



GSM/GPRS/GPS Tracker **GV200** Manage Tool User Guide

TRACGV200MT002

Revision: 1.11



<http://www.queclink.com>
sales@queclink.com

Document Title	GV200 Manage tool User Guide
Version	1.11
Date	2012-02-22
Status	Release
Document Control ID	TRACGV200MT002

General Notes

Queclink offers this information as a service to its customers, to support application and engineering efforts that use the products designed by Queclink. The information provided is based upon requirements specifically provided to Queclink by the customers. Queclink has not undertaken any independent search for additional relevant information, including any information that may be in the customer's possession. Furthermore, system validation of this product designed by Queclink within a larger electronic system remains the responsibility of the customer or the customer's system integrator. All specifications supplied herein are subject to change.

Copyright

This document contains proprietary technical information which is the property of Queclink Limited., copying of this document and giving it to others and the using or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights reserved in the event of grant of a patent or the registration of a utility model or design. All specification supplied herein are subject to change without notice at any time.

Copyright © Shanghai Queclink Wireless Solutions Ltd. 2011

Contents

Contents	2
1. Revision History	4
2. GV200 Manage Tool Interface	5
2.1. System Requirements	5
2.2. COM Setting	6
2.3. Quick Setting Wizard	6
2.4. Professional Setting Windows.....	7
2.4.1. Title Bar.....	7
2.4.2. Menus.....	7
2.4.3. Toolbar	10
2.4.4. Status Bar	10
2.4.5. Command Browser and Command Operation Space.....	11
2.5. Operation Result Interface.....	13
2.5.1. Operation Successfully Interface.....	13
2.5.2. Operation Failed Interface.....	13
3. Operation Instruction	15
3.1. Device Configuration with Quick Setting Wizard.....	15
3.1.1. Welcome to Quick Setting Wizard	15
3.1.2. GPRS Network Setting.....	15
3.1.3. Main Server Setting.....	16
3.1.4. Fixed Time Report Setting	17
3.1.5. Send Command to Device.....	18
3.2. Device Configuration in Professional Setting Mode.....	20
3.2.1. Set the parameters of bearer setting information.....	20
3.2.2. Set the parameters of backend server register information	20
3.2.3. Set the parameters of quick start settings	22
3.2.4. Set the parameters of global configuration.....	23
3.2.5. Set the parameters of auto-unlock PIN.....	24
3.2.6. Set the parameters of protocol watchdog	25
3.2.7. Set the parameters of outside working hours	26
3.2.8. Set the parameters of time adjustment	27
3.2.9. Set the hex format report message	28
3.2.10. Set the parameters of fixed report information.....	29
3.2.11. Set the parameters of Geo-fence information.....	30
3.2.12. Set the parameters of tow alarm configuration.....	31
3.2.13. Set the parameters of speed alarm.....	32
3.2.14. Set the parameters of SOS function	33

3.2.15.	Set the parameters of excessive idling detection.....	34
3.2.16.	Set the parameters of harsh behavior monitoring.....	35
3.2.17.	Set the parameters of digital output port	36
3.2.18.	Set the parameters of analog input port setting	37
3.2.19.	Set the parameters of digital input port setting.....	38
3.2.20.	Set the parameters of multi analog input port	39
3.2.21.	Set the parameters of input/output port binding.....	40
3.2.22.	Set the parameters of voice monitoring.....	41
3.2.23.	Set the parameters of second serial port.....	42
3.2.24.	Set the parameters of transparent data transmission.....	43
3.2.25.	Set the parameters of hour meter counter.....	43
3.2.26.	Set the parameters of white list	44
3.2.27.	Set the parameters of button call	45
3.2.28.	Set the parameters of real time operation.....	46
3.3.	Read/Save All Configuration.....	47
3.4.	Load/Send All Configuration	49

1. Revision History

Revision	Date	Author	Description of change
1.00	2011-01-24	Ella HUANG	Initial
1.06	2011-06-20	Wogle zhou	Instruction of the Manage Tool V1.4 which apply to software version GV200R00A08V04M128_TOSHIBA.
1.07	2011-08-26	Wogle zhou	Add chapter2.1 to define system requirements.
1.08	2011-09-30	Wogle zhou	Add chapter3.2.24 and 3.2.25 to introduce how to configure the white list and button call.
1.09	2011-12-10	Wogle zhou	Instruction of the Manage Tool V1.9 which apply to software version GV200R00A10V02M128_TOSHIBA.
1.10	2012-01-16	Wogle zhou	Instruction of the Manage Tool V1.94 which apply to software version GV200R00A11V01M128_TOSHIBA.
1.11	2012-02-22	Wogle zhou	Add chapter3.2.9 and 3.2.23 to introduce how to configure the hex format parameters and second serial port parameters

2. GV200 Manage Tool Interface

GV200 manage tool is PC software which can be used to configure GV200 through UART. It is easy for the backend server developers to configure GV200 with manage tool, which has friendly user interface. The correct command messages sent to GV200 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 GV200 before selling. But it is strongly recommended to establish a backend server and implement the way to control GV200 by SMS or GPRS. Please refer to “GV200 @Track Air Interface Protocol” for detail.

Before using the manage tools please install driver for the USB to RS232 cable. After that a new COM port can be found in the PC system, and then please follow the steps as below:

1. Connect GV200 to 12VDC power supply and GV200 will power on.
2. Connect GV200 to PC with USB to RS232 cable.
3. Run “GV200 Manage Tool Vx.xx.exe”.

2.1. System Requirements

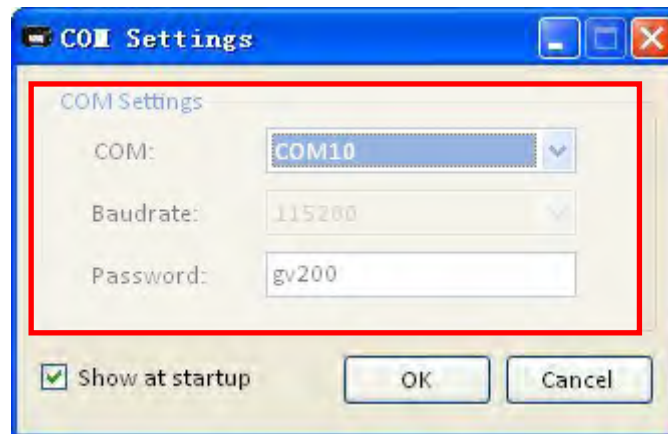
In order for this manage tool to run on your computer, you must use it in below operating system:

- ◆ 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 (“gv200” in default), and click “OK” button, then setting window will display.

2.3. Quick Setting Wizard

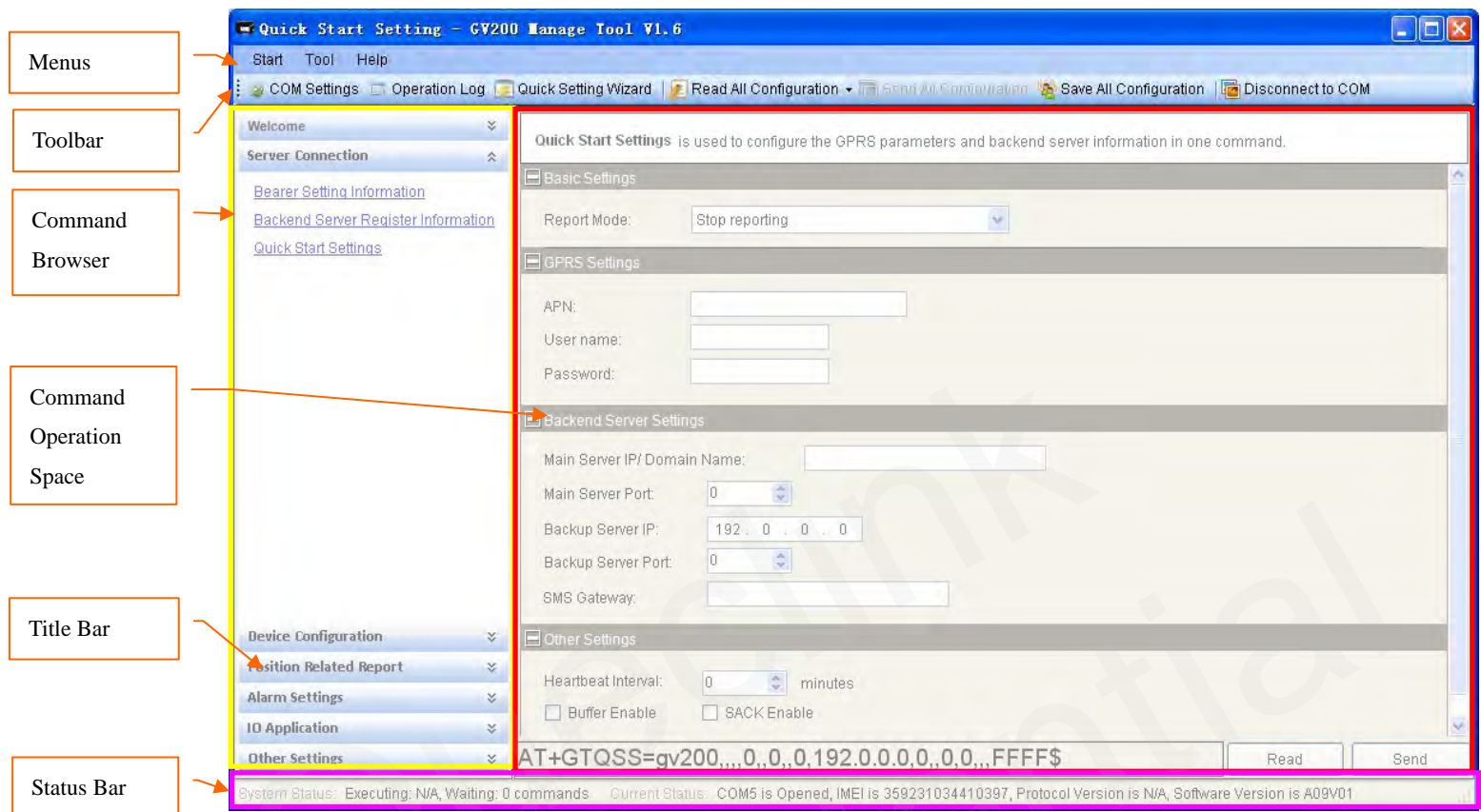
The quick setting wizard gives a basic setting for device. If you want use more functions of GV200, please change to enter professional setting mode.

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

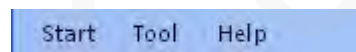


2.4.1. Title Bar

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”.

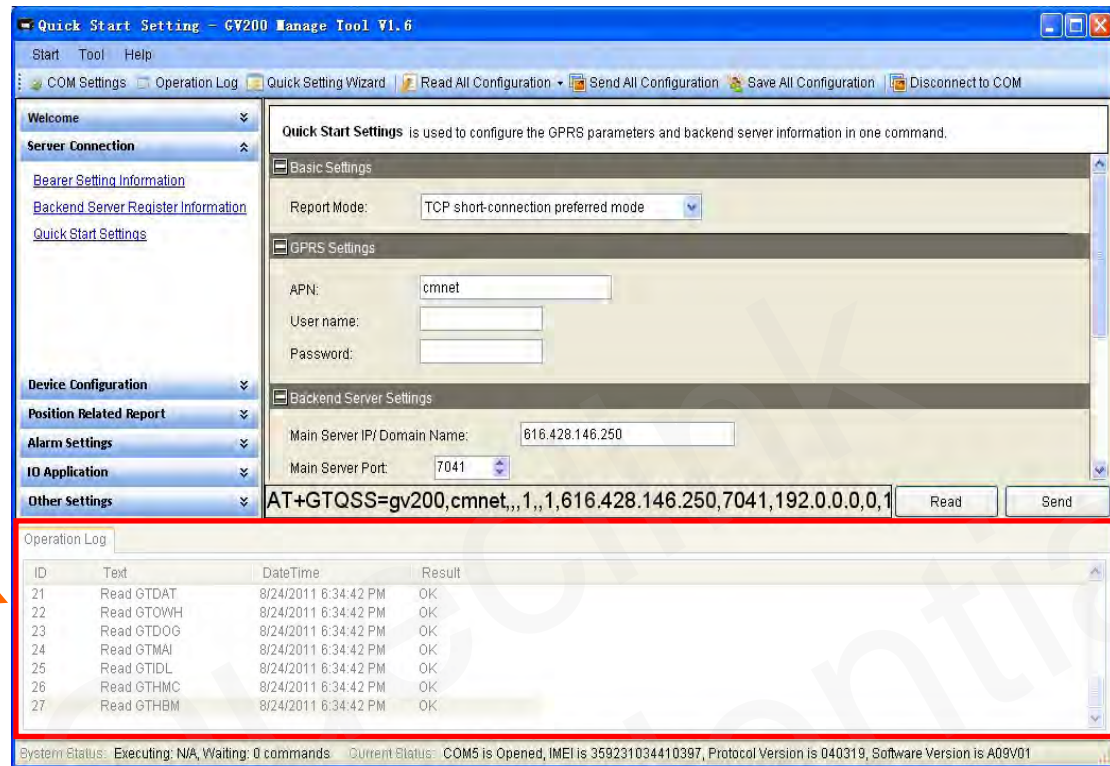
[COM Setting]: It is used to set the COM information and password Setting details please refer to chapter 2.2

2.4.2.2 Tool Menu

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

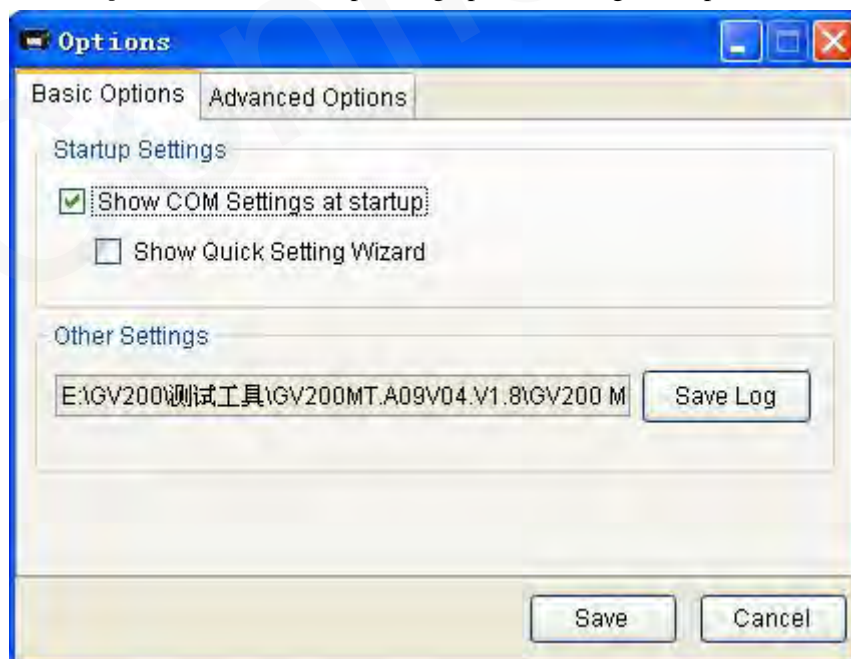
[Quick Setting Wizard]: It is used to open quick setting wizard directly. Please refer to chapter 3.1 for details.

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



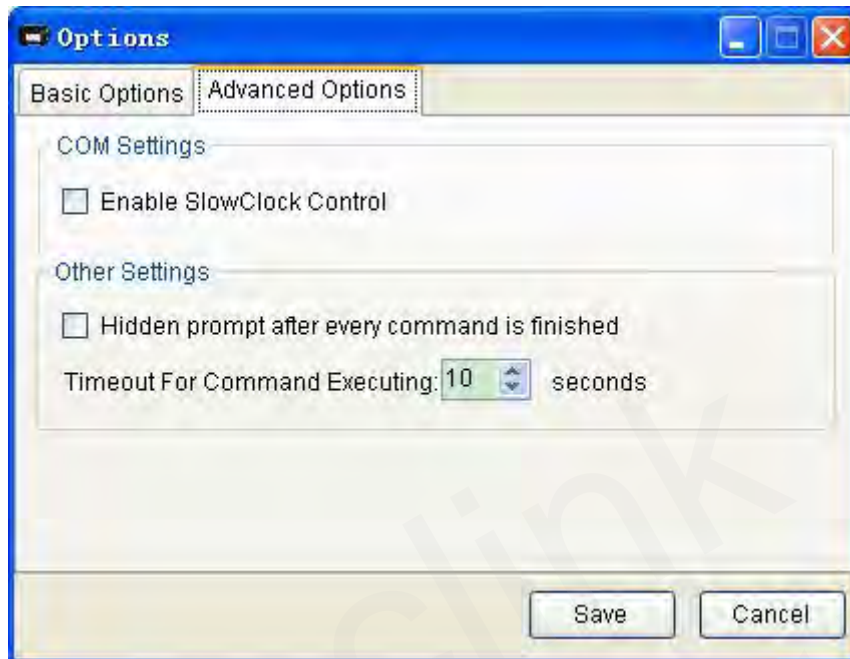
[Options]: It is used to set the basic setting of manage tool.

“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.

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”.

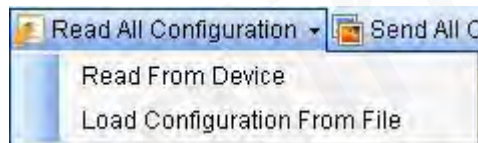


[COM Setting]: It is used to set the COM information and password. Setting details please refer to chapter 2.2.

[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 for details.

[Read All Configuration]: It is used to display/hidden operation log.



“*Read From Device*”: It is used to read all configuration 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 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



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

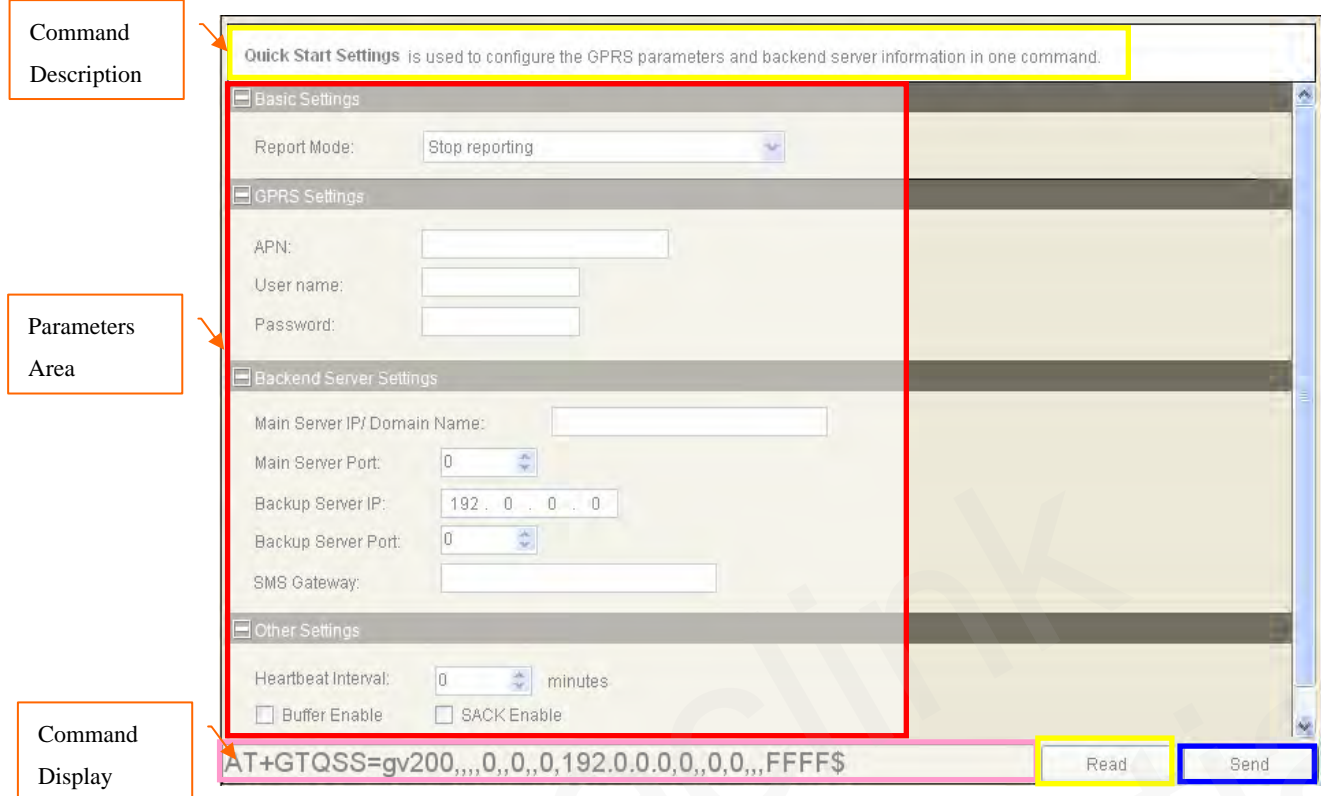
This area is mainly read and set parameters of device

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	GTDG
	Outside Working Hours	GTOWH
	Time Adjustment	GTTMA
	Hex Report Mask	GTHRM
Position Related Report	Fixed Position 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
IO Application	Digital Output Port Settings	GTOUT
	Analog Input Port Settings	GTAIS
	Digital Input Port Settings	GTDIS
	Multi Analog Input Port Settings	GTMAI
	Input/Output Port Binding	GTIOB
Other Settings	Voice Monitor	GTMON
	Second Serial Port Setting	GTURT
	Transparent Data Transmission	GTDAT
	Hour Meter Counter	GTHMC
	White Call List Configuration	GTWLT
	Button Call Setting	GTBCS
	Real Time Operation	GTRTO

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.

Parameters Area

Basic Settings

Report Mode: Stop reporting

GPRS Settings

APN:

User name:

Password:

Backend Server Settings

Main Server IP/ Domain Name:

Main Server Port:

Backup Server IP:

Backup Server Port:

SMS Gateway:

Other Settings

Heartbeat Interval: minutes

Buffer Enable SACK Enable

Command Display

AT+GTQSS=gv200,,,0,,0,,0,192.0.0.0,0,,0,0,,,FFFF\$

Read Send

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

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

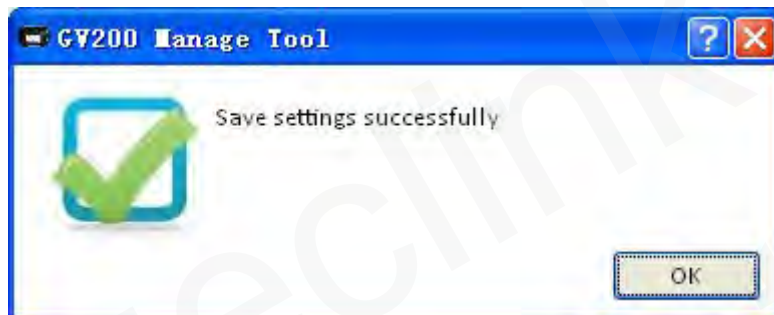
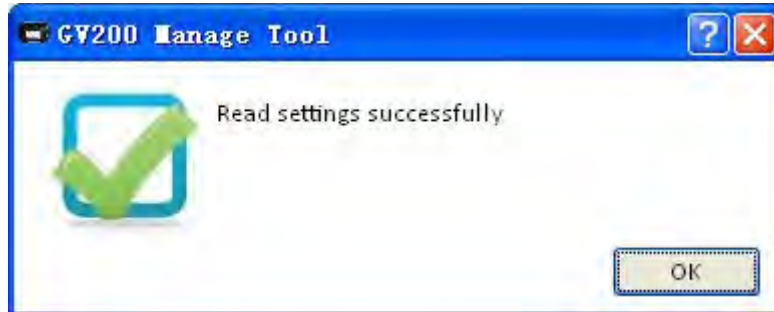
[Command Display]: Command with parameters in parameters area display in this area.

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

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

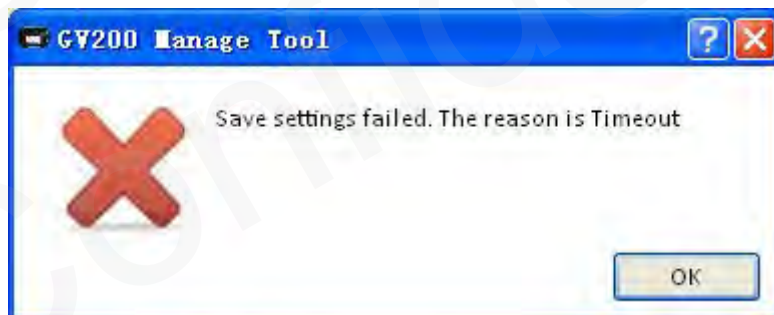
2.5. Operation Result Interface

2.5.1. Operation Successfully Interface

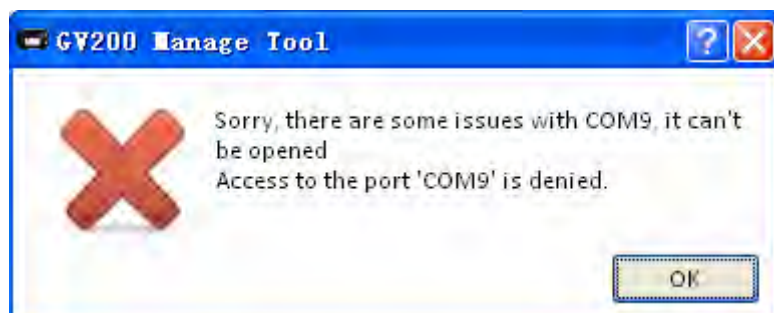


2.5.2. Operation Failed Interface

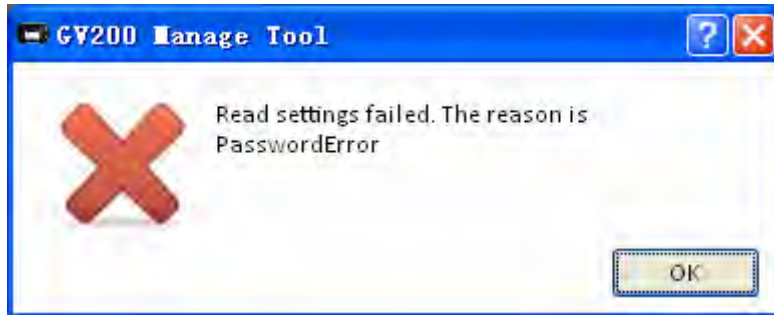
There should be COM port connection problem if the fail reason is timeout.



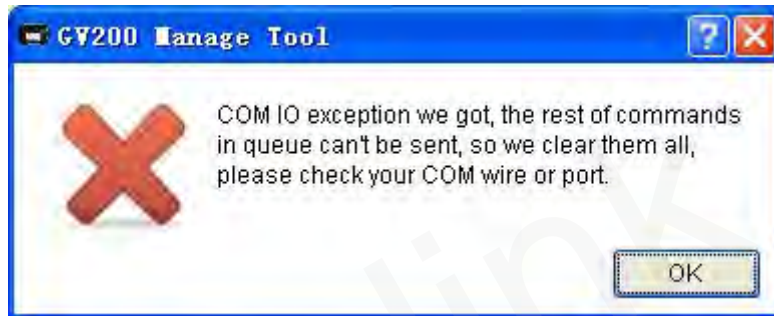
There should be COM port is occupied. Please close all other COM-related applications.



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

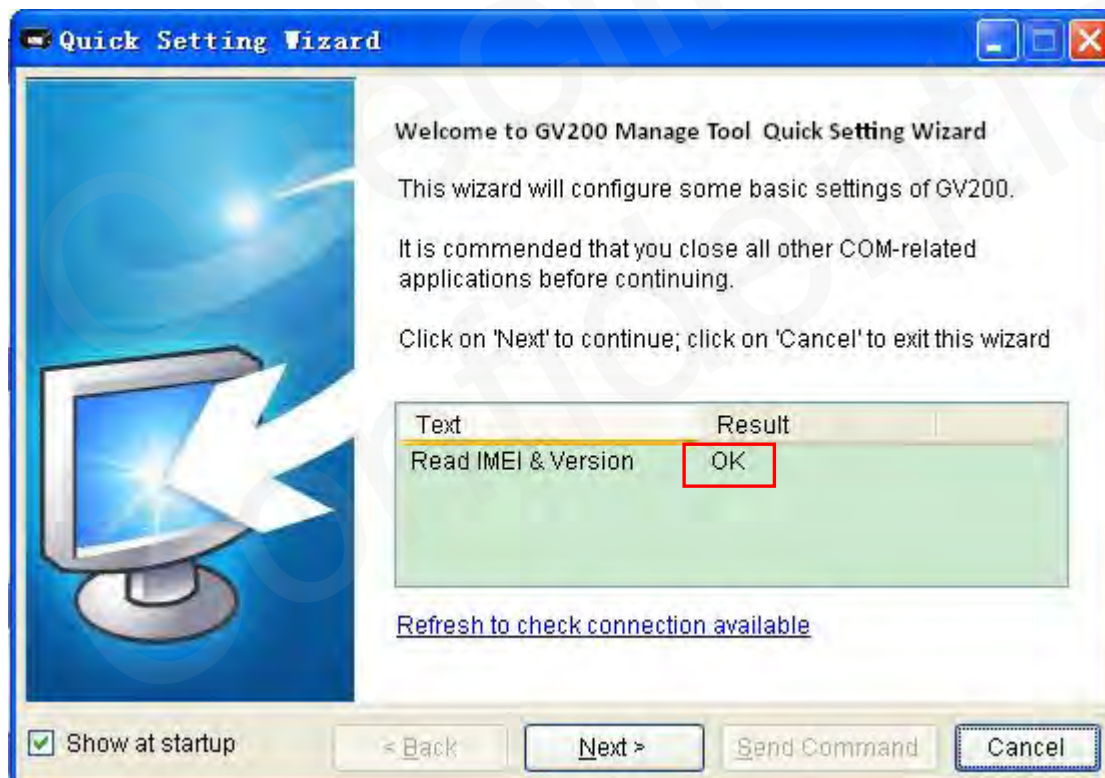
3.1. Device Configuration with Quick Setting Wizard

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to “GV200 @Track Air Interface Protocol” for detail.

The quick setting wizard gives a basic setting for device. If you want use more functions of GV200, 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.

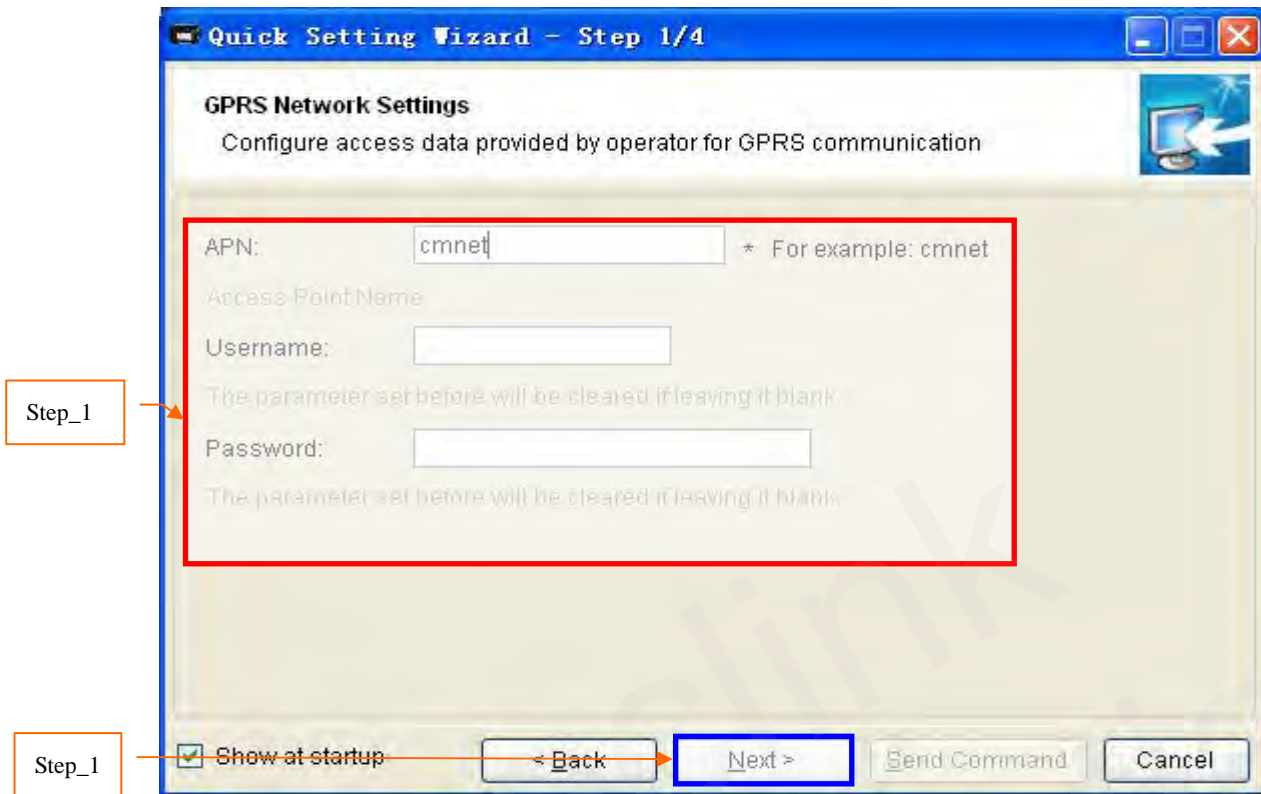


Welcome to Quick Setting Wizard

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 “GV200 @Track Air Interface Protocol” for detail.

Step_2: Then click “Next”.

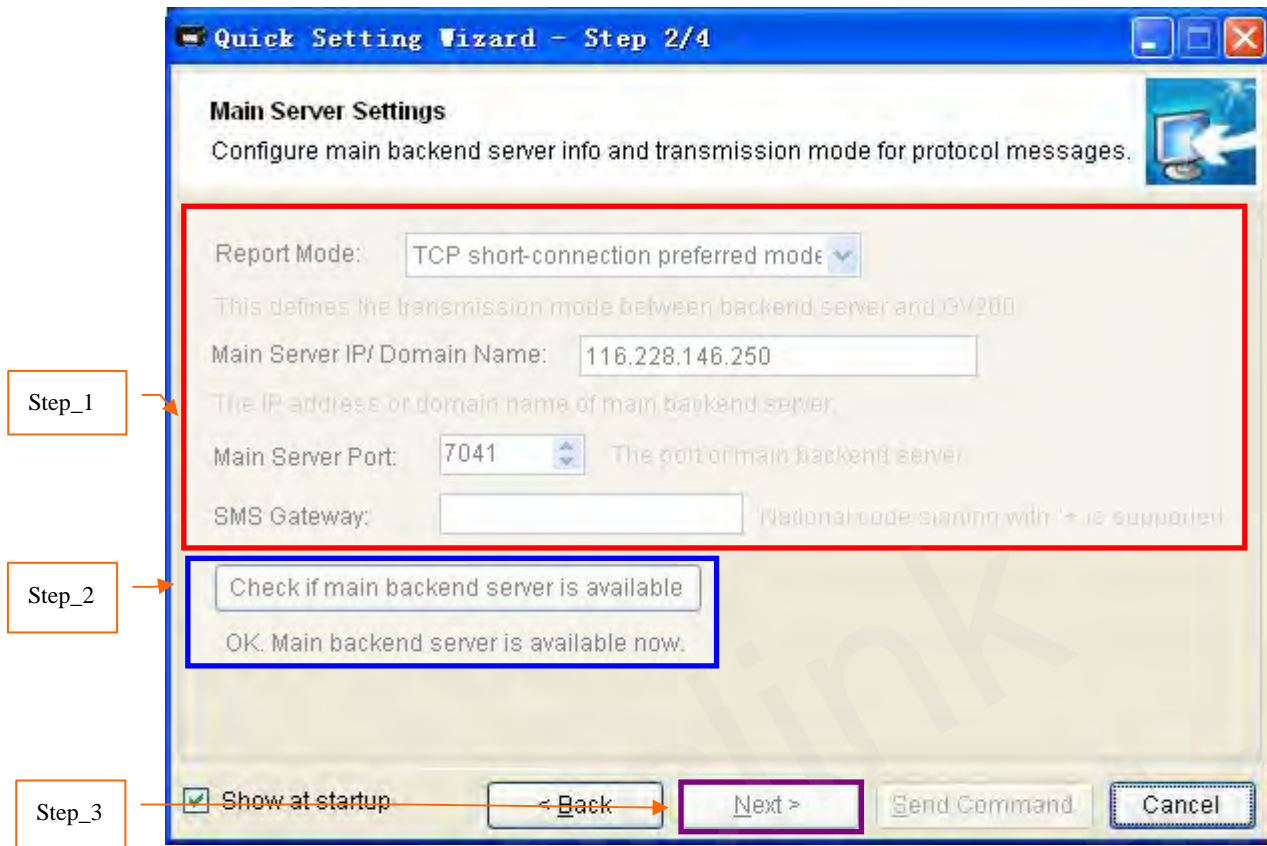


3.1.3. Main Server Setting

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 “GV200 @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.

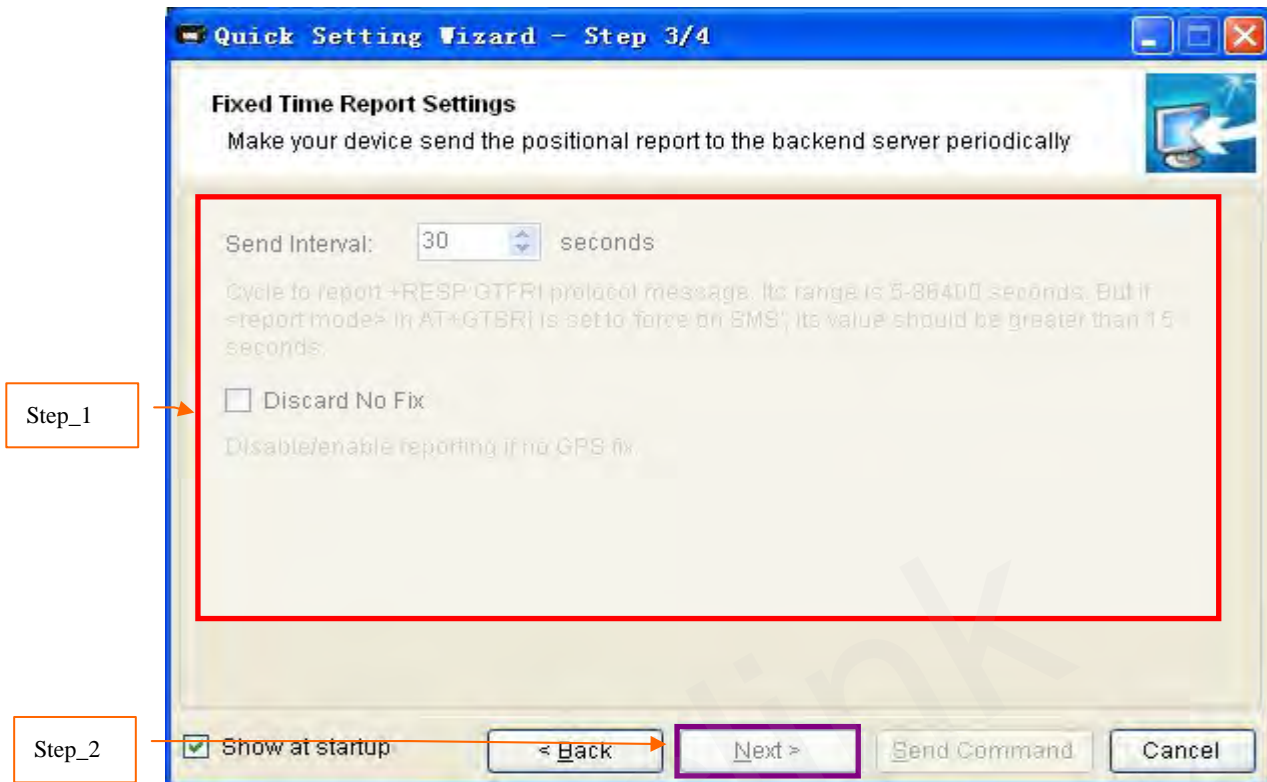
Step_3: Click “Next”.



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 “GV200 @Track Air Interface Protocol” for detail.

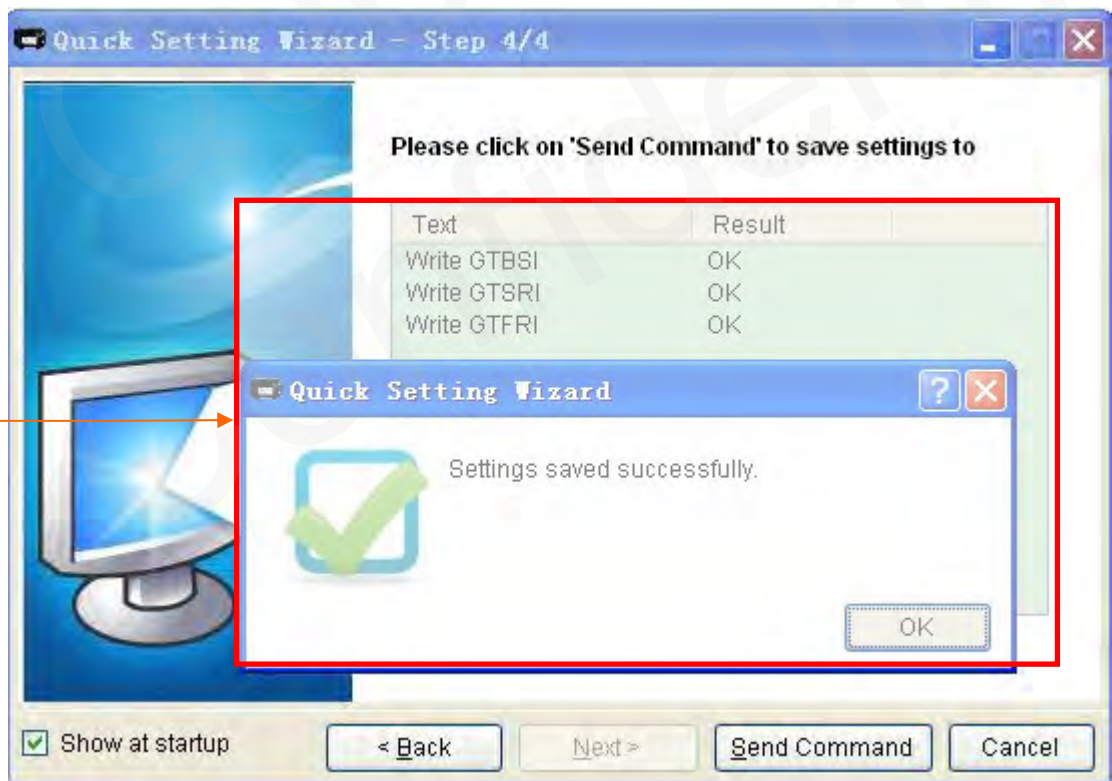
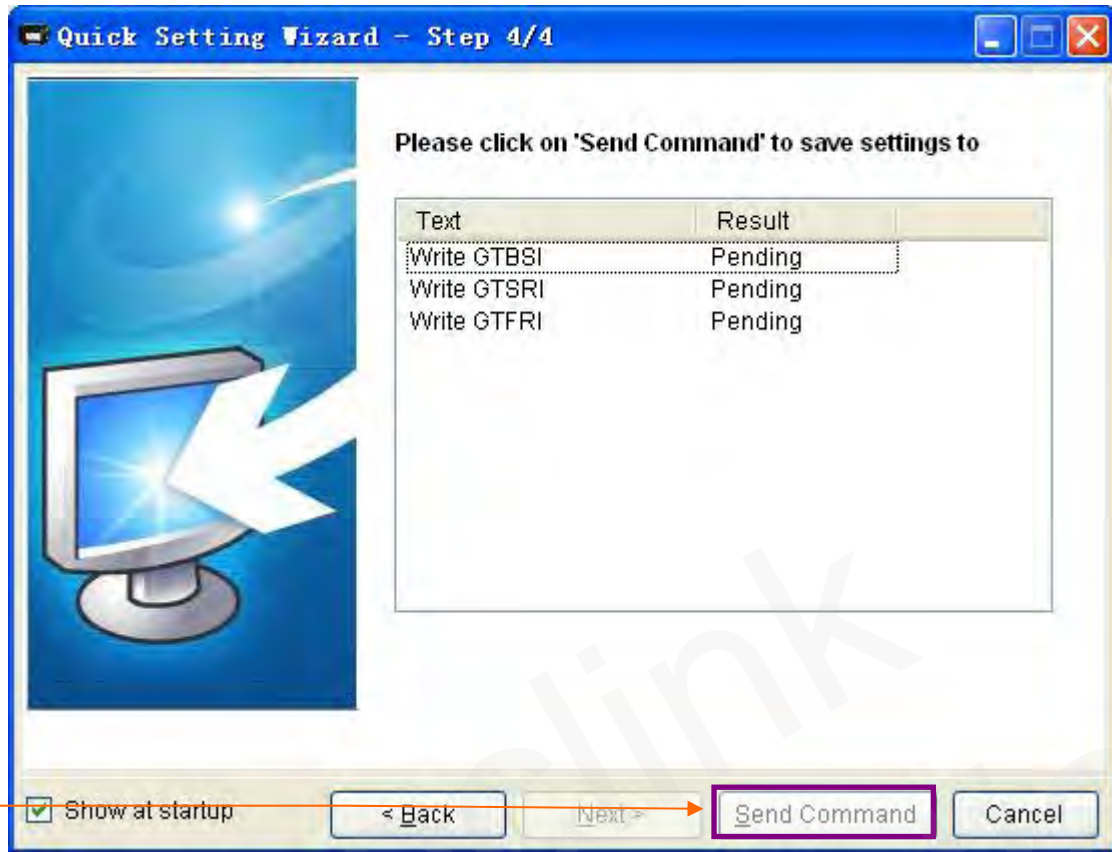
Step_2: Click “Next”.



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 return OK. Click “OK” to exit the quick setting wizard.

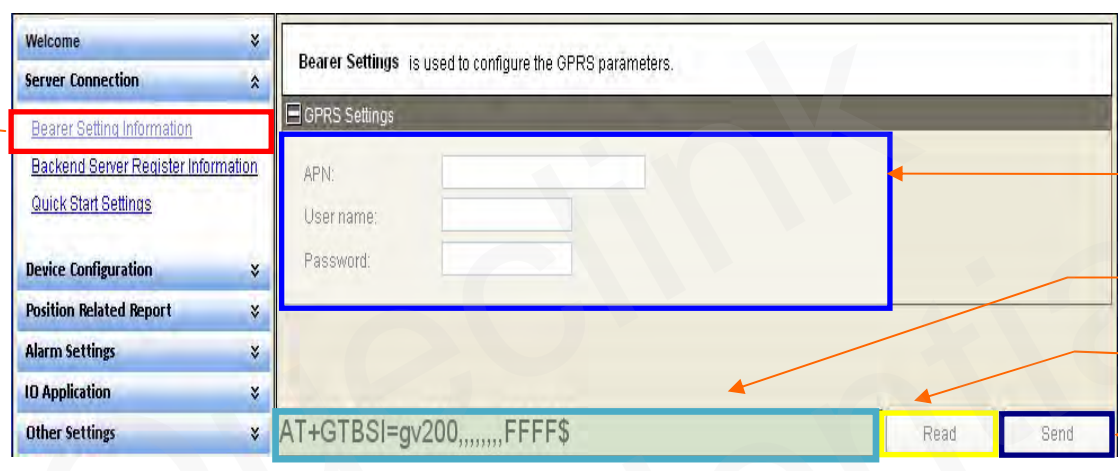


3.2. Device Configuration in Professional Setting Mode

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to “GV200 @Track Air Interface Protocol” for detail.

Following is a general procedure to configure GV200 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.

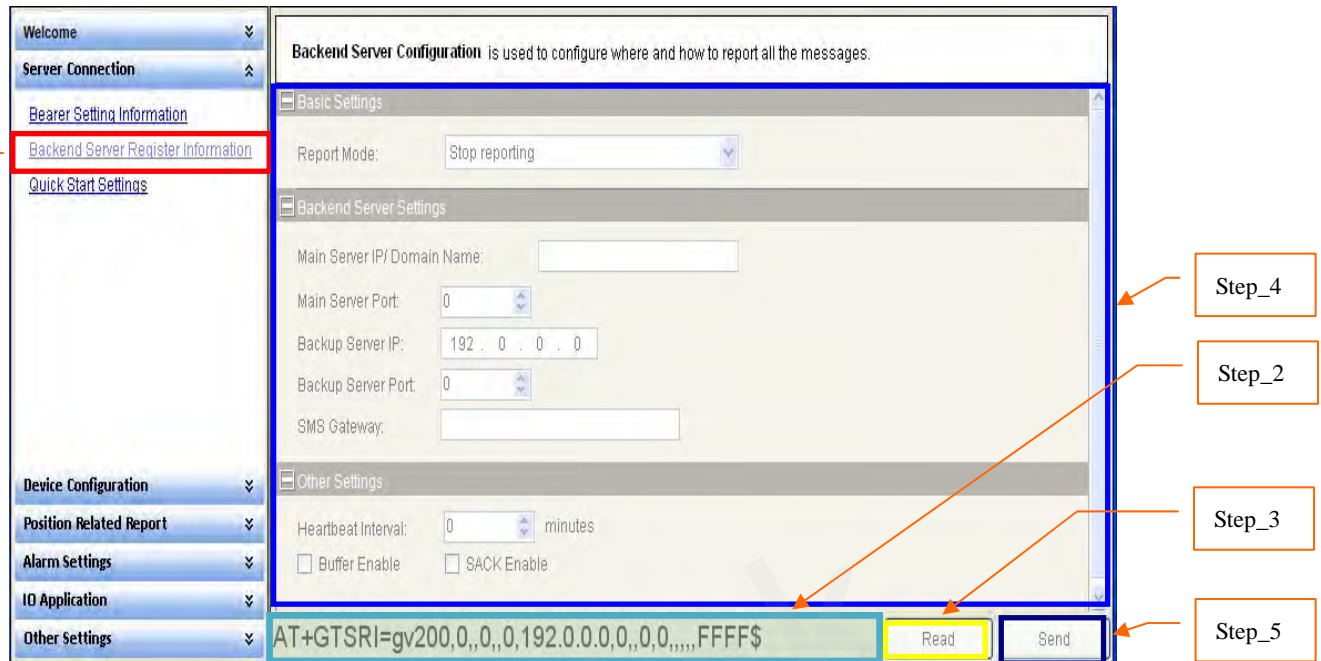
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set APN parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTBSI to GV200.

3.2.2. Set the parameters of backend server register information



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

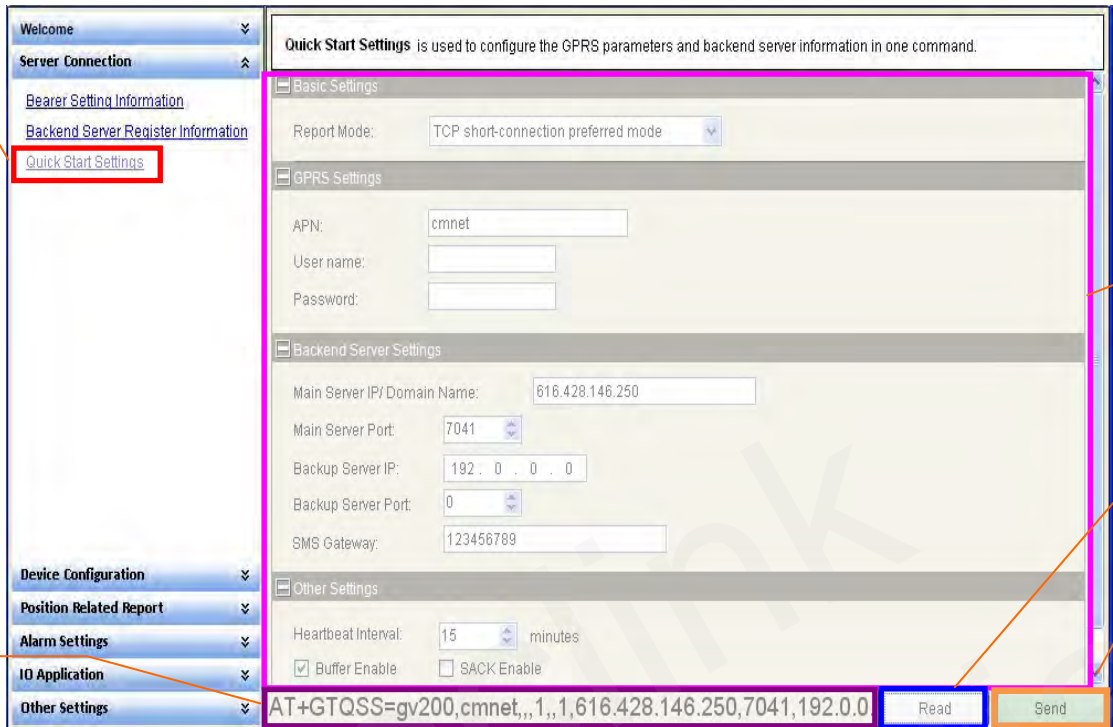
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set backend server information parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTSRI to GV200.

3.2.3. Set the parameters of quick start settings



Step_1: Select “Quick Start Settings”, after that the parameters of GTQSS show in Command Operation Space.

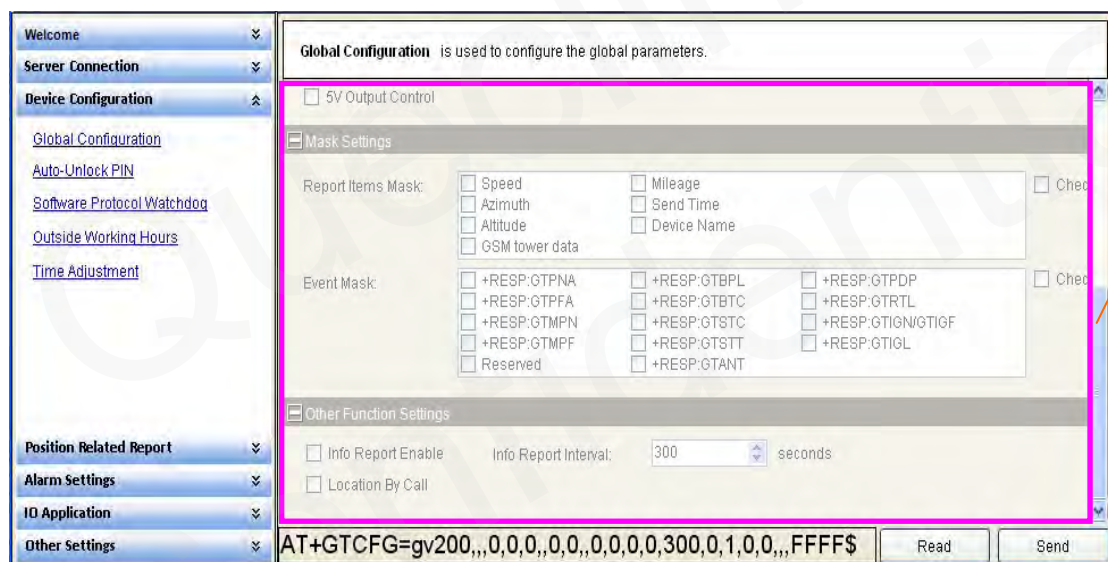
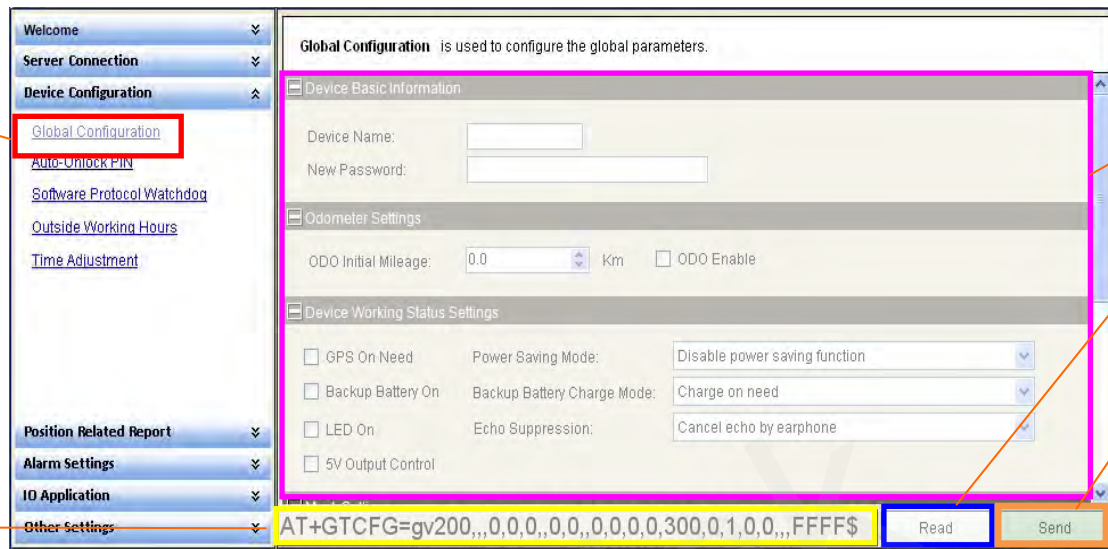
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the GPRS and backend server information parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTQSS to GV200.

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 GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the global parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTCFG to GV200.

3.2.5. Set the parameters of auto-unlock PIN



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 GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the auto-unlock PIN parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTPIN to GV200.

3.2.6. Set the parameters of protocol watchdog

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

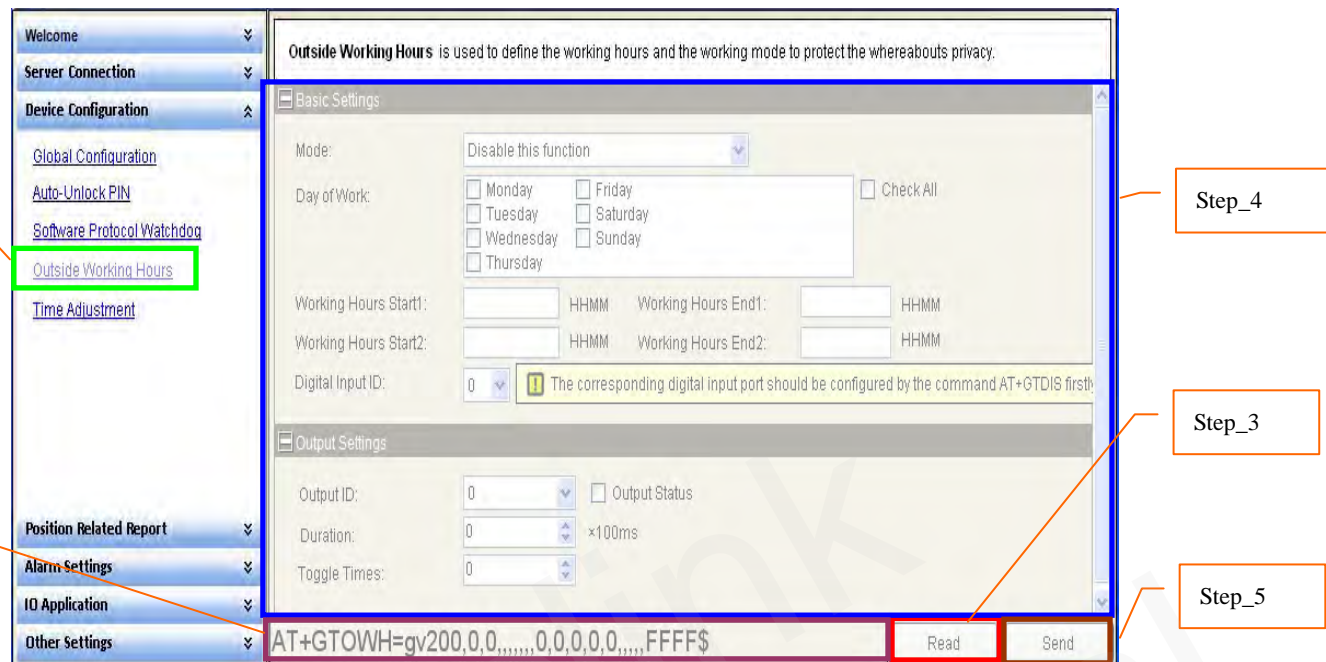
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Software Protocol Watchdog parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTDOG to GV200.

3.2.7. Set the parameters of outside working hours



The screenshot shows the 'Outside Working Hours' configuration page in the GV200 Manage Tool. The left sidebar contains a tree view with 'Outside Working Hours' selected. 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 two 'Working Hours' sections with start and end time inputs. The 'Output Settings' section includes 'Output ID', 'Duration', and 'Toggle Times' inputs. At the bottom, a command input field contains the generated AT command: `AT+GTOWH=gv200,0,0,,,,,0,0,0,0,0,,,,FFFF$`. Below the command field are 'Read' and 'Send' buttons.

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 GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Outside Working Hours parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTOWH to GV200.

3.2.8. Set the parameters of time adjustment



The screenshot shows the 'Time Adjustment' configuration page in the GV200 Manage Tool. The left sidebar contains a menu with the following items: Welcome, Server Connection, Device Configuration (expanded), Global Configuration, Auto-Unlock PIN, Software Protocol Watchdog, Outside Working Hours, Time Adjustment (highlighted), Position Related Report, Alarm Settings, IO Application, and Other Settings. The main content area displays the 'Time Adjustment' configuration page, which includes a title bar, a description, a 'Basic Settings' section with fields for Sign, Daylight Saving, Hour Offset, Minute Offset, and UTC Time, and a command area at the bottom showing the command 'AT+GTTMA=gv200,+0,0,0,,,,,FFFF\$'. The 'Read' and 'Send' buttons are also visible.

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

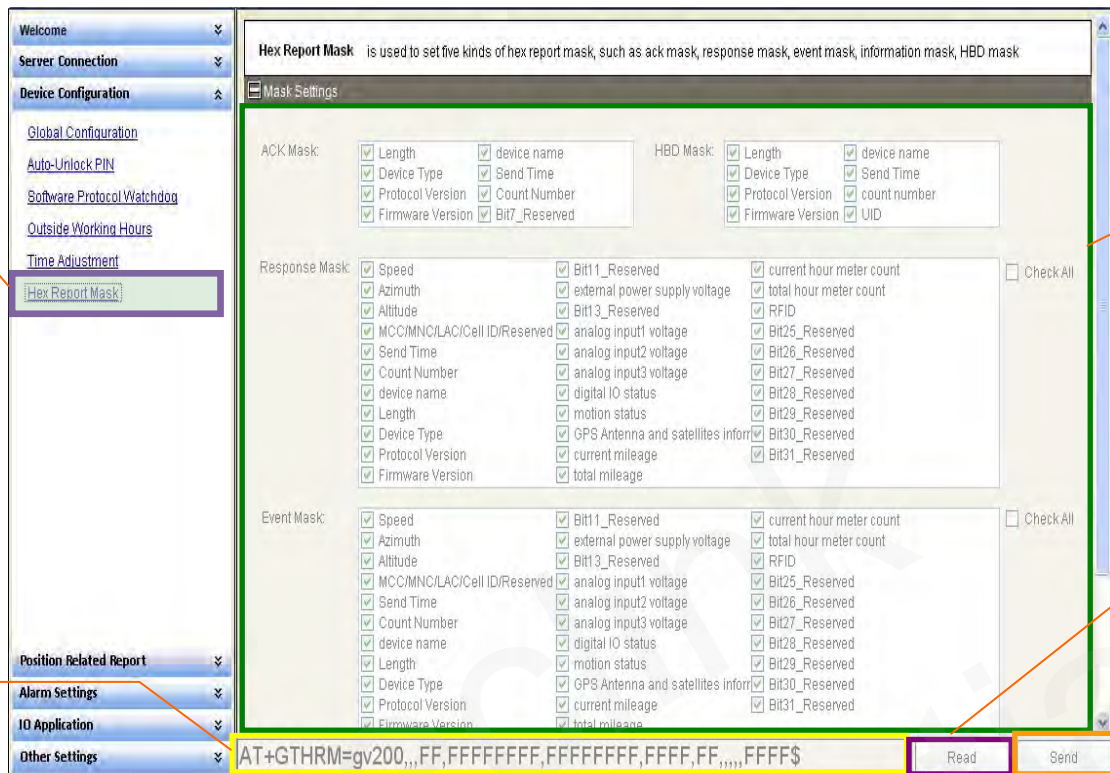
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Time Adjustment parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTTMA to GV200.

3.2.9. Set the hex format report message



Step_1: Select “HEX Report Mask”, after that the parameters of GTHRM show in Command Operation Space.

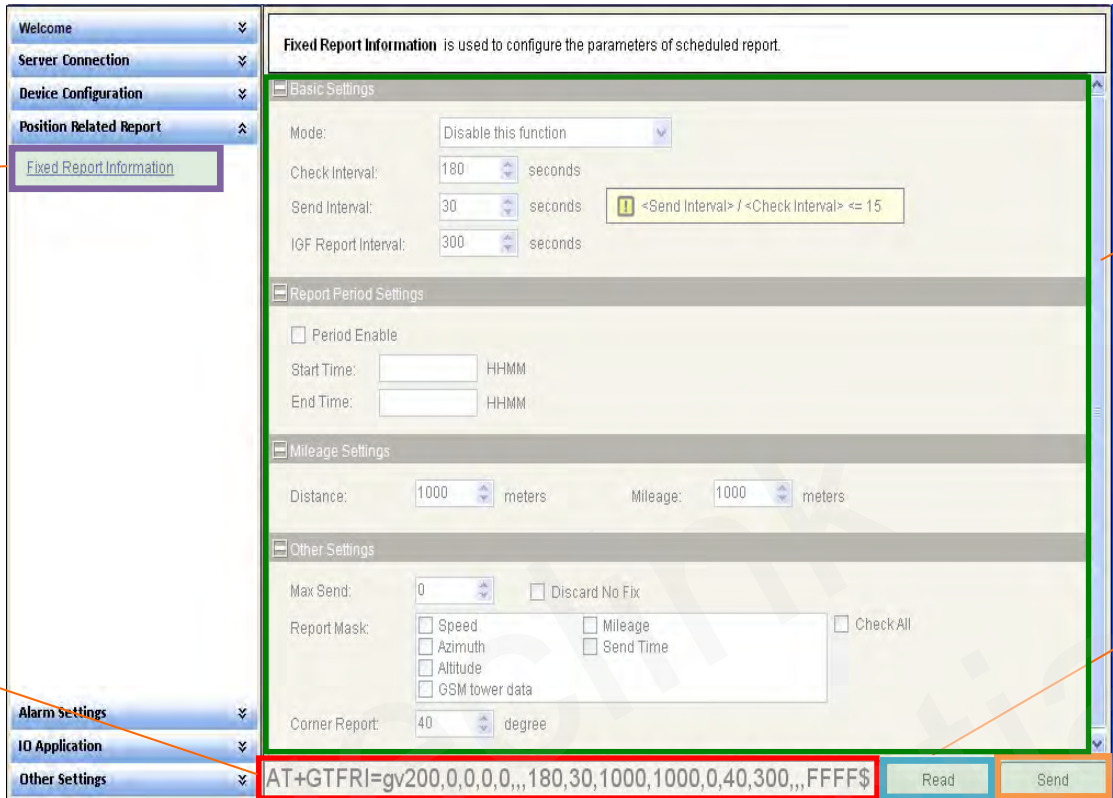
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the hex report mask parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTHRM to GV200.

3.2.10. Set the parameters of fixed report information



The screenshot shows the 'Fixed Report Information' configuration window. The left sidebar has 'Fixed Report Information' selected under 'Position Related Report'. The main area contains the following settings:

- Basic Settings:** Mode: Disable this function; Check Interval: 180 seconds; Send Interval: 30 seconds; IGF Report Interval: 300 seconds.
- Report Period Settings:** Period Enable: ; Start Time: HHMM; End Time: HHMM.
- Mileage Settings:** Distance: 1000 meters; Mileage: 1000 meters.
- Other Settings:** Max Send: 0; Discard No Fix: ; Report Mask: Speed, Azimuth, Altitude, GSM tower data, Mileage, Send Time, Check All; Corner Report: 40 degree.

At the bottom, the command string is displayed: `AT+GTFRI=gv200,0,0,0,0,,,180,30,1000,1000,0,40,300,,,FFFF$`. Below it are 'Read' and 'Send' buttons.

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

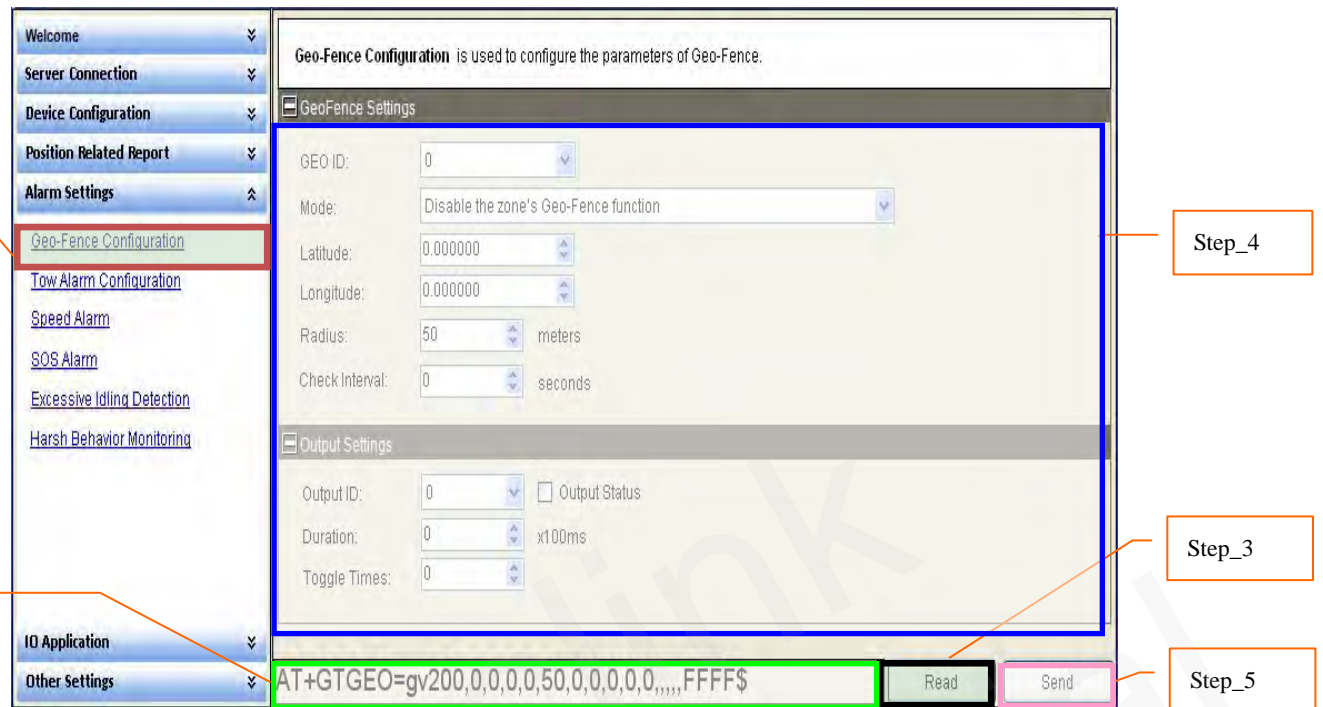
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the scheduled report parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTFRI to GV200.

3.2.11. Set the parameters of Geo-fence information



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

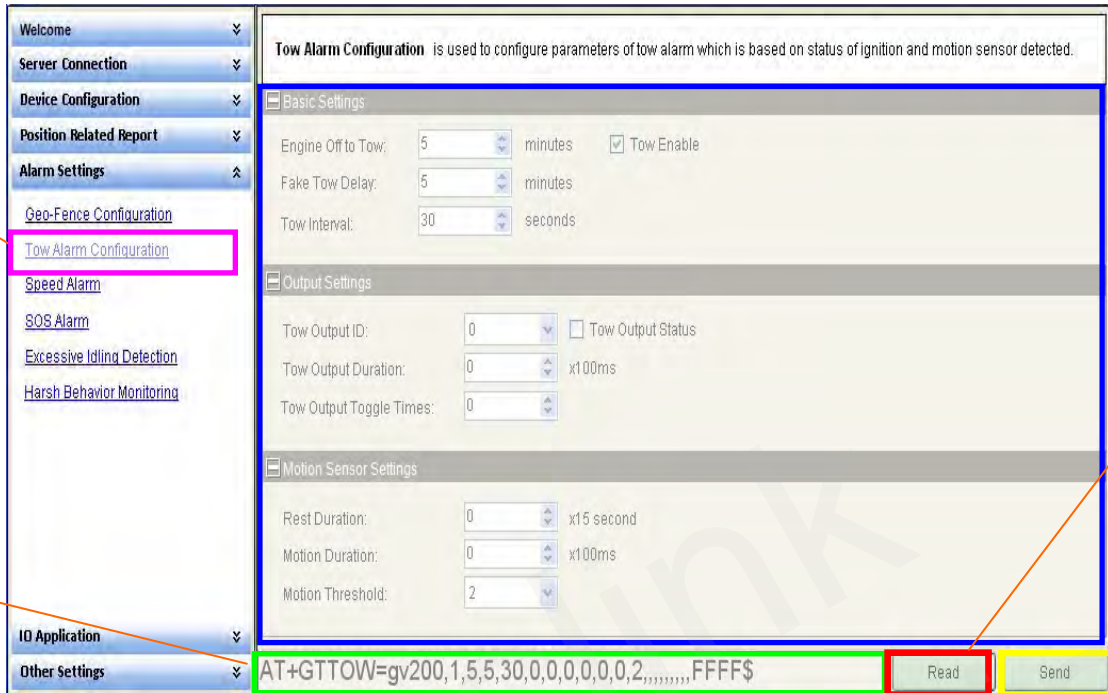
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Geo-Fence parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTGEO to GV200.

3.2.12. Set the parameters of tow alarm configuration



Step_1: Select “*Tow Alarm Configuration*”, after that the parameters of GTTOW show in Command Operation Space.

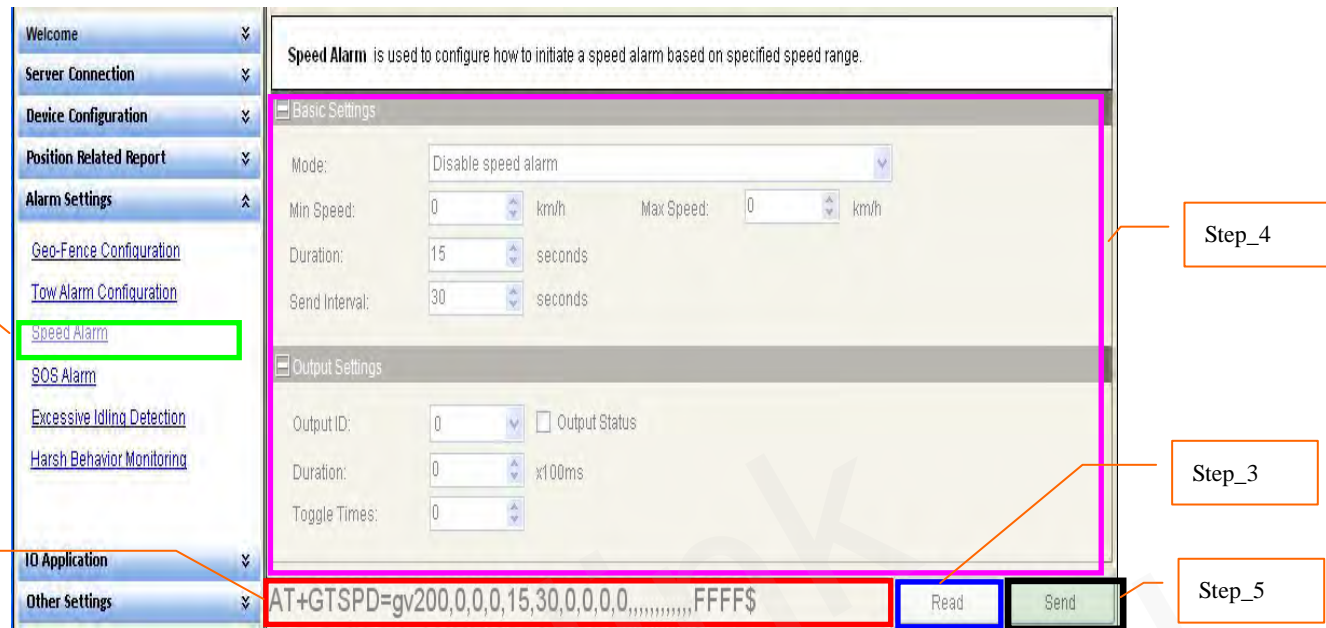
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the tow alarm parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTTOW to GV200.

3.2.13. Set the parameters of speed alarm



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

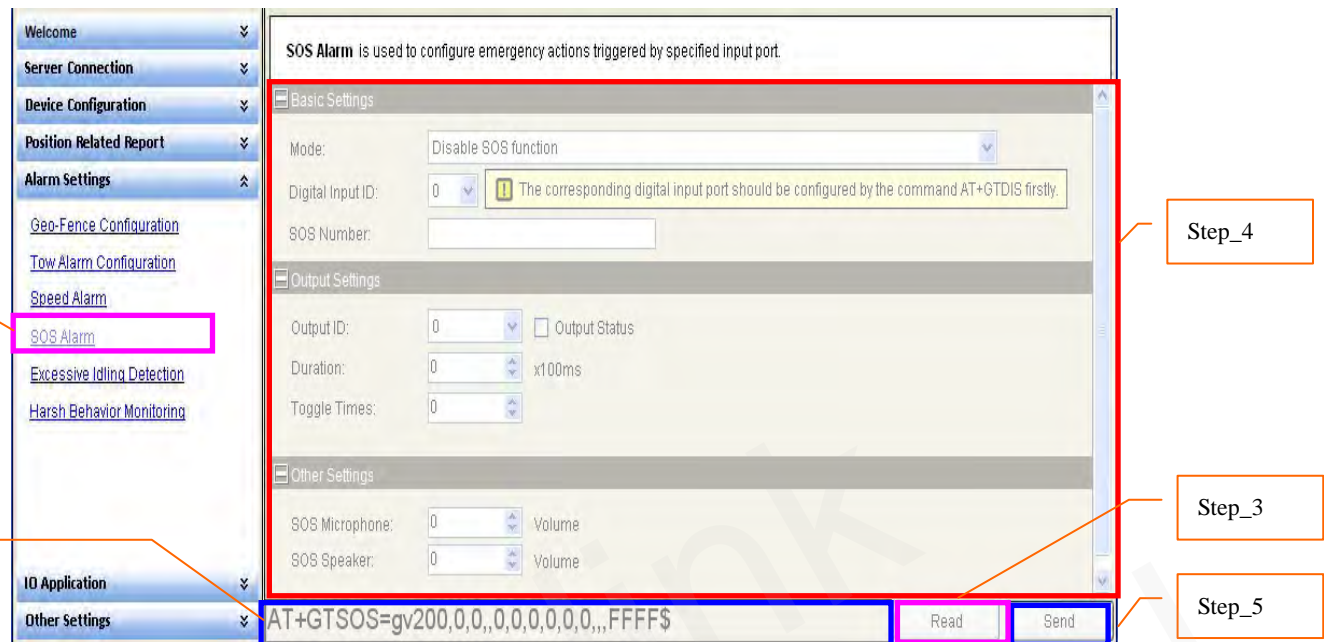
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Speed Alarm parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTSPD to GV200.

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 GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the SOS Alarm parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTSOS to GV200.

3.2.15. Set the parameters of excessive idling detection



The screenshot shows the 'Excessive Idling Detection' configuration screen. The left sidebar has 'Excessive Idling Detection' highlighted. The main area shows 'Basic Settings' with 'Mode' set to 'Disable this function', 'Time to Stillness' at 1 minute, and 'Time to Movement' at 1 minute. 'Output Settings' shows 'Output ID' as 0, 'Duration' as 0 x100ms, and 'Toggle Times' as 0. The command field at the bottom contains 'AT+GTIDL=gv200,0,1,1,,,,,0,0,0,,,,,FFFF\$'. The 'Read' and 'Send' buttons are visible at the bottom right.

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 GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the excessive idling parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTIDL to GV200.

3.2.16. Set the parameters of harsh behavior monitoring

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

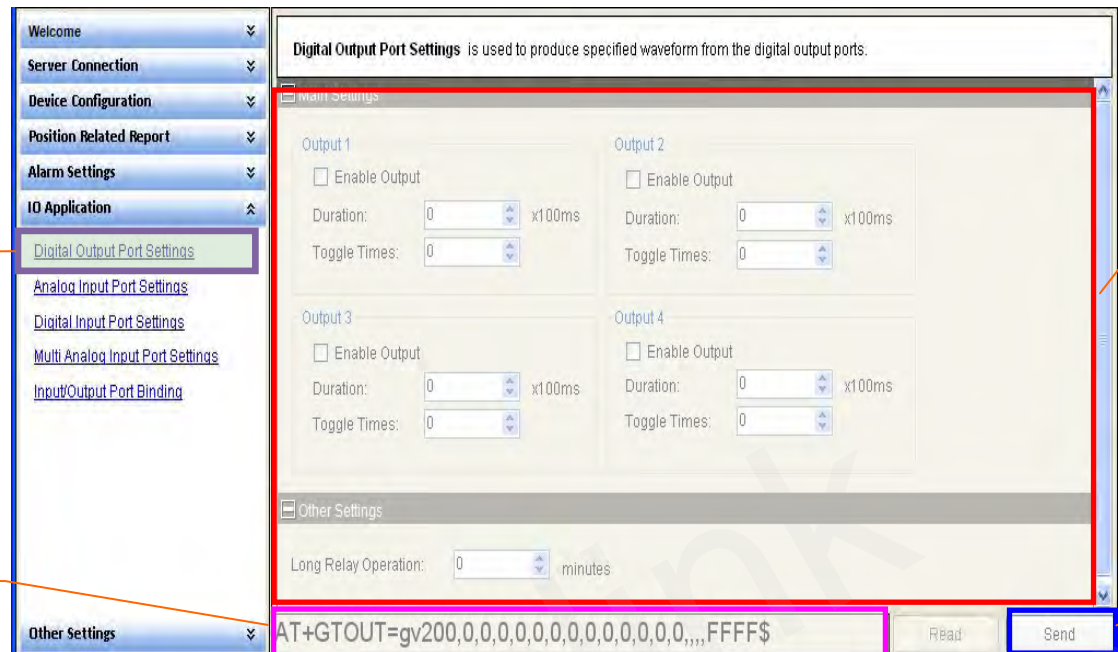
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the harsh behavior monitoring parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTHBM to GV200.

3.2.17. Set the parameters of digital output port



The screenshot shows the 'Digital Output Port Settings' window. The left sidebar has 'Digital Output Port Settings' selected. The main area is divided into 'Main Settings' and 'Other Settings'. 'Main Settings' contains four output configurations (Output 1-4), each with an 'Enable Output' checkbox, 'Duration' (0 x100ms), and 'Toggle Times' (0). 'Other Settings' has a 'Long Relay Operation' field (0 minutes). At the bottom, a command field displays 'AT+GTOUT=gv200,0,0,0,0,0,0,0,0,0,0,0,0,,,FFFF\$' and 'Send' and 'Read' buttons.

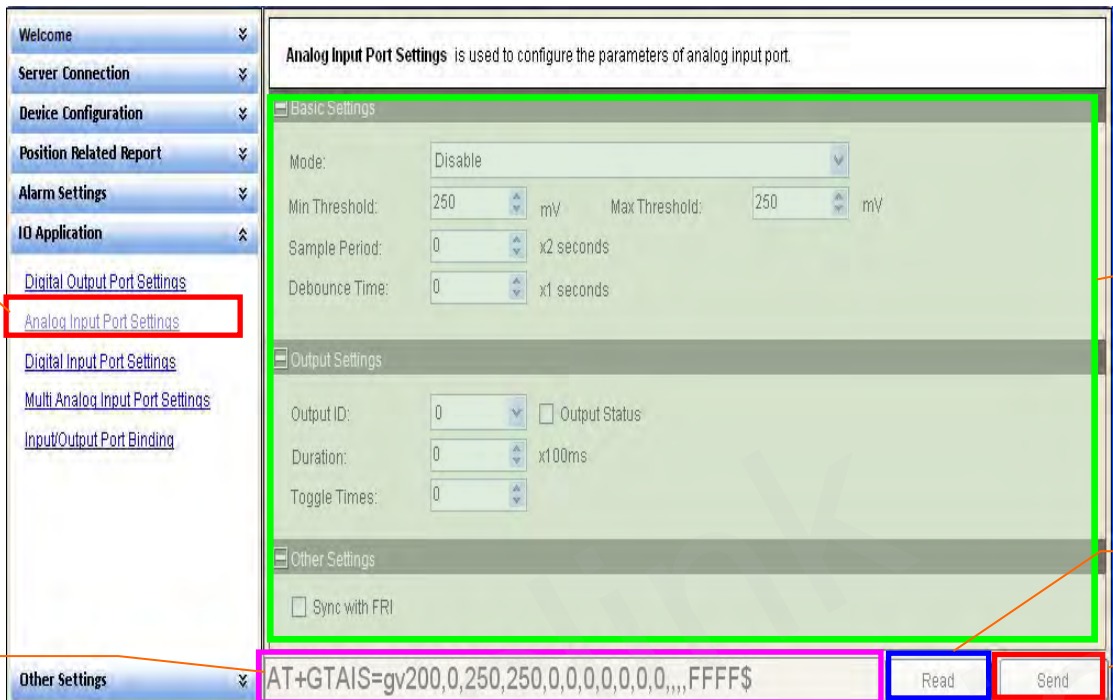
Step_1: Select “*Digital Output Port Settings*”, after that the parameters of GTOUT show in Command Operation Space.

Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: Set the Digital Output parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTOUT to GV200.

3.2.18. Set the parameters of analog input port setting



The screenshot shows the 'Analog Input Port Settings' configuration page. The left sidebar contains a tree view with 'Analog Input Port Settings' selected. The main area is divided into three sections: 'Basic Settings' (Mode: Disable, Min Threshold: 250 mV, Max Threshold: 250 mV, Sample Period: 0 x2 seconds, Debounce Time: 0 x1 seconds), 'Output Settings' (Output ID: 0, Duration: 0 x100ms, Toggle Times: 0), and 'Other Settings' (Sync with FRI). At the bottom, a command field contains 'AT+GTAIS=gy200,0,250,250,0,0,0,0,0,0,,,FFFF\$', with 'Read' and 'Send' buttons to its right.

Step_1: Select “Analog Input Setting”, after that the parameters of GTOUT show in Command Operation Space.

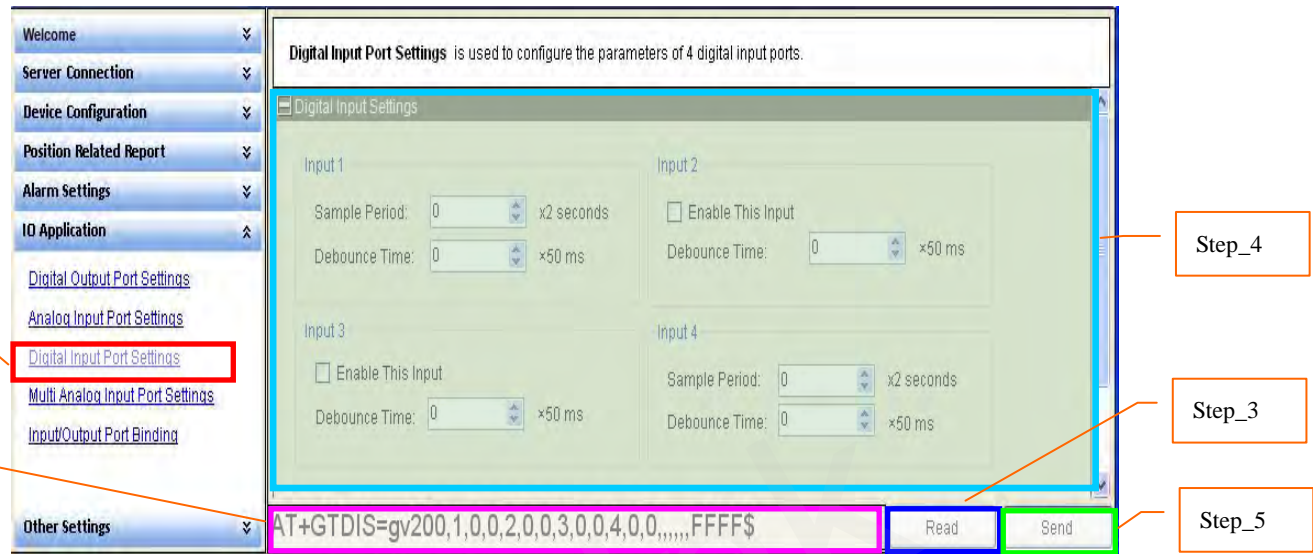
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Analog Input parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTAIS to GV200.

3.2.19. Set the parameters of digital input port setting



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

Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Digital Input parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTDIS to GV200.

3.2.20. Set the parameters of multi analog input port

Step_1 (Multi Analog Input Port Settings)

Step_2 (AT+GTMAI=gV200,1,0,250,250,0,,0,0,0,0,2,0,250,250,0,,0,0,0,0,0)

Step_3 (Analog Input 1 Settings)

Step_4 (Main Settings Area)

Step_5 (Read/Send Buttons)

Step_6 (Analog Input 2 Settings)

Step_5 (Read/Send Buttons)

Step_7 (Analog Input 3 Settings)

Step_5 (Read/Send Buttons)

Step_1: Select “Multi Analog Input Port Setting”, after that the parameters of GTMAI show in Command Operation Space.

Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

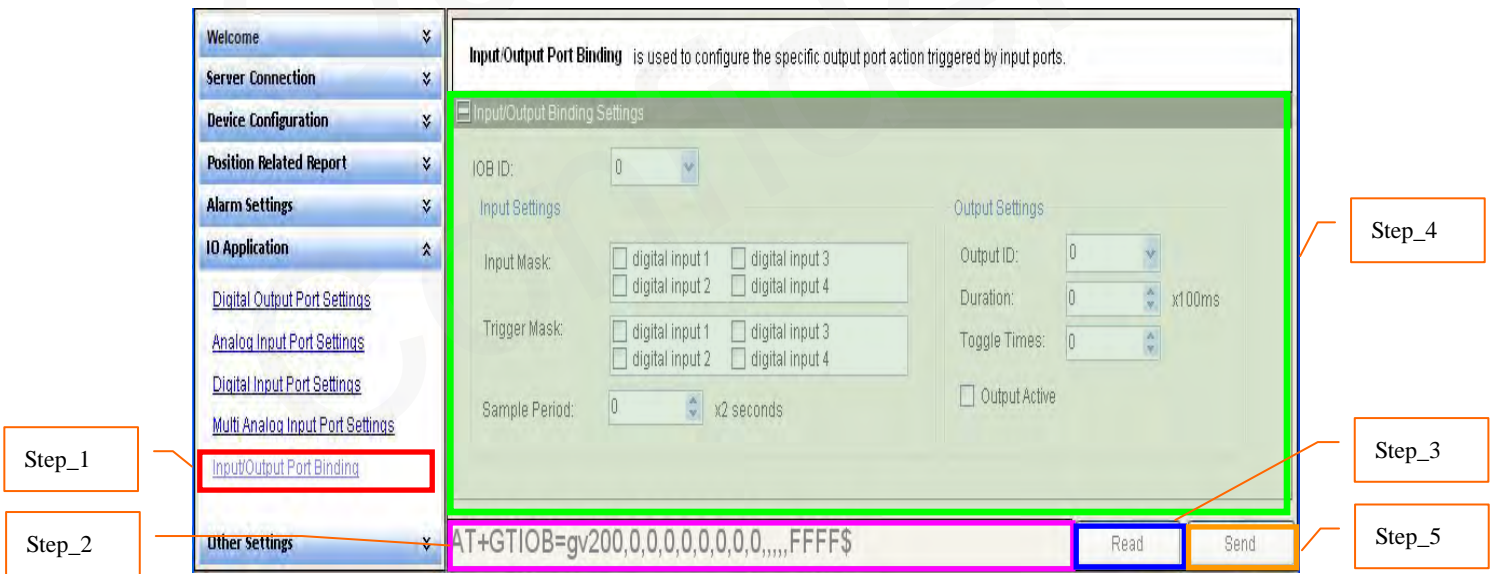
Step_4: Set the Multi Analog Input Port1 parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTMAI to GV200.

Step_6: Set the Multi Analog Input Port2 parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_7: Set the Multi Analog Input Port3 parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

3.2.21. Set the parameters of input/output port binding



Step_1: Select “Input/Output Port Setting”, after that the parameters of GTIOB show in Command Operation Space.

Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200

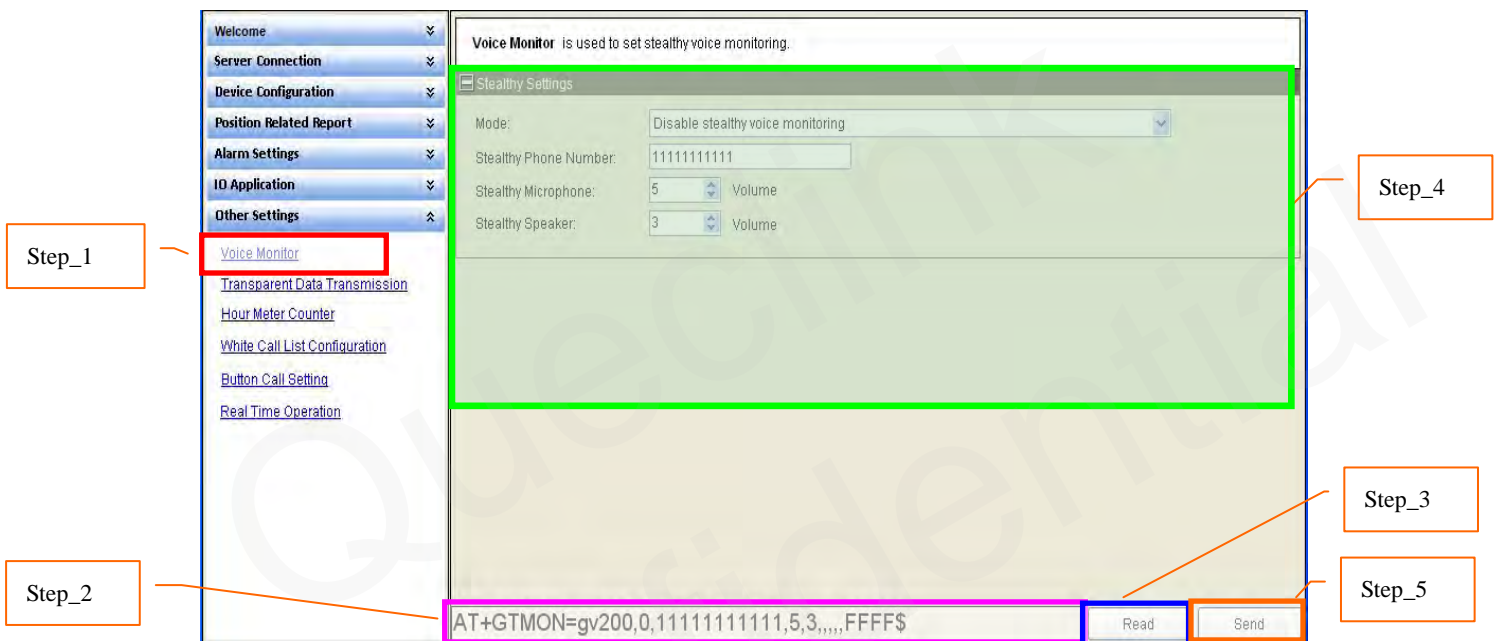
through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the Input/Output port parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTIOB to GV200.

3.2.22. Set the parameters of voice monitoring



Step_1: Select “Voice Monitor”, after that the parameters of GTMON show in Command Operation Space.

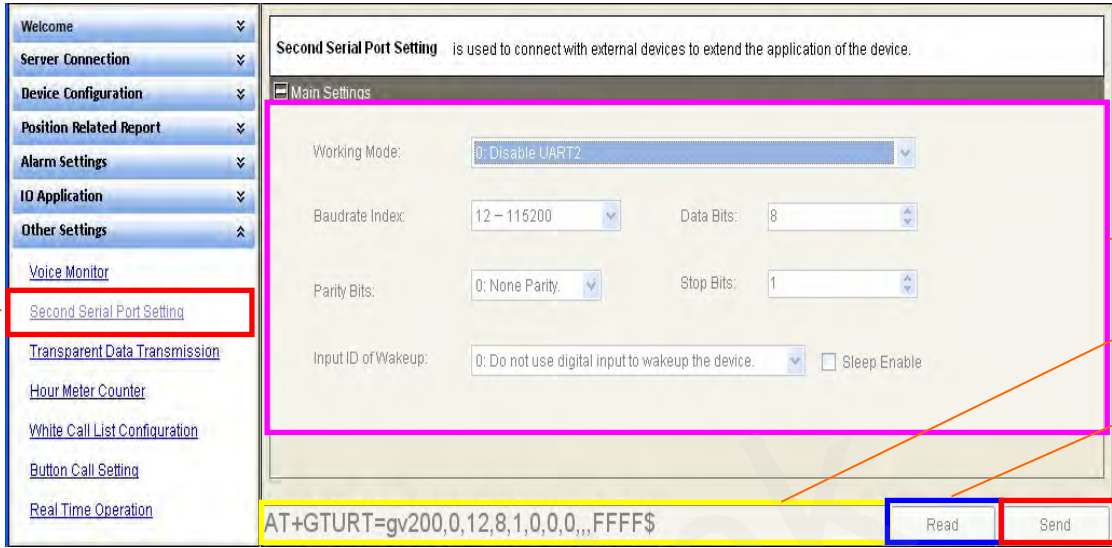
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the voice monitor parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTMON to GV200.

3.2.23. Set the parameters of second serial port



The screenshot shows the 'Second Serial Port Setting' configuration page. The left sidebar contains a menu with 'Second Serial Port Setting' highlighted. The main area is titled 'Second Serial Port Setting' and contains a 'Main Settings' section with the following parameters:

- Working Mode: 0: Disable UART2
- Baudrate Index: 12 - 115200
- Data Bits: 8
- Parity Bits: 0: None Parity
- Stop Bits: 1
- Input ID of Wakeup: 0: Do not use digital input to wakeup the device. Sleep Enable

At the bottom, the command input field shows `AT+GTURT=gv200,0,12,8,1,0,0,0,,,FFFF$`. The 'Read' and 'Send' buttons are visible at the bottom right.

Step_1: Select “*Second Serial Port Setting*”, after that the parameters of GTURT show in Command Operation Space.

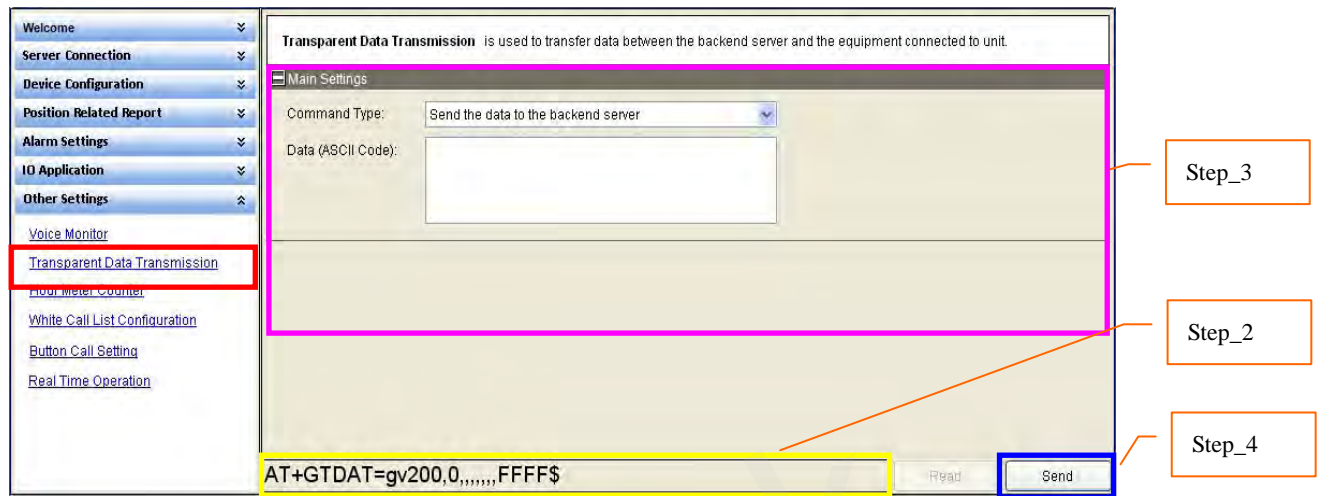
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the second serial port parameters. Please refer to “*GV200 @Track Air Interface Protocol*” for the meaning of each parameter.

Step_5: Click the “*Send*” button; download the parameters of GTURT to GV200.

3.2.24. Set the parameters of transparent data transmission



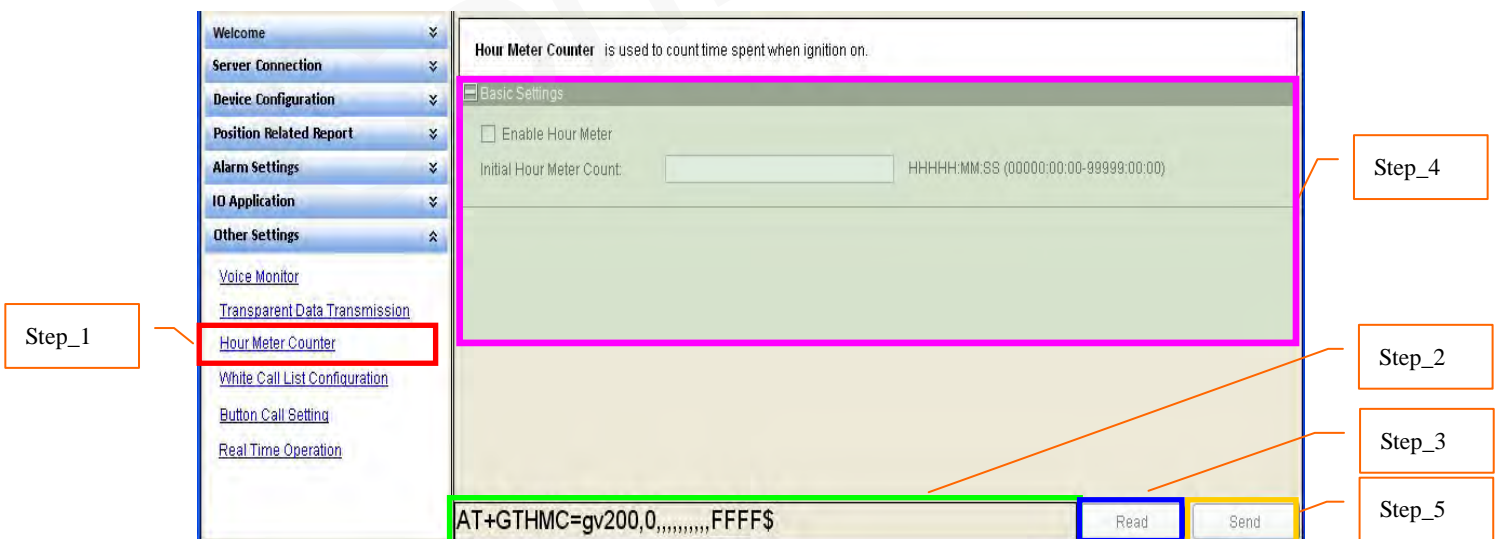
Step_1: Select “transparent data transmission”, after that the parameters of GTDAT show in Command Operation Space.

Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: Set the transparent data transmission parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTDAT to GV200.

3.2.25. Set the parameters of hour meter counter



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

Operation Space.

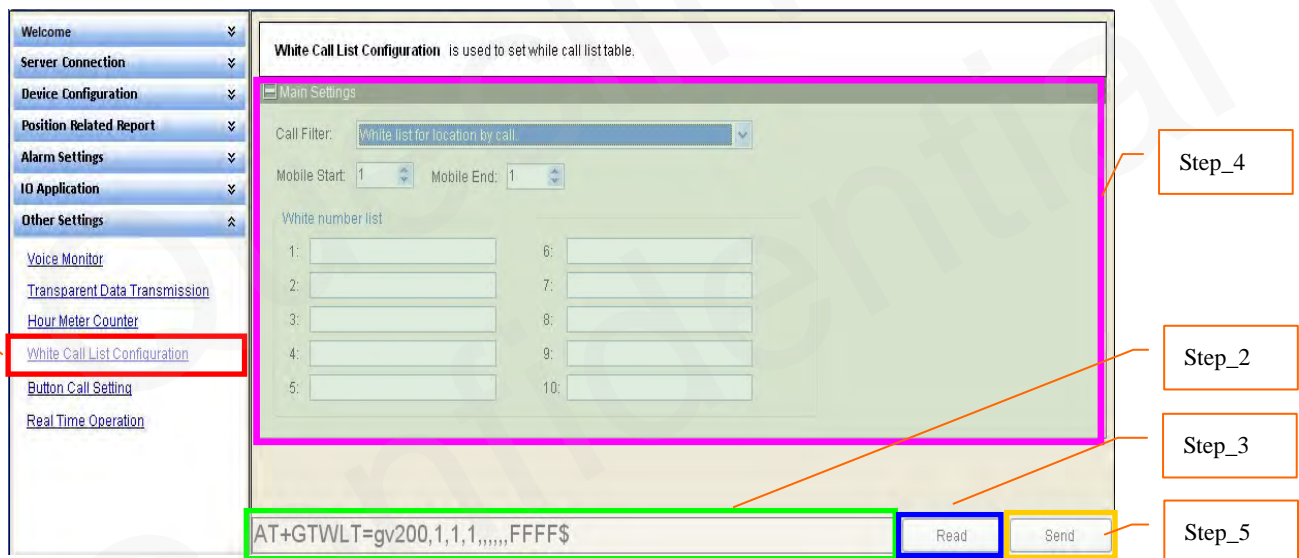
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the hour meter counter parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTHMC to GV200.

3.2.26. Set the parameters of white list



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

Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the white call list parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTWLT to GV200.

3.2.27. Set the parameters of button call

Step_1: Select “Button Call Setting”, after that the parameters of GTBCS show in Command Operation Space.

Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV200 and edit based on them.

Step_4: Set the button call parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

Step_5: Click the “Send” button; download the parameters of GTBCS to GV200.

3.2.28. 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 area shows a 'Sub Command' dropdown set to 'Get the GPS related information via message'. Below this is a text input field containing the command 'AT+GTRTO=gv200,0,,,,,FFFF\$'. At the bottom right, there are 'Read' and 'Send' buttons.

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

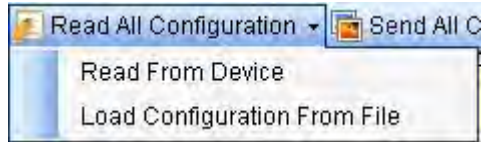
Step_2: The command message which shall be sent to GV200 will be generated based on input and displayed here. Please note this command message can also be sent to GV200 through SMS or GPRS.

Step_3: Set the real time operation parameters. Please refer to “GV200 @Track Air Interface Protocol” for the meaning of each parameter.

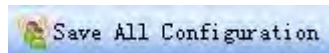
Step_4: Click the “Send” button; download the parameters of GTRTO to GV200.

3.3. Read/Save All Configuration

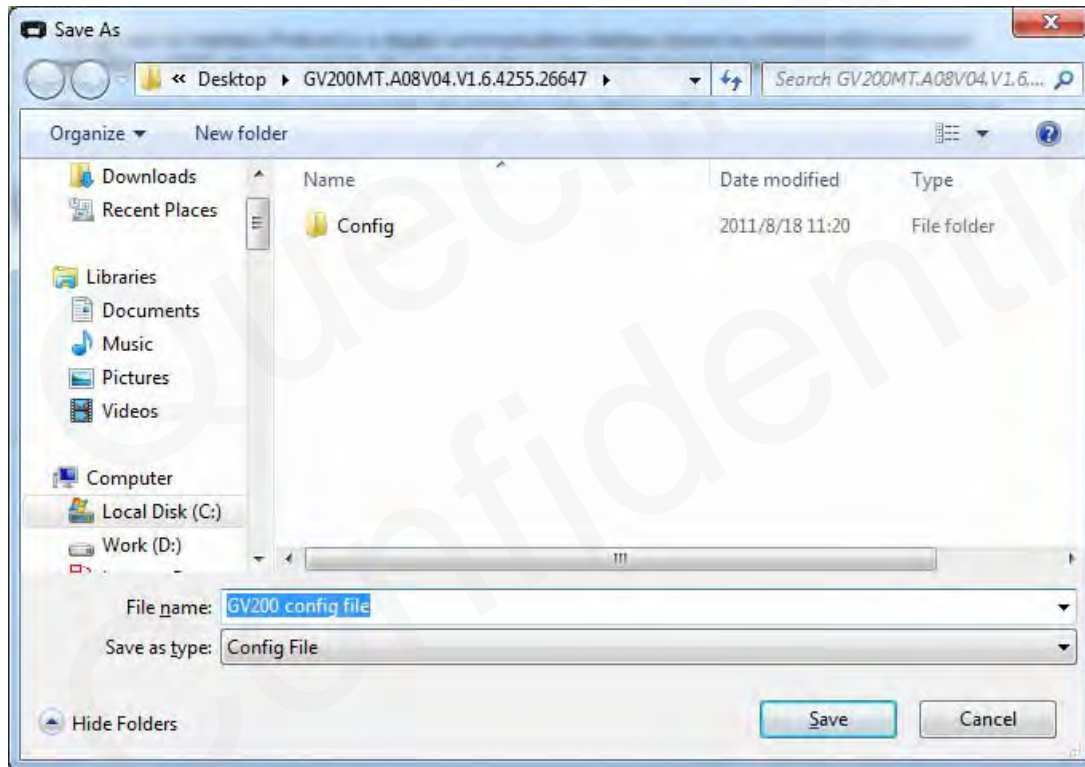
Step_1: It is recommended to read all configurations from device before save the configuration. Select “*Read All Configuration*”→”*Read From Device*”.



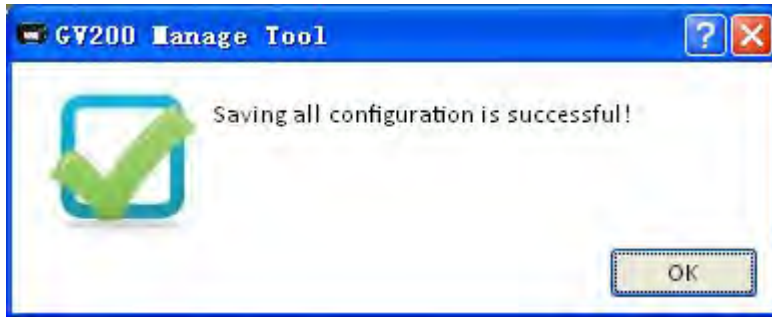
Step_2: After read successfully, click “*Save All Configuration*” in toolbar.



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

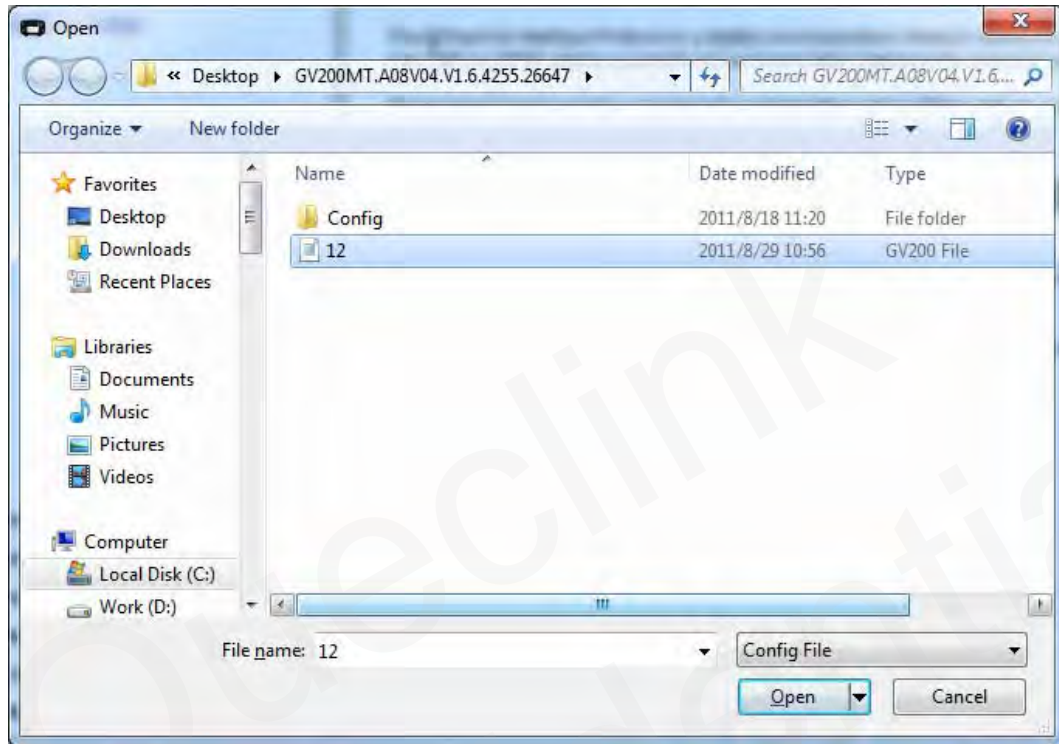


Step_4: Save successfully.



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.



Step_3: Manage Tool will send all commands to device.