons. The system status bar at the very bottom shows 'Executing: N/A, Waiting: 0 commands' and 'Current Status: COM3 is Opened, IMEI is 868034001002856, Protocol Version is 100004, Software Version is A01V05'.

Step_1: Select “*Outside Working Hours*”, after that the parameters of GTOWH show in Command Operation Space.

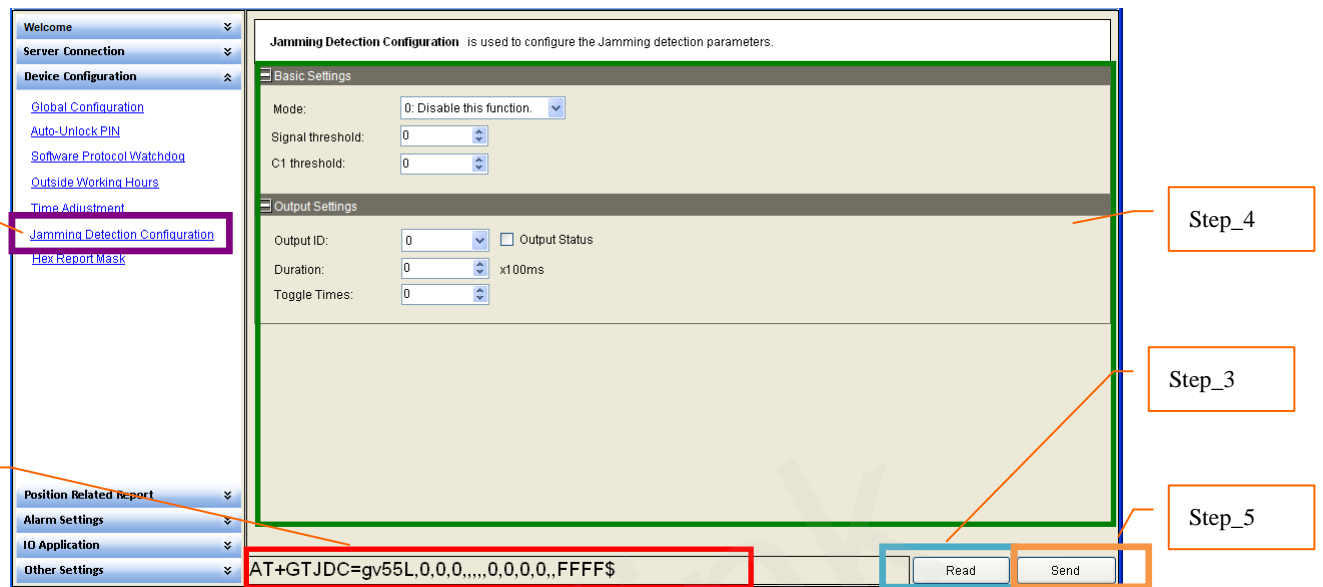
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the outside working hours parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTOWH to GV55Lite.

3.2.9. Set the parameters of jamming detection



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 GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the jamming detection parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTJDC to GV55Lite.

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.

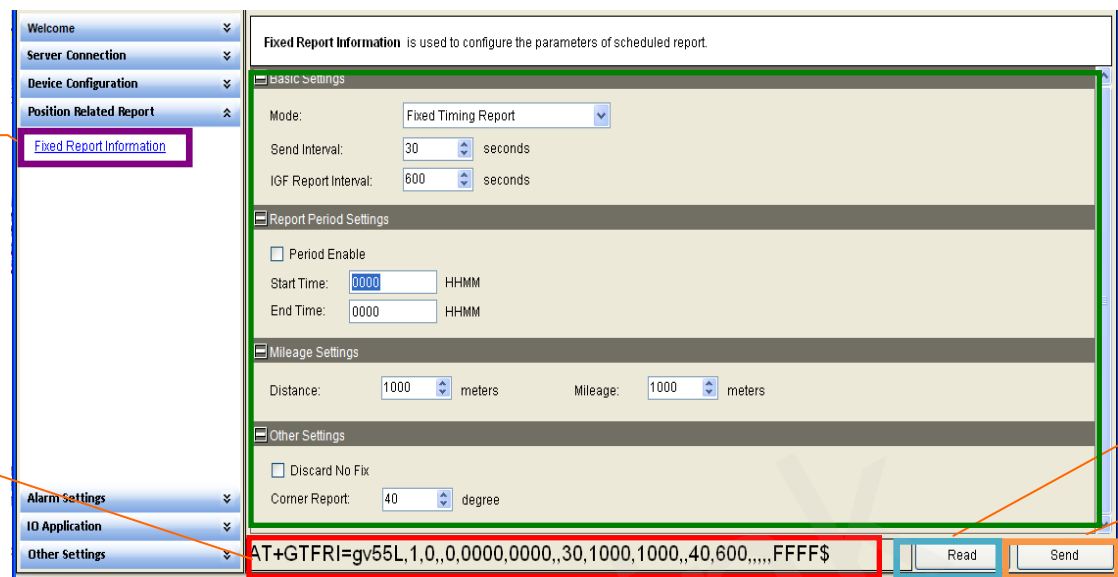
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55LITE and edit based on them.

Step_4: Set the hex report mask parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTHRM to GV55Lite.

3.2.11. Set the parameters of Fixed Report Information



The screenshot shows the 'Fixed Report Information' configuration window. The left sidebar has a menu with 'Fixed Report Information' selected. The main area contains the following settings:

- BASIC Settings:** Mode: Fixed Timing Report; Send Interval: 30 seconds; IGF Report Interval: 600 seconds.
- Report Period Settings:** Period Enable: ; Start Time: 0000 HHMM; End Time: 0000 HHMM.
- Mileage Settings:** Distance: 1000 meters; Mileage: 1000 meters.
- Other Settings:** Discard No Fix: ; Corner Report: 40 degree.

The Command Operation Space at the bottom displays the command: `AT+GTFRI=gv55L,1,0,,0,0000,0000,,30,1000,1000,,40,600,,,,FFFF$`. Below the command are 'Read' and 'Send' buttons.

Step_1: Select “Fixed Report Information”, after that the parameters of GTFRI show in Command Operation Space.

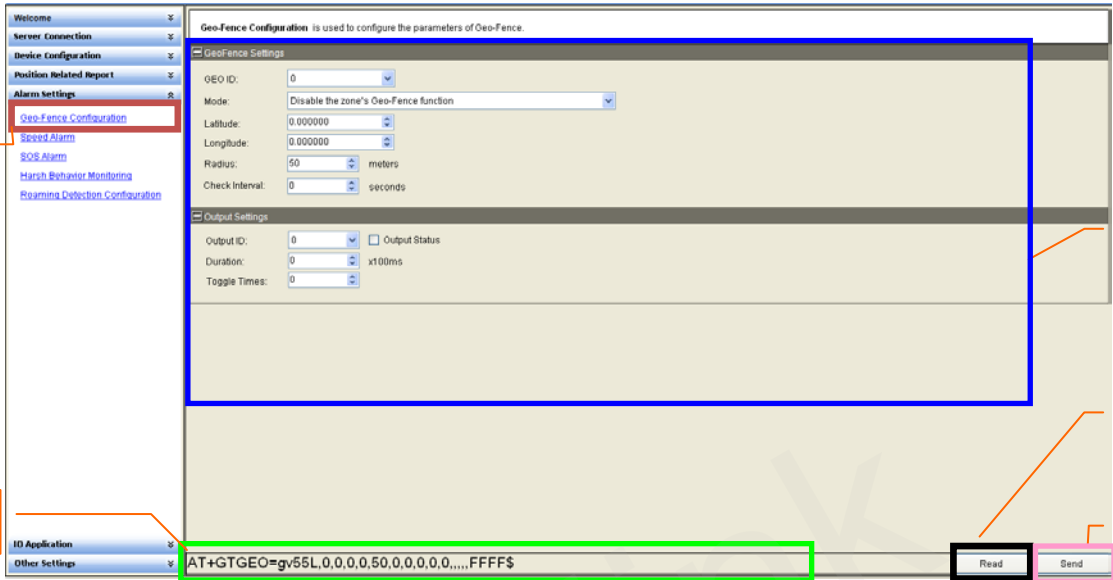
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the scheduled report parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTFRI to GV55Lite.

3.2.12. Set the parameters of Geo-fence information



Step_1: Select “Geo-Fence Configuration”, after that the parameters of GTGEO show in Command Operation Space.

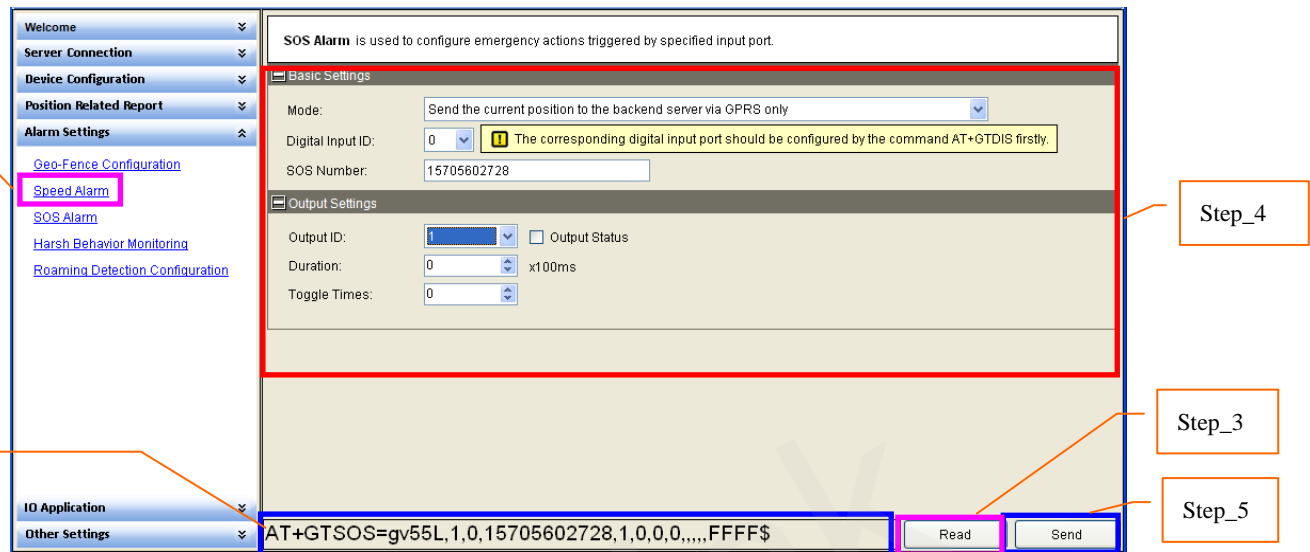
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the Geo-Fence parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTGEO to GV55Lite.

3.2.14. Set the parameters of SOS function



Step_1: Select “SOS Alarm”, after that the parameters of GTSOS show in Command Operation Space.

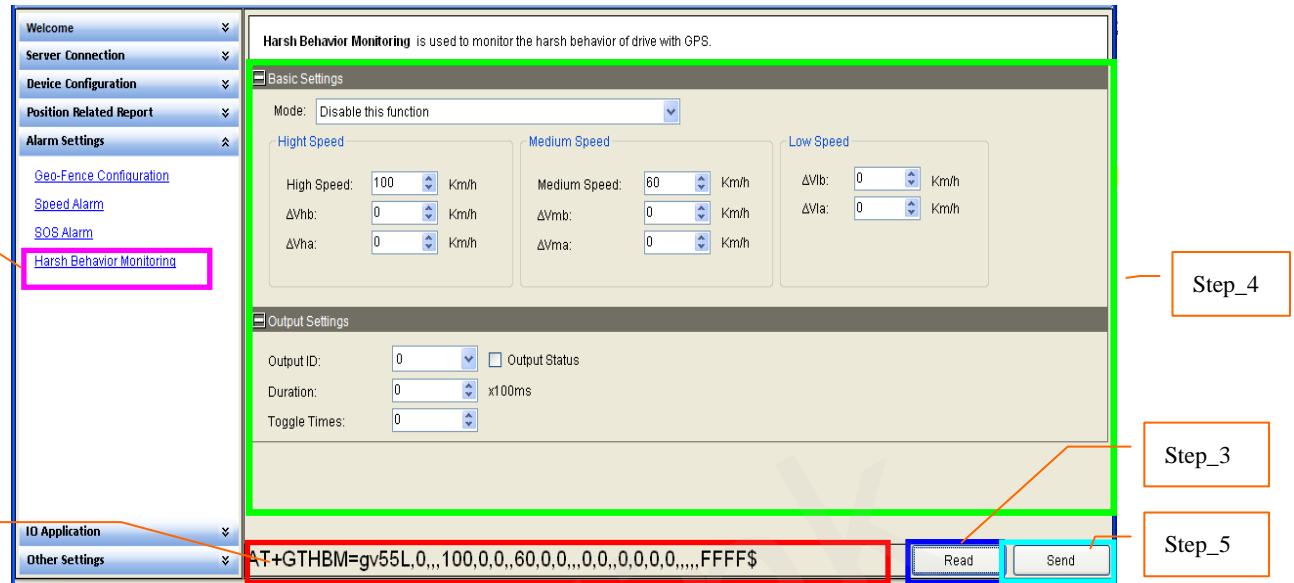
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the SOS alarm parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTSOS to GV55Lite.

3.2.15. Set the parameters of harsh behavior monitoring



Step_1: Select “*Harsh Behavior Monitoring*”, after that the parameters of GTHBM show in Command Operation Space.

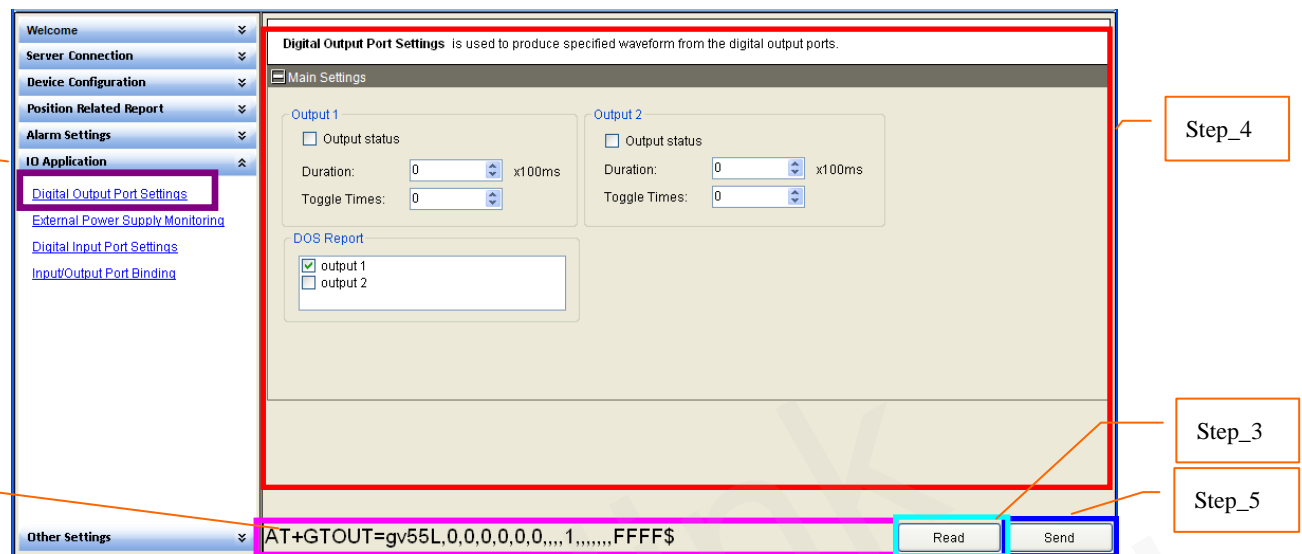
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the harsh behavior monitoring parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTHBM to GV55Lite.

3.2.16. Set the parameters of harsh behavior monitoring



The screenshot displays the 'Digital Output Port Settings' configuration window. 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.' and includes sections for 'Main Settings', 'Output 1', 'Output 2', and 'DOS Report'. The 'Output 1' and 'Output 2' sections each have 'Output status' checkboxes, 'Duration' (0 x100ms), and 'Toggle Times' (0) fields. The 'DOS Report' section has checkboxes for 'output 1' (checked) and 'output 2'. At the bottom, a command field contains 'AT+GTOUT=gV55L,0,0,0,0,0,0,,,1,,,,,FFFF\$' with 'Read' and 'Send' buttons.

Step_1: Select “*Digital Output Port Settings*”, after that the parameters of GTOUT show in Command Operation Space.

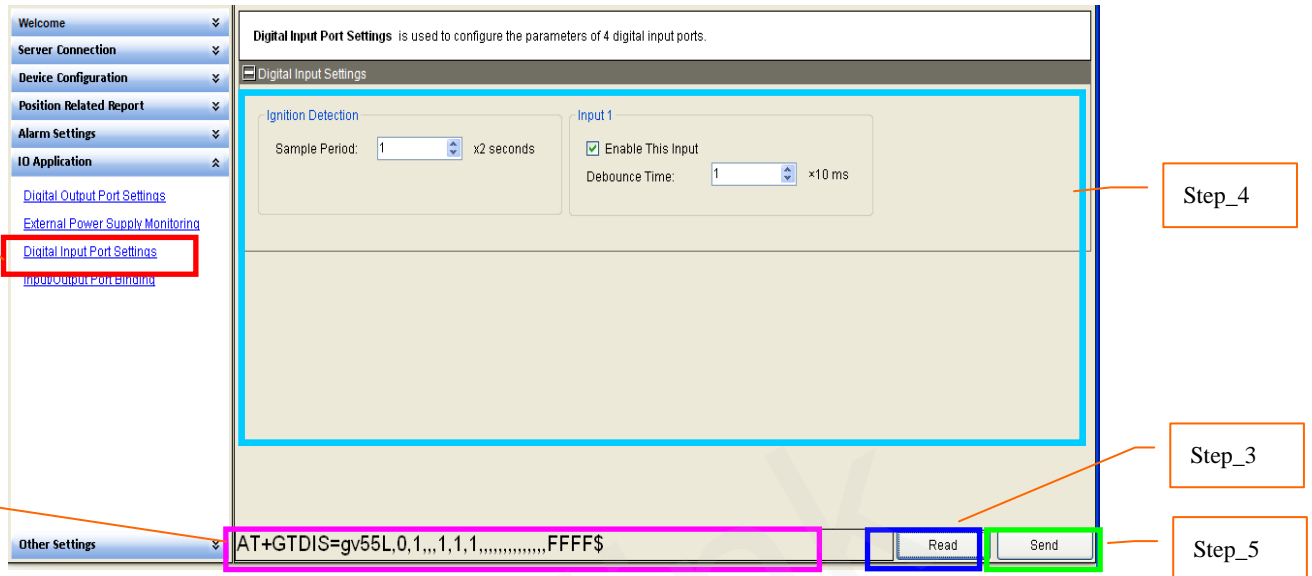
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the digital output parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTOUT to GV55Lite.

3.2.18. Set the parameters of digital input port setting



The screenshot shows the 'Digital Input Port Settings' configuration window. The main area is titled 'Digital Input Settings' and contains two sections: 'Ignition Detection' and 'Input 1'. The 'Input 1' section has a checked 'Enable This Input' box and a 'Debounce Time' of 1 x10 ms. At the bottom, a command input field contains '@AT+GTDIS=gv55L,0,1,...,1,1,1,,,,,,FF\$' and two buttons, 'Read' and 'Send'.

Step_1: Select “*Digital Input Port Setting*”, after that the parameters of GTDIS show in Command Operation Space.

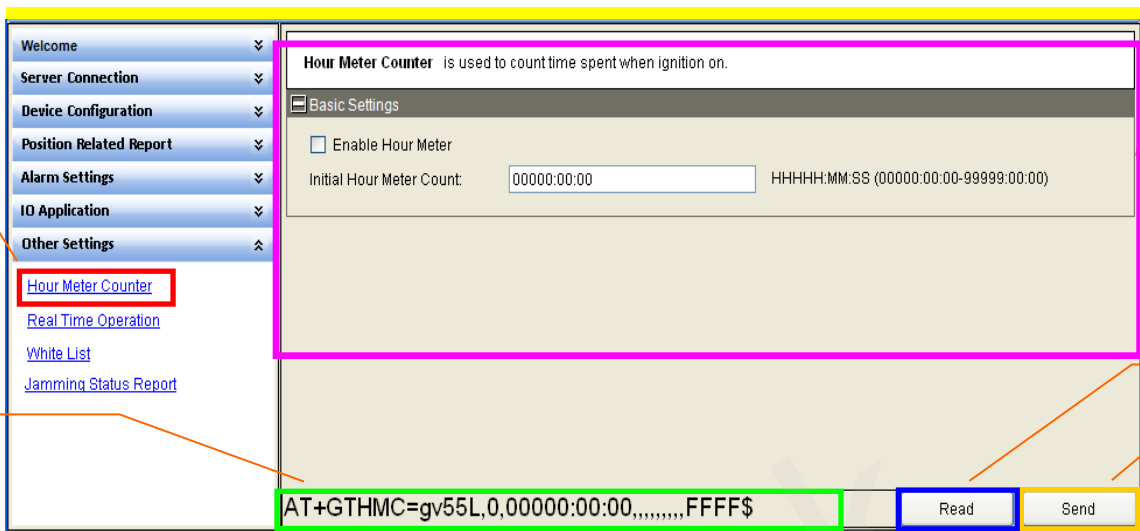
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the Digital Input parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTDIS to GV55Lite.

3.2.20. Set the parameters of hour meter counter



The screenshot shows the 'Hour Meter Counter' configuration screen. The left sidebar contains a menu with 'Hour Meter Counter' selected. The main content area displays the 'Basic Settings' section with an 'Enable Hour Meter' checkbox and an 'Initial Hour Meter Count' field. The bottom command input area shows the command 'AT+GTHMC=gv55L,0,00000:00:00,,,,,,,,,FFFF\$' and 'Read' and 'Send' buttons.

Step_1: Select “*Hour Meter Counter*”, after that the parameters of GTHMC show in Command Operation Space.

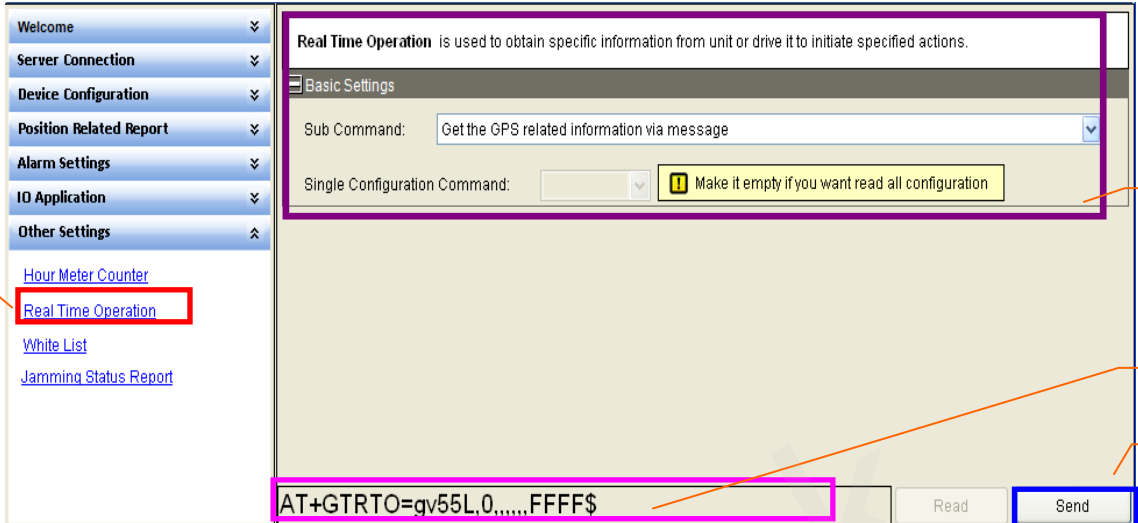
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the hour meter counter parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTHMC to GV55Lite.

3.2.21. Set the parameters of real time operation



The screenshot shows the 'Real Time Operation' configuration window. The left sidebar has a menu with 'Real Time Operation' selected. The main window has a 'Sub Command' dropdown set to 'Get the GPS related information via message' and a 'Single Configuration Command' field with a warning icon and text 'Make it empty if you want read all configuration'. The command input field at the bottom contains 'AT+GTRTO=qv55L,0,,,,,FFFF\$' and a 'Send' button.

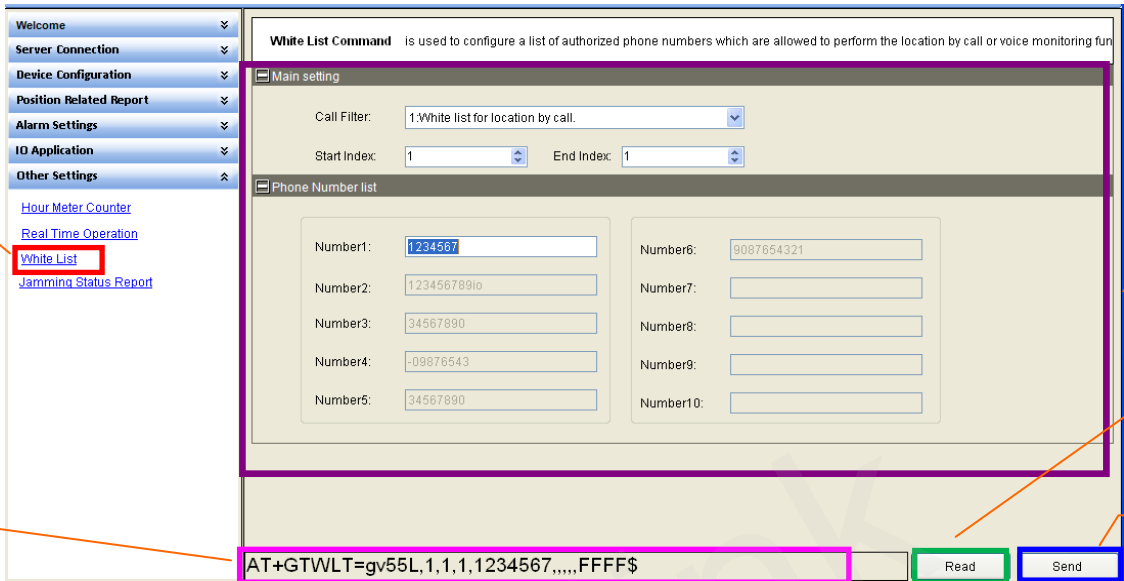
Step_1: Select “*Real Time Operation*”, after that the parameters of GTRTO show in Command Operation Space.

Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55LITE through SMS or GPRS.

Step_3: Set the real time operation parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTRTO to GV55Lite.

3.2.22. Set the parameters of white list setting



The screenshot shows the 'White List Command' configuration page. The left sidebar has 'White List' highlighted. The main area shows 'Main setting' with 'Call Filter' set to '1:White list for location by call.', 'Start Index' at 1, and 'End Index' at 1. Below is the 'Phone Number list' with ten input fields. The first field contains '1234567'. At the bottom, the command 'AT+GTWLT=gv55L,1,1,1,1234567,....,FFFF\$' is displayed in a pink box, with 'Read' and 'Send' buttons to its right.

Step_1: Select “White List”, after that the parameters of GTWLT show in Command Operation Space.

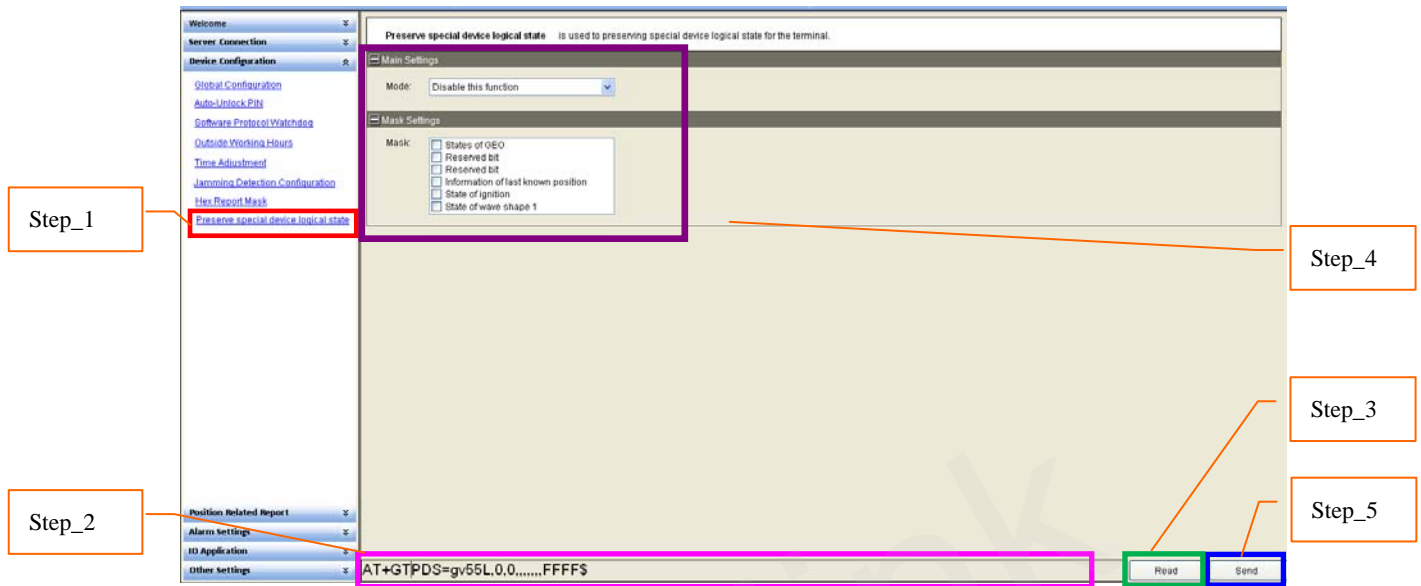
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the white list parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTWLT to GV55Lite.

3.2.23. Set the parameters of Preserve special device logical state setting



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 GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the white list parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTPDS to GV55Lite.

3.2.24. Set the parameters of Roaming Detection Configuration setting

Step_1 points to the 'Roaming Detection Configuration' menu item in the left sidebar.

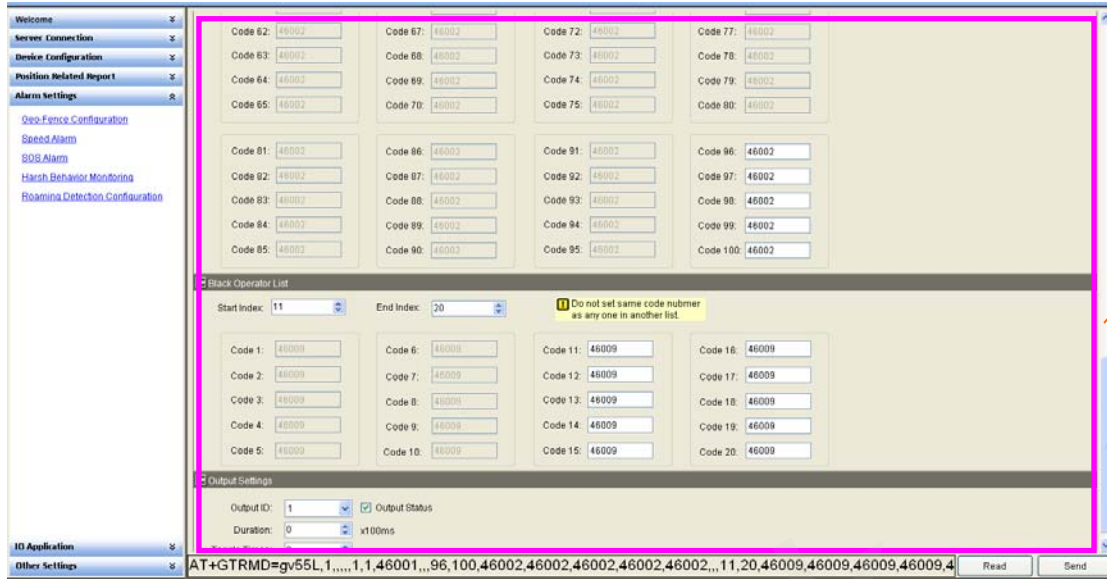
Step_2 points to the 'Roaming Detection Configuration' menu item in the left sidebar.

Step_3 points to the 'Read' button at the bottom right of the configuration window.

Step_4 points to the 'Send' button at the bottom right of the configuration window.

Step_5 points to the 'Send' button at the bottom right of the configuration window.

Step_4 points to the right side of the code grid in the Roaming Operator List window.



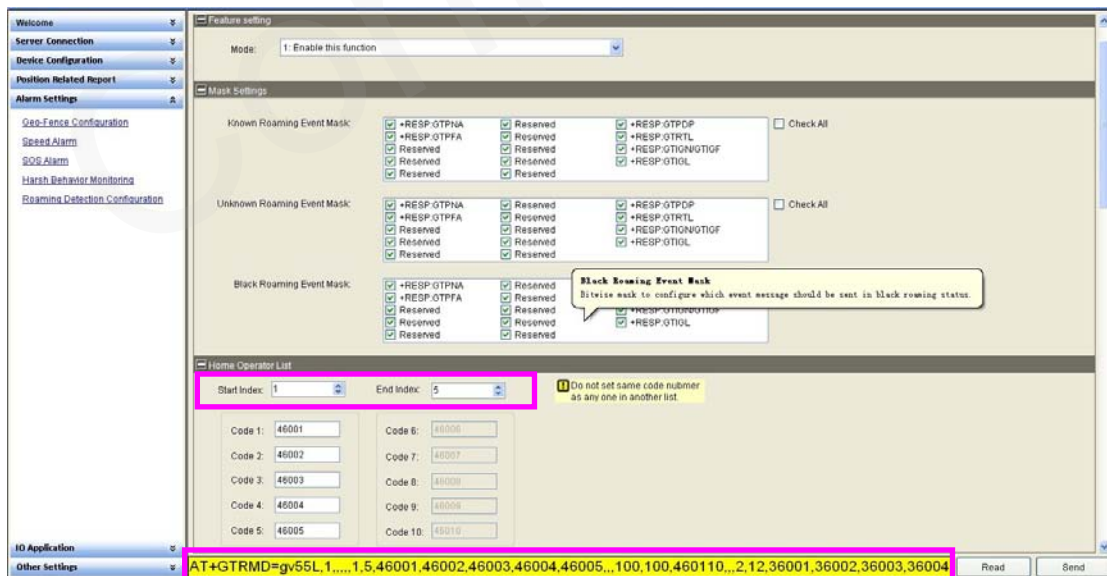
Step_1: Select “Roaming Detection Configuration”, after that the parameters of GTRMD show in Command Operation Space.

Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set each “Start Index” “End Index” and fill PLMN in “Code” text box. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

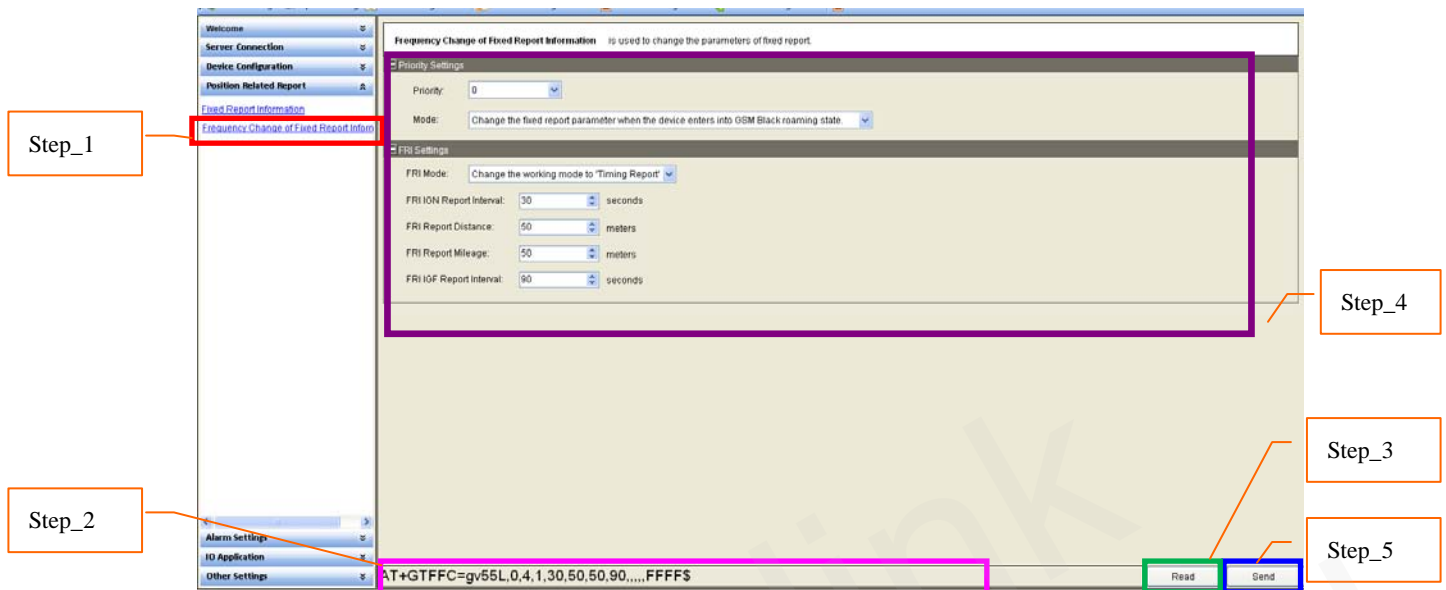
Step_5: Click the “Send” button; download the parameters of GTRMD to GV55Lite.



Note:

Only no more than 180 bytes of an AT command message could be accepted by device. A back color alert will occur on Command Text Box with yellow if it happens, So reset “Start index”, “End index” when it happens.

3.2.25. Set the parameters of Frequency Change of Fixed Report Information setting



Step_1: Select “*Frequency Change of Fixed Report Information*”, after that the parameters of GTFFC show in Command Operation Space.

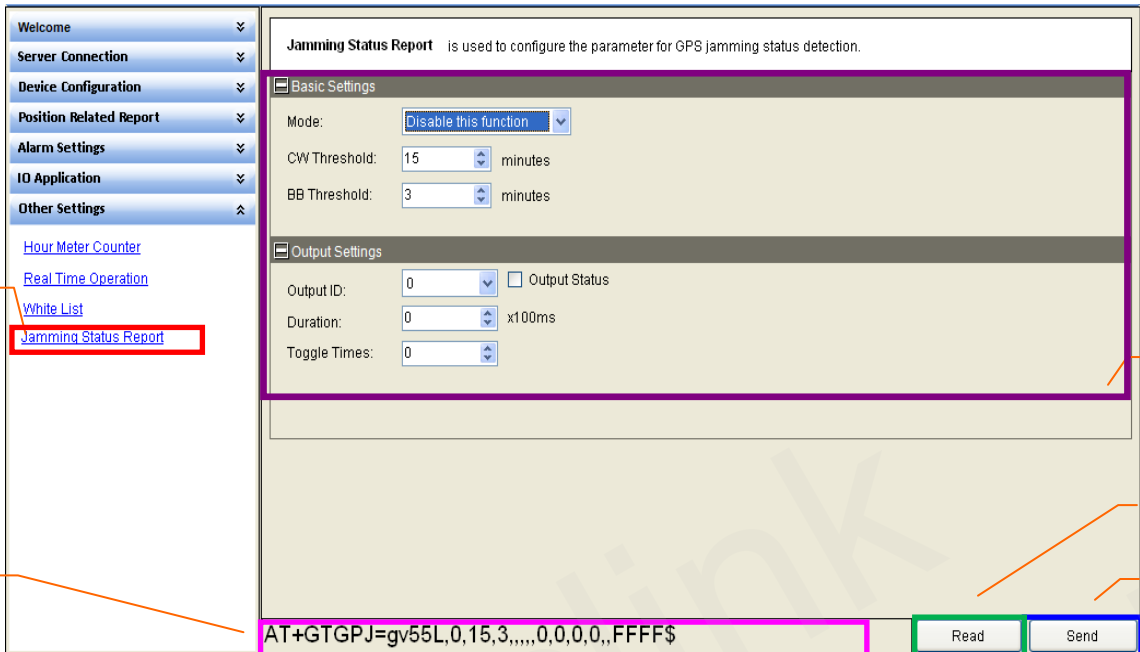
Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the white list parameters. Please refer to “*GV55Lite @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTFFC to GV55Lite.

3.2.26. Set the parameters of GPS jamming status report



The screenshot shows the 'Jamming Status Report' configuration window. The left sidebar has a menu with 'Jamming Status Report' highlighted. The main area is divided into 'Basic Settings' and 'Output Settings'. The 'Basic Settings' section includes 'Mode' (set to 'Disable this function'), 'CW Threshold' (15 minutes), and 'BB Threshold' (3 minutes). The 'Output Settings' section includes 'Output ID' (0), 'Duration' (0 x100ms), and 'Toggle Times' (0). At the bottom, the command 'AT+GTGPJ=gv55L,0,15,3,,,,,0,0,0,0,,FFFF\$' is displayed in a text box, with 'Read' and 'Send' buttons to its right.

Step_1: Select “GPS jamming status report”, after that the parameters of GTGPJ show in Command Operation Space.

Step_2: The command message which shall be sent to GV55Lite will be generated based on input and displayed here. Please note this command message can also be sent to GV55Lite through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV55Lite and edit based on them.

Step_4: Set the white list parameters. Please refer to “GV55Lite @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTGPJ to GV55Lite.

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*”.

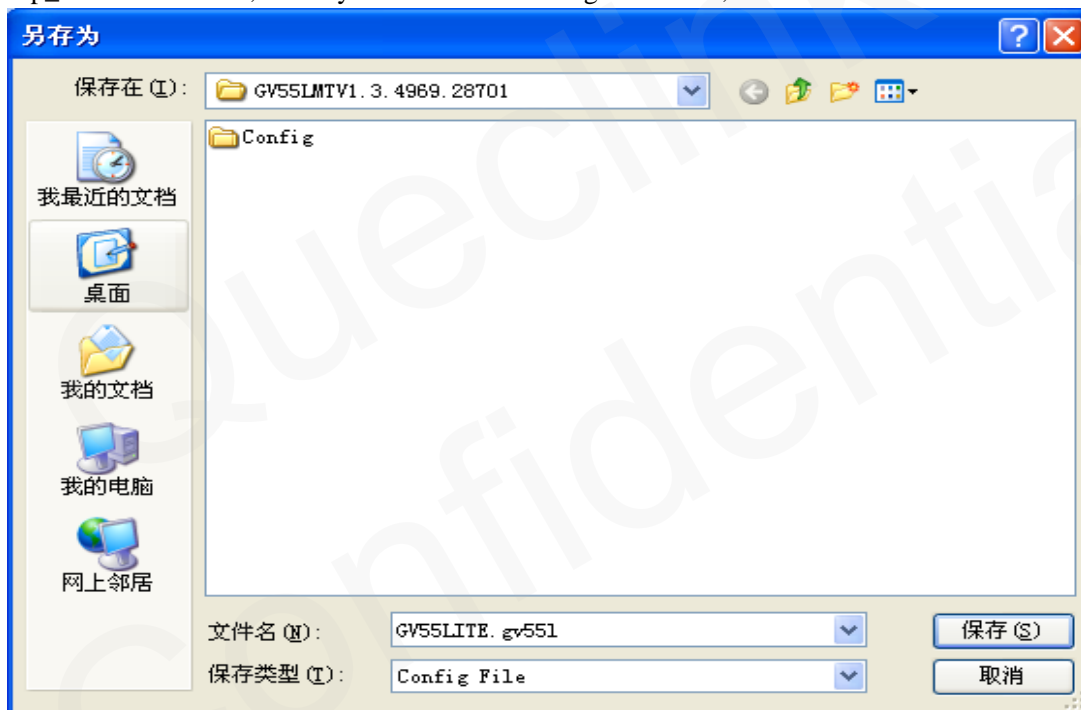


NOTE:Command GTRTO will not be read when “Read From Device”.

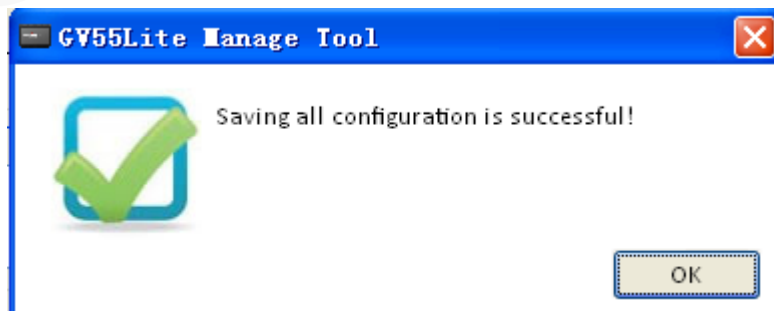
Step_2: After read successfully, click “*Save All Configuration*” in toolbar.



Step_3: Select a folder, and key in the name of configuration file, then click “*Save*” button.

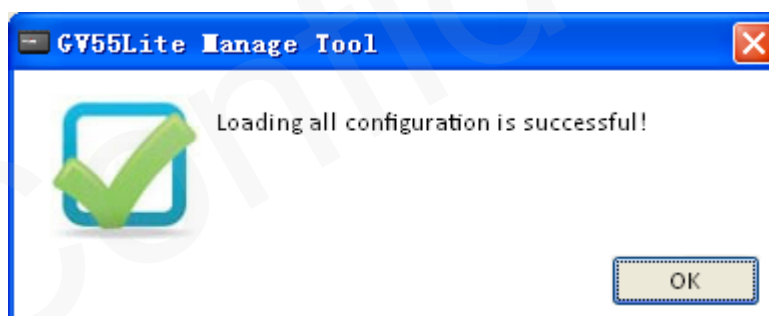
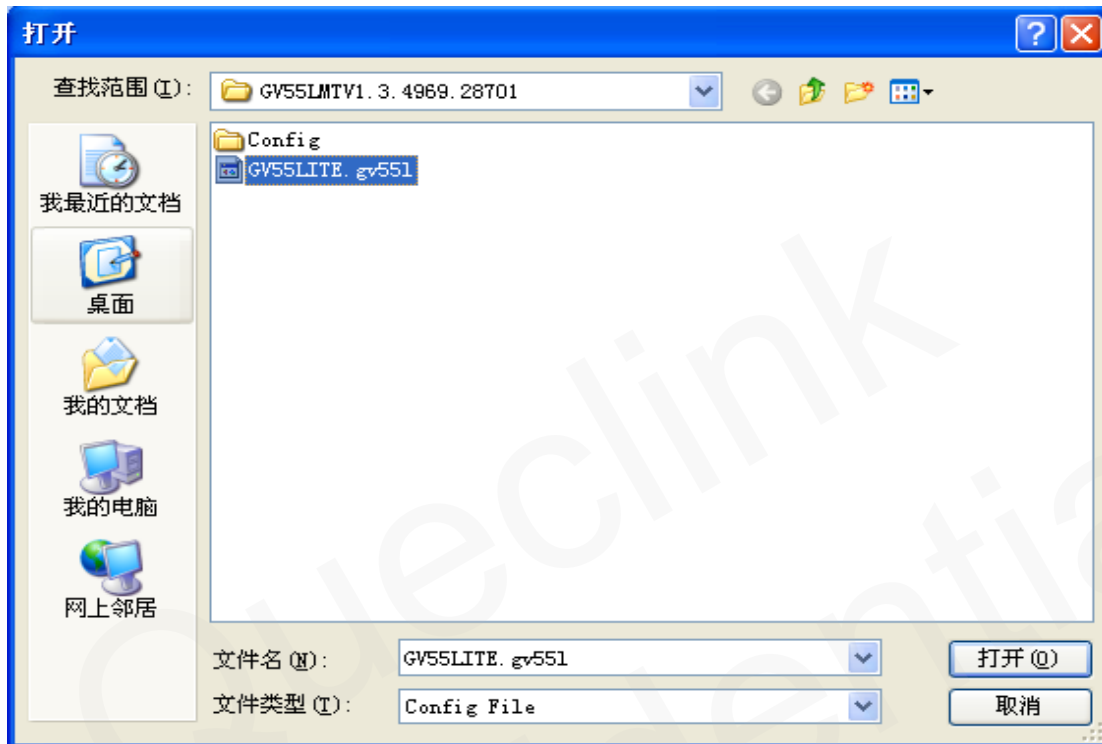


Step_4: Save successfully.



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.