GSM/GPRS/GPS Tracker **GV300**

Manage Tool User Guide

TRACGV300MT001

Revision: 1.18

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Contents

1. Revision History

Revision	Date	Author	Description of change
1.00	2011-08-22	Wogle zhou	Initial
1.01	2011-11-16	Moon Xie	1) Add AGPS function to A**T+GTCFG** 2) Add GSM function to **AT+GTCFG**
1.02	2012-06-18	Happy Peng	1) Add chapter3.2.10 to introduce how to configure the jamming behavior function. 2) Add chapter3.2.11 to introduce how to configure the white list function. 3) Add chapter3.2.13 to introduce how to configure the start stop report function. 4) Add chapter3.2.20 to introduce how to configure the start stop report function. 5) Add chapter3.2.31 to introduce how to configure the white list function. 6) Update the support version to GV300R00A05V05M128_NMX
1.03	2012-8-08	Happy Peng	1) Add <*SMS ACK Enable*> function to **AT+GTSRI** 2) Command **AT+GTQSS**, **AT+GTDAT**, **AT+GTRTO** will not be sent when “Send All Configuration”. 3) Add read “Mcu Version” and “Hw Version ” from device to About 4) Added the mode 3 in **AT+GTDAT** to transmit data without CRLF 5) Cancel Mode3 in **AT+GTAIS** 6) Cancel parameters <*Fuel Sensor Delay*>、<*Fuel Lost Alarm*> in **AT+GTAIS** 7) Extend the “bit5” to “**+RESP:GTTOW**” in <GSM Report> in AT+GTCFG 8) Modified the AT+GTJBS function 9) Change “Bit11_Reserved” in <*Response Mask*>、<*Event Mask*> to “Battery Level” in **AT+GTHRM** 10) Change “Reserved” in <*Working Mode*> to “Use UART to transfer data with Garmin” in **AT+GTURT** 11）Update the support version to GV300R00A06V12M128_NMX
1.04	2012-9-18	Leaf Ye	1） Add parameters <*GSM Interval*> and <*PDP*

			Interval> to the command **AT+GTDOG** 2） Update the support version to GV300R00A06V15M128_NMX
1.05	2012-10-25	Leaf Ye	1) Update the support version to GV300R00A06V17M128_NMX
1.06	2012-12-06	Ada Jiang Leaf Ye	1) Add chapter3.2.12to introduce how to configure the Preserve special devices state function 2) Add chapter3.2.33 to introduce how to configure the AC100 devices function 3) Add chapter3.2.34 to introduce how to configure Extend digit fuel sensor function 4) Add chapter3.2.35 to introduce how to configure the ID Authentication function 5) Add <*Backup GPRS Settings*> function to AT+GTBIS 6) Add parameter <*ERI Mask*> in **AT+GTFRI** 7) Add parameter <*DOS Report*> in **AT+GTOUT** 8) Add parameter <*No ignition*> in **AT+GTDIS** 9) Add Working Mode 4 ,Mode 5 and parameter <*Digital Fuel Sensor Type*> in **AT+GTURT** 10) Add <*No Alarm Mode*> in **AT+GTAIS** 11) Add <*Single AT Command*> in **AT+GTRTO** 12) Add Command **D** in **AT+GTRTO** 13) Update the support version to GV300R00A07V20M128_NMX
1.07	2013-01-06	Leaf Ye	1) Add parameters <*Trigger Mode*> *and* <*Trigger Report*> in **AT+GTGEO** 2) Add parameters <*Validity Time*> *and* <*Validity Mode*> in **AT+GTDIS** 3) Add <*CR606*> digit fuel sensor support in **AT+GTURT** 4) Add parameter <*Ex Filter Factor*> in **AT+GTEFS** 5) Add chapter3.2.36 to introduce how to configure the buzzer alarm definition function. 6) Add chapter3.2.37 to introduce how to configure the over speed alarm function. 7) Update the support version to GV300R00A08V05M128_NMX
1.08	2013-02-26	Penny Pei	1) Update the support version to GV300R00A08V06M128_NMX
1.09	2013-03-20	Penny Pei	1) Add parameter < *State of wave shape 1*> in

			AT+GTPDS 2) Add Command **E** in **AT+GTRTO** 3) Change "Sub AT Command" to " Sub AT Command | Configuration Mask" in **AT+GTRTO** 4) Change " Bit 7- Reserved" of Information Mask to "Expand INF Mask" in **AT +GTHRM** 5) Add Mode 5 "Fixed Time or Mileage Report" in **AT+GTFRI** 6) Add parameter < *long stop*> in **AT+GTSSR** 7) Add parameter <*Need Judge Motion Sensor*> and <*GPS Fix Fail Timeout Timer*> in **AT+GTJBS** 8) Add mode 2 to <*Sleep Enable*> in **AT +GTURT** 9) Update the support version to GV320R00A09V11M128_NMX
1.10	2013-04-25	Penny Pei	1) Update the support version to GV300R00A10V01M128_NMX
1.11	2013-05-09	Penny Pei	1) Extern the GEO fence to 20 2) Update the support version to GV300R00A10V08M128_NMX
1.12	2013-06-27	Penny Pei	1) Add mode 2 to <<*Mode*> in **AT + GTIDA;** 2) Modify < *Timeout after Ignition off*> in **AT+GTIDA;** 3) Update the support version to GV300R00A10V09M128_NMX
1.13	2013-07-17	Penny Pei	1) Update the support version to GV300R00A10V10M128_NMX
1.14	2013-8-31	Happy Peng	1) Add parameter < *long Operation2*> and < *long Operation3*> in **AT+GTSSR** 2) Add Mode 6,7,8 in **AT+GTURT** 3) Add parameter < Output ID> and < Output Status> in **AT+GTMON** 4) Add parameter MUT,UDT and TMP to <Sub AT Command> and <Configuration Mask> in **AT+GTRTO** 5) Add parameter < Enable Siren > in **AT+GTJBS** 6) Modified the description of <No Ignition> in **AT+GTDIS** 7) Add chapter3.2.38 to introduce how to configure the Temperature Alarm function

			8) Add chapter3.2.39 to introduce how to configure the Main Serial Port Setting function 9) Add chapter3.2.40 to introduce how to configure the Uart Data Transfer function 10) Add Mode 2 in **AT+GTJDC** 11) Add parameter <Jamming Cell Number Threshold>, <Enter Jamming Timer Threshold>, <Quit Jamming Timer Threshold> and change < C1 Threshold >to <Reserved> in **AT+GTJDC** 12) Add SACK Mode 2 in **AT+GTSRI** 13) Update the support version to GV300R00A11V16M128_NMX
1.15	2013-10-11	Happy Peng	1) Chang <Bit13_Reserved> to <Analog Input Mode> in AT +GTHRM 2) Add mode 3 and mode 5 in AT +GTAIS 3) Add chapter3.2.41 to introduce how to configure the Fuel Sensor Calibration Table 4) Update the support version to GV300R00A11V19M128_NMX
1.16	2013-11-28	Happy Peng	1） Remove the mode 6,7,8 in **AT+GTURT** 2） Update the support version to GV300R00A11V26M128_NMX
1.17	2013-12-30	Happy Peng	1） Add parameter <Ex Full Value> in **AT +GTEFS** 2） Add type 4:UFS100 to < Digit Fuel Sensor Type> in **AT +GTURT** 3) Extern the ID Number List to 250 in **AT+GTIDA** 4) Update the support version to GV300R00A11V31M128_NMX
1.18	2014-3-18	Happy Peng	1） Change the range of <Ex Full Value> to 0-65535 in **AT+GTEFS** 2） Add parameter <Single AT Command> for reset special configuration in **AT+GTRTO**/4 3） Add mode 6,7,8,9 in **AT+GTURT** 4） Extend the range of mode to 0-3,the range of FRI mode to 0-5 in **AT+GTFFC** 5） Add chapter3.2.42 to introduce how to configure the Polygon Geo-Fence 6） Add chapter3.2.43 to introduce how to configure the Roaming Detection 7） Add chapter3.2.44 to introduce how to configure the Camera Setting Command

			8） Add chapter3.2.45 to introduce how to configure the Take Picture Command 9） Add PEO，RMD，CMS to Single AT Command and Configuration Mask in **AT+GTRTO** 10) Change Bit15 to GEO Status Mask in **AT+GTUDT** 11) Add parameter <ID Validity Time>and change the range of <Timeout after Ignition off>to 0|15–600 Seconds in **AT+GTIDA** 12) Add Bit6，Bit7，Bit8，Bit9 to Mask in **AT+GTPDS** 13) Add <+DAT Mask> in **AT+GTHRM** 14) Update the support version to GV300R00A12V16M128_NMX

2. GV300 Manage Tool Interface

GV300 manage tool is PC software which can be used to configure GV300 through UART. It is easy for the backend server developers to configure GV300 with manage tool, which has friendly user interface. The correct command messages sent to GV300 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 GV300 before selling. But it is strongly recommended to establish a backend server and implement the way to control GV300 by SMS or GPRS. Please refer to "*GV300 @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 GV300 to 12VDC power supply and GV300 will power on.
2. Connect GV300 to PC with USB data cable (DATA CABLE_M).
3. Run "**GV300 Manage Tool Vx.xx.exe**".

2.1. System Requirements

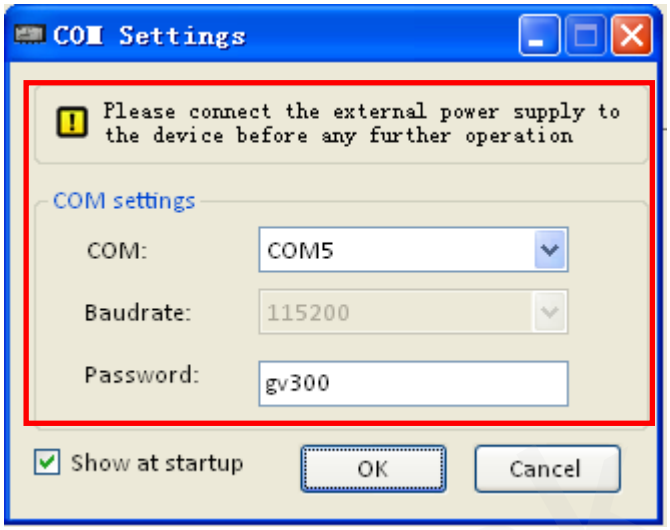
In order for this manage tool to run on your computer, you must use it in below operating system:

- 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



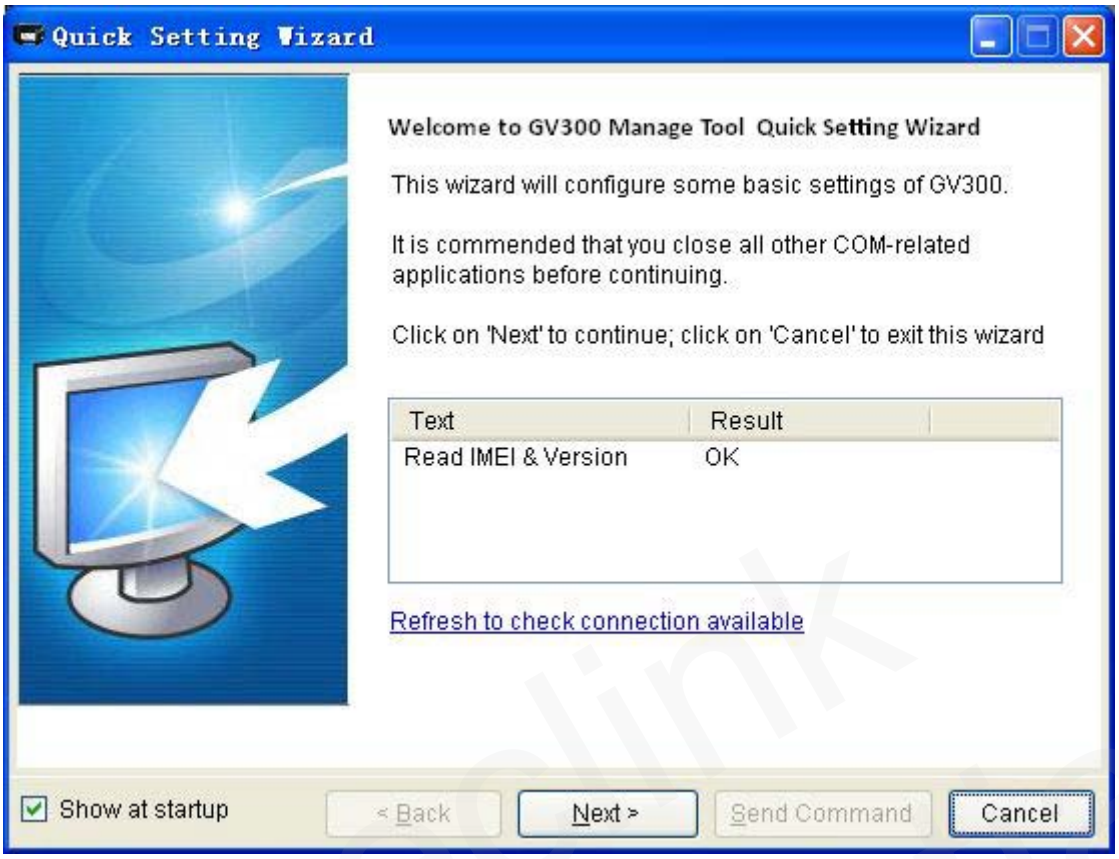
Select the COM port, baud rate (115200bps in default), input the password ("gv300" in default), and click "OK" button, then setting window will display.

2.3. Quick Setting Wizard

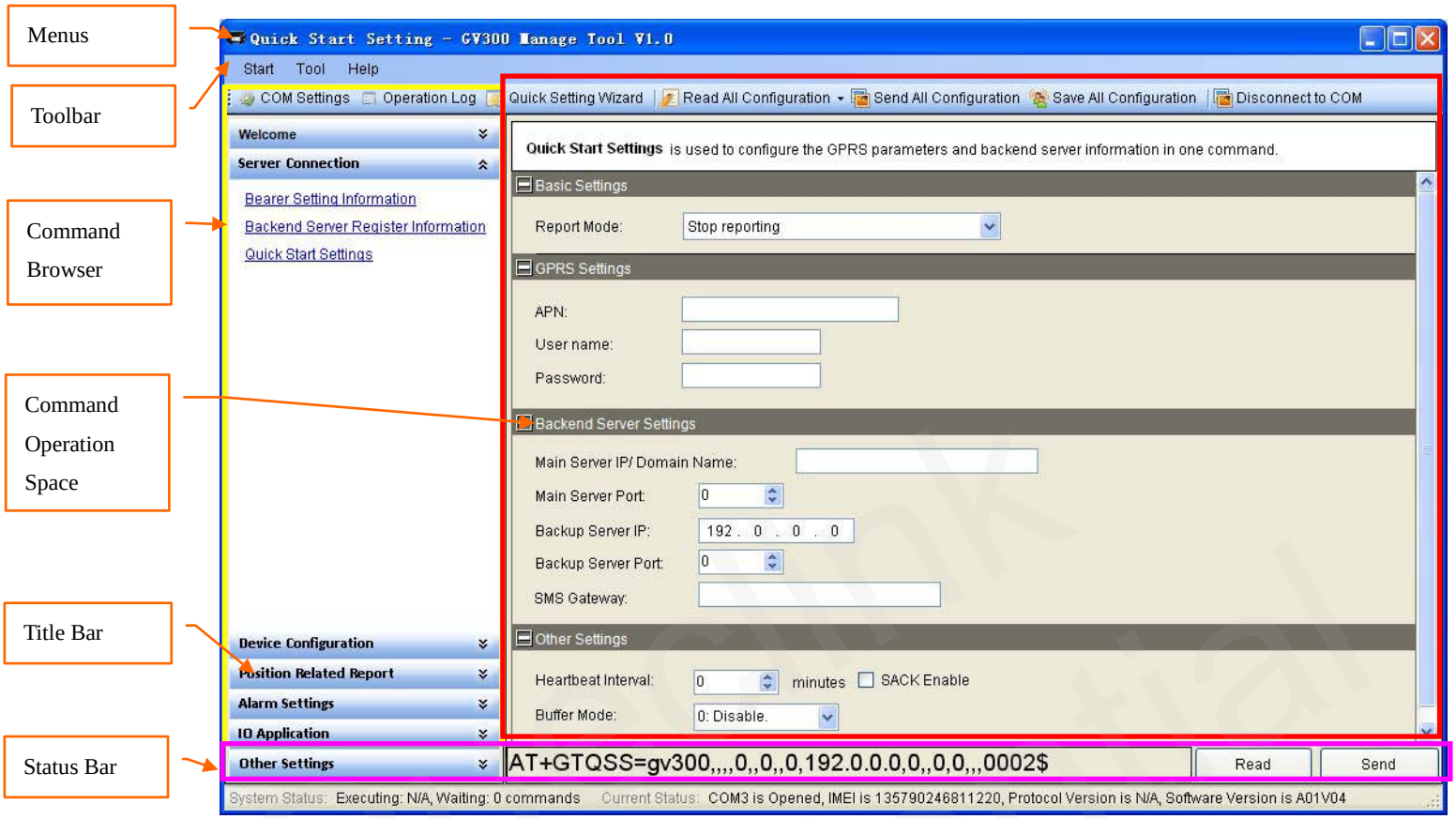
The quick setting wizard gives a basic setting for device. If you want use more functions of GV300, please change to enter professional setting mode.

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*”.

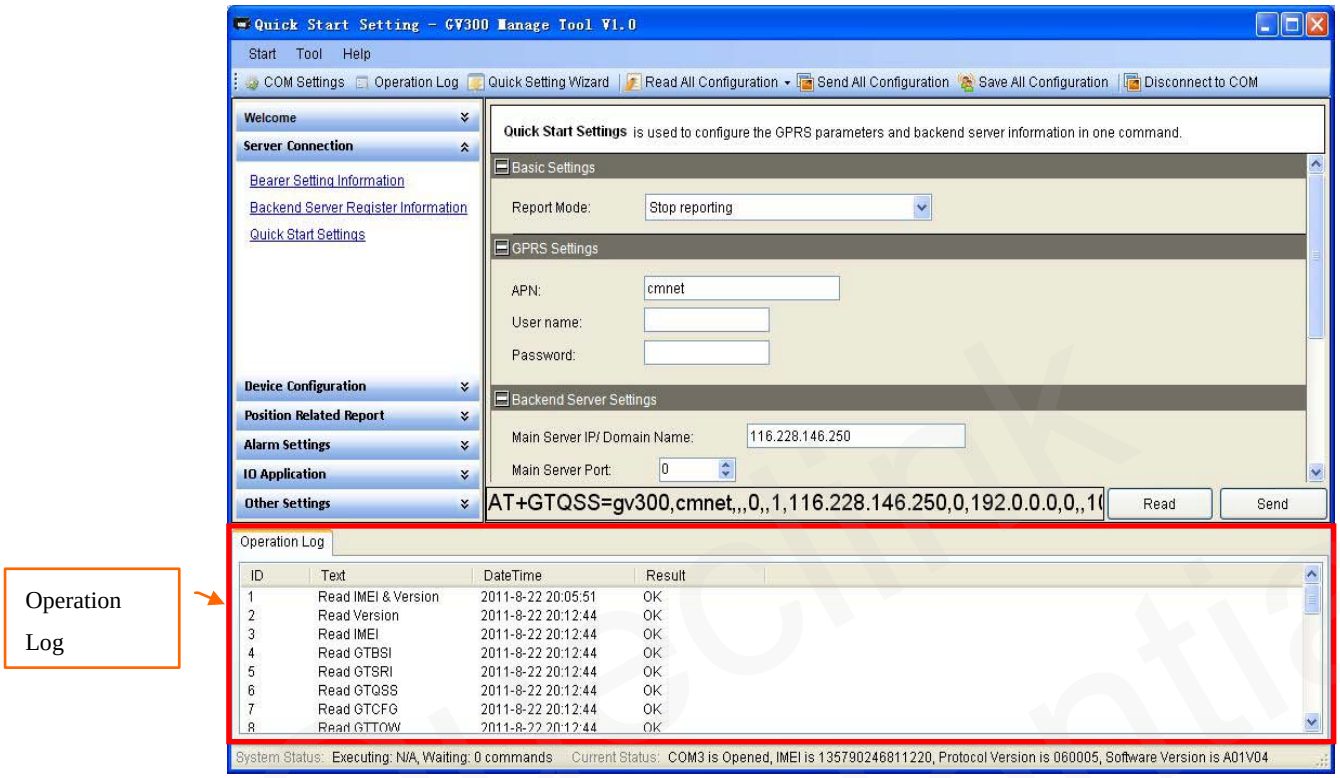
[COM Setting]: It is used to set the COM information and password Setting details please refer to chapter 2.2

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.

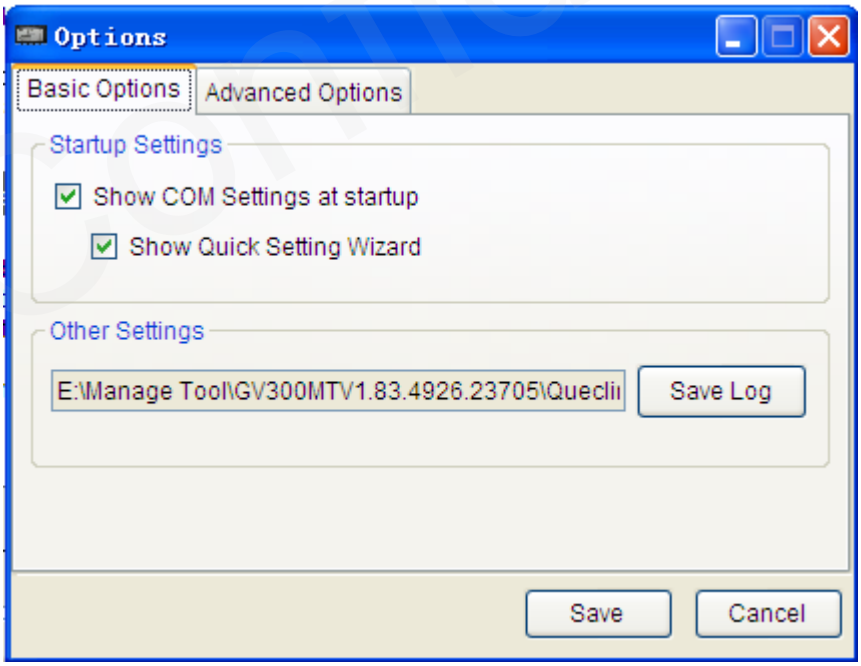
[Operation Log]: It is used to display/hidden the operation log.



Operation Log

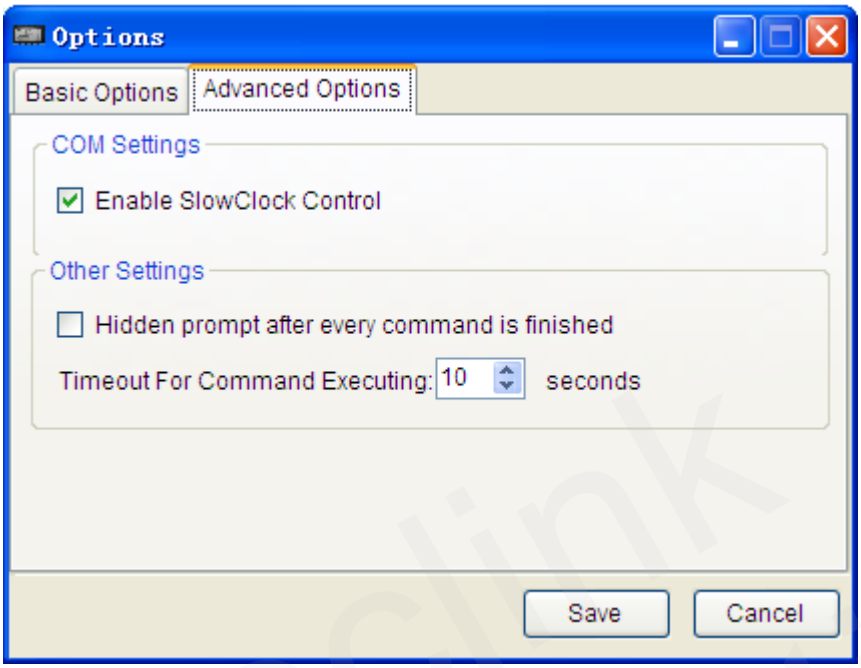
[Options]: It is used to set the basic setting of manage tool.

"*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 connected 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 for details.

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

"*Read From Device*": It is used to read all configuration(except command GTDAT) 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 GTQSS, GTDAT, 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

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.

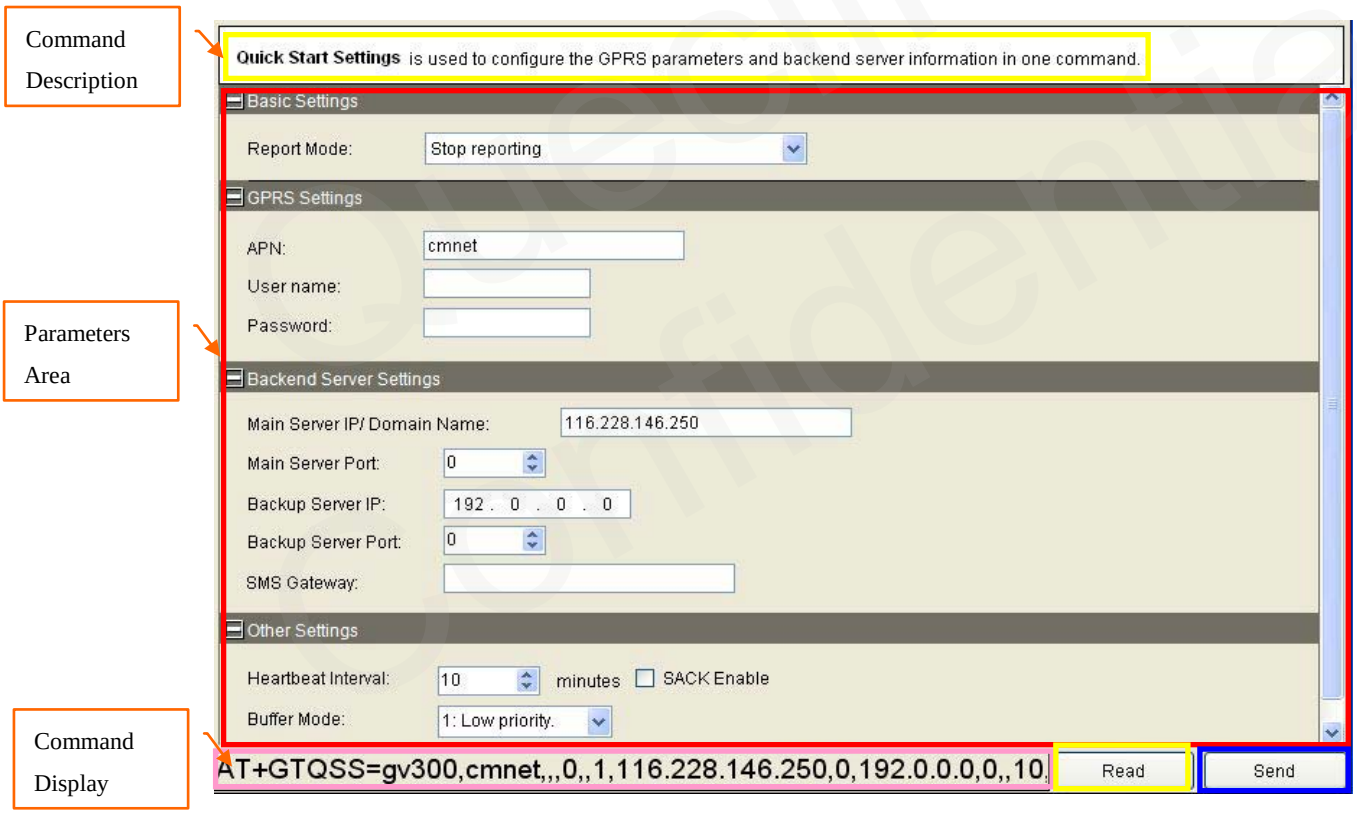
2.4.5.1 Command Brower

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
	Jamming Behavior Setting	GTJBS
	Hex Report mask	GTHRM
	Preserve special device logical state	GTPDS
Position Related Report	Fixed Position Information	GTFRI
	Frequency Change of Fixed Report Information	GTFFC
Alarm Setting	Geo-Fence Configuration	GTGEO
	Tow Alarm Configuration	GTTOW
	Speed Alarm	GTSPD
	SOS Alarm	GTSOS
	Excessive Idling Detection	GTIDL
	Harsh Behavior Monitoring	GTHBM
	Start Stop Report	GTSSR
	Buzzer Alarm Definition	GTBZA
	Over Speed Alarm	GTSPA
	Temperature Alarm	GTTMP
	Roaming Detection Configuration	GTRMD
	Polygon Geo-Fence	GTPEO
IO Application	Digital Output Port Settings	GTOUT
	External Power Supply Monitoring	GTEPS
	Digital Input Port Setting	GTDIS
	Analog Input Port Setting	GTAIS
	Input/Output Port Binding	GTIOB

Other Settings	Voice Monitor	GTMON
	Transparent Data Transmission	GTDAT
	Hour Meter Counter	GTHMC
	Real Time Operation	GTRTO
	Serial Port Setting	GTURT
	White List	GTWLT
	AC100/AC200 Devices Setting	GTACD
	Extend digit fuel sensor	GTEFS
	ID Authentication	GTIDA
	Main Serial Port Setting	GTMUT
	Uart Data Transfer	GTUDT
	Fuel Sensor Calibration Table	GTFSC
	Camera Setting Command	GTCMS
	Take Picture Command	GTTAP

2.4.5.2 Command Operation Space



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

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

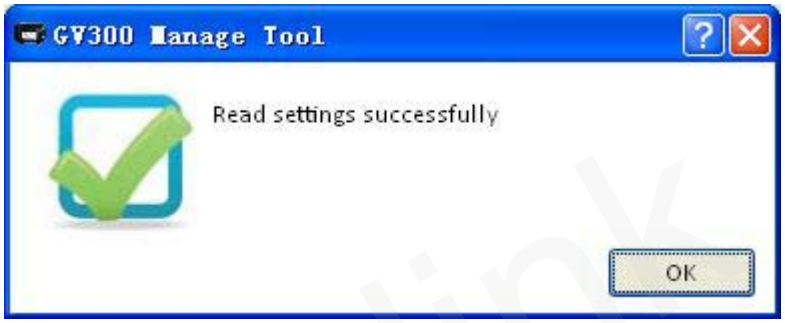
[Command Display]: Command with parameters in parameters area display in this area.

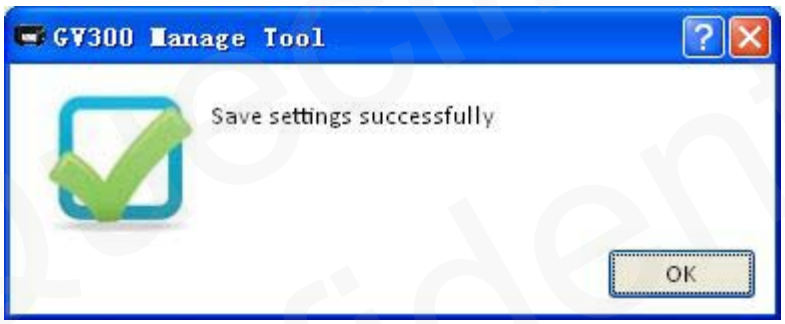
[Read]: Click this button to read this command from device.

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

2.5. Operation Result Interface

2.5.1. Operation Successfully Interface

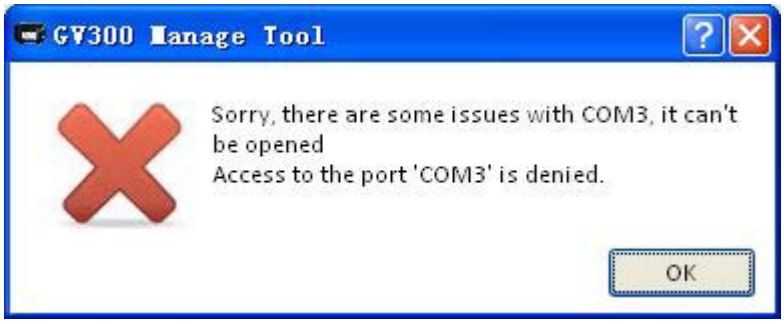




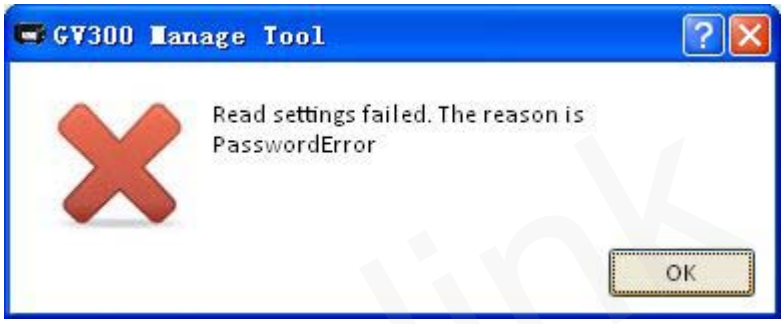
2.5.2. Operation Failed Interface

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

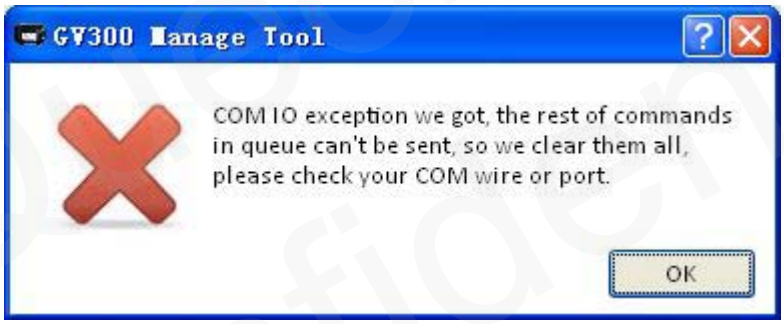
There should be COM port is occupied. Please close all other COM-related applications.



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

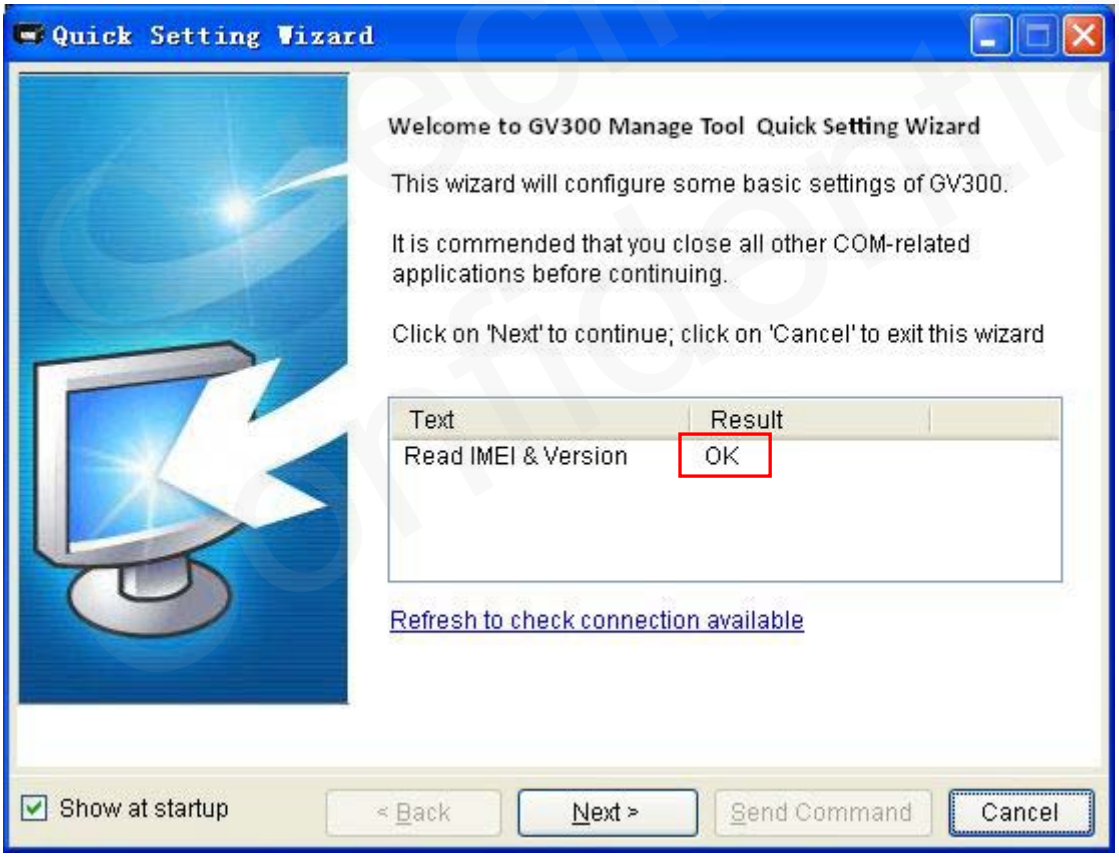
3.1. Device Configuration with Quick Setting Wizard

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "*GV300 @Track Air Interface Protocol*" for detail.

The quick setting wizard gives a basic setting for device. If you want use more functions of GV300, 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.



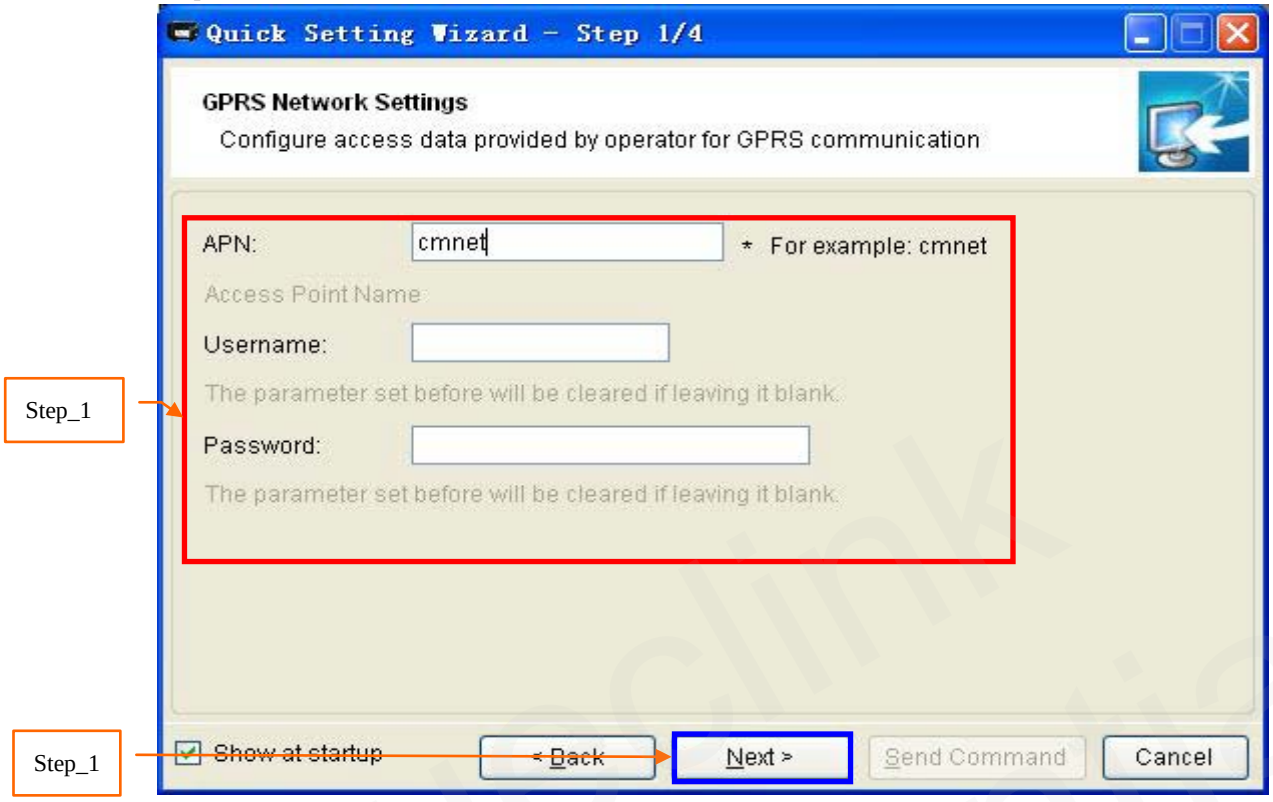
Welcome to Quick Setting Wizard

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 "*GV300 @Track Air Interface Protocol*" for detail.

Step_2: Then click "*Next*".

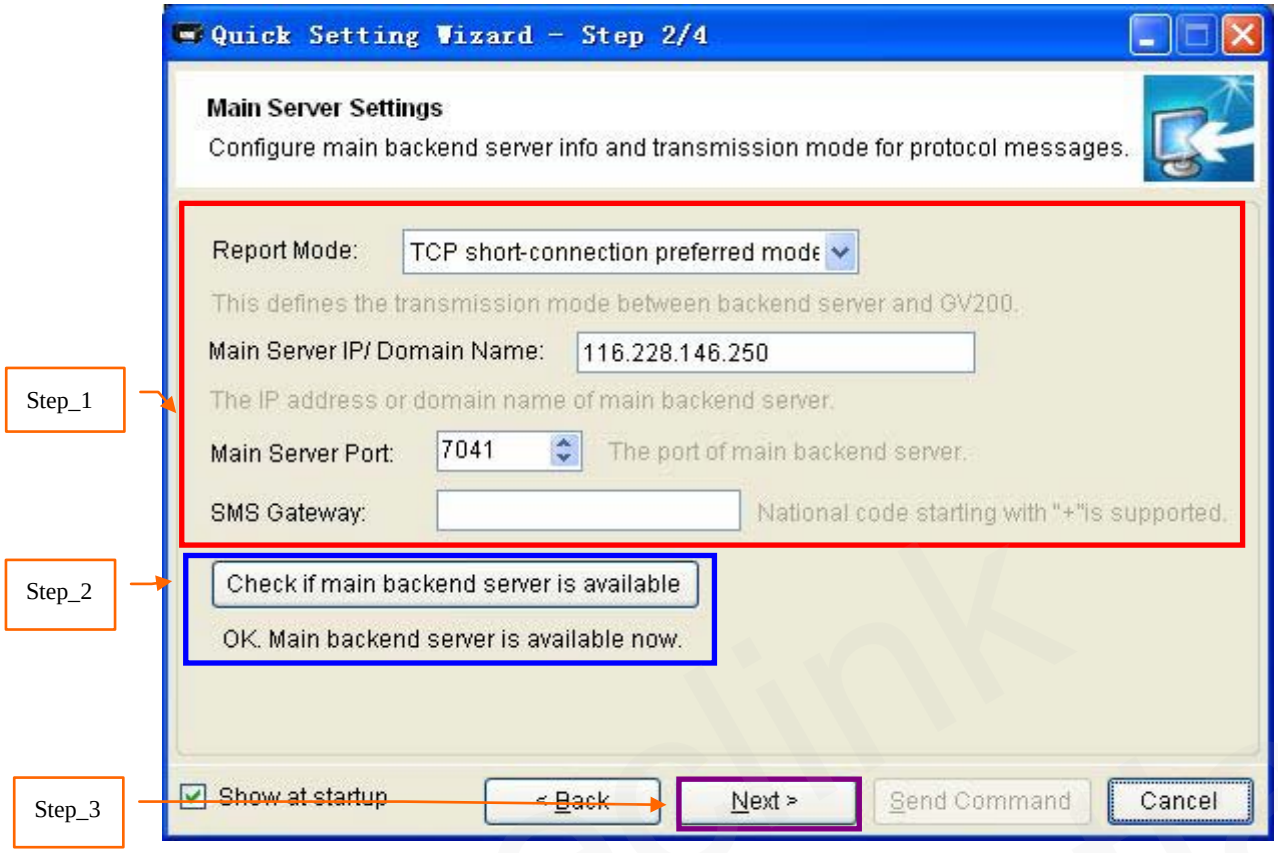


3.1.3. Main Server Setting

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 "*GV300 @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.

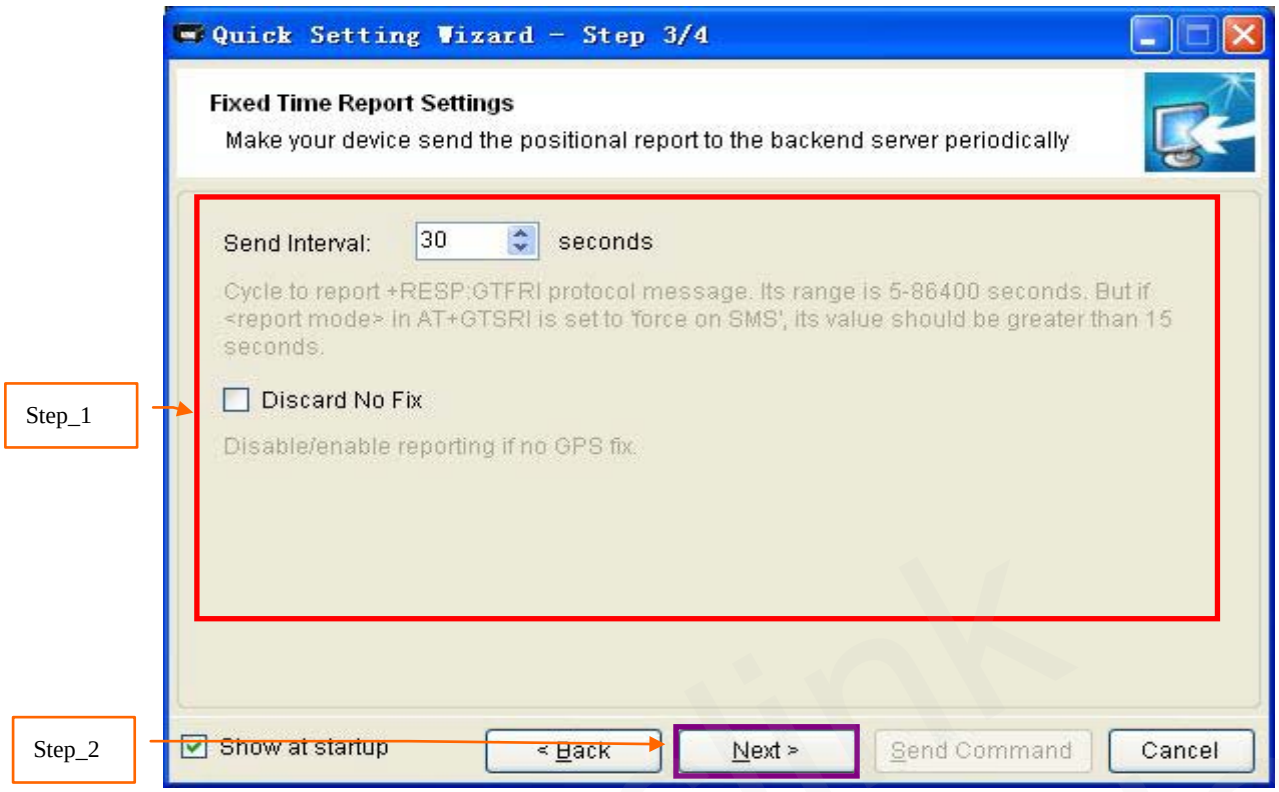
Step_3: Click "*Next*".



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 "*GV300 @Track Air Interface Protocol*" for detail.

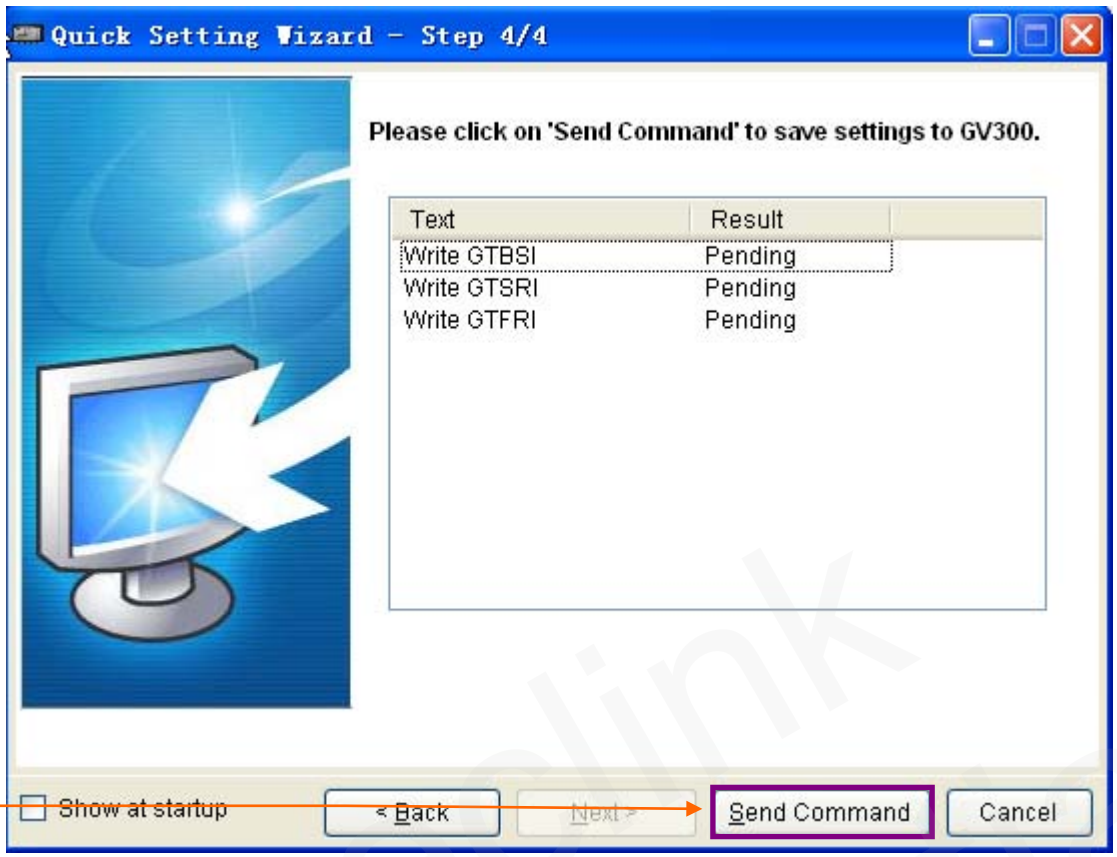
Step_2: Click "*Next*".



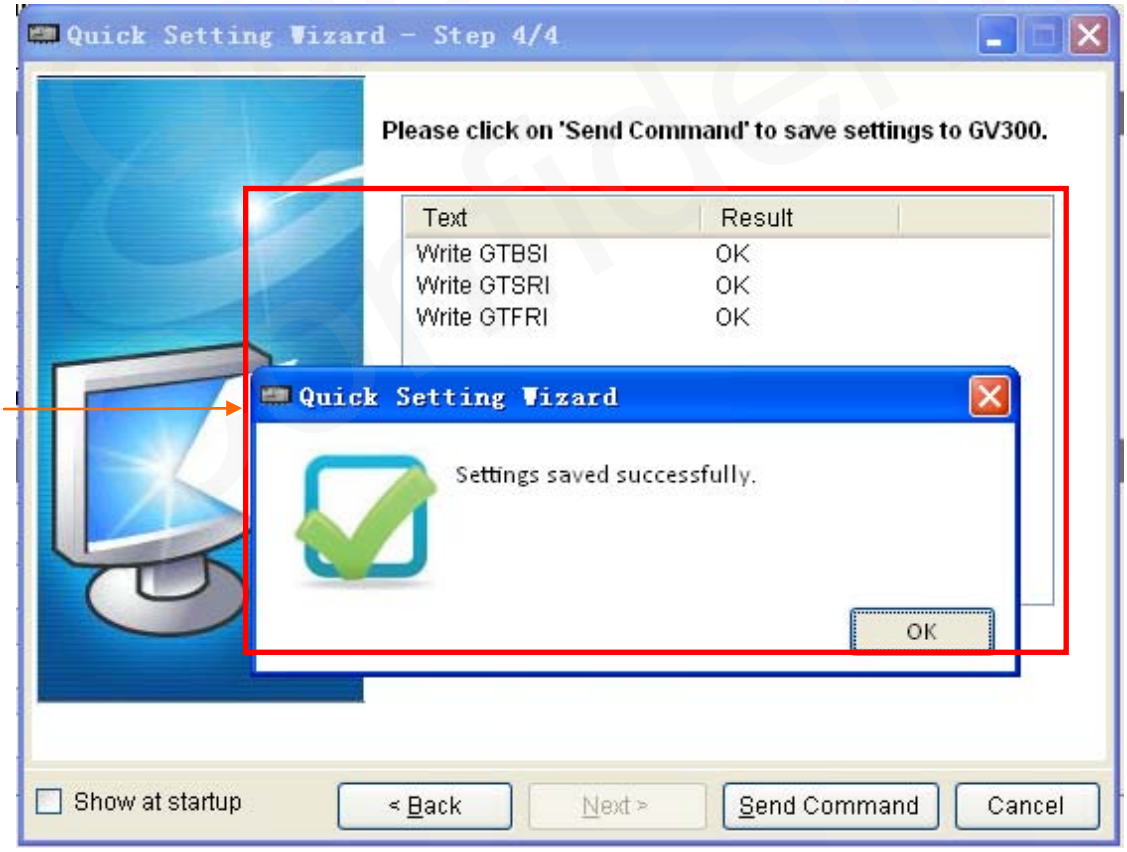
3.1.5. Send Command to Device

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.


Quick Setting Wizard - Step 4/4
Please click on 'Send Command' to save settings to GV300.
Text
Result
Write GTBSI
Pending
Write GTSRI
Pending
Write GTFRI
Pending
Show at startup
< Back
Next >
Send Command
Cancel

Step_1


Quick Setting Wizard - Step 4/4
Please click on 'Send Command' to save settings to GV300.
Text
Result
Write GTBSI
OK
Write GTSRI
OK
Write GTFRI
OK
Quick Setting Wizard
Settings saved successfully.
OK
Show at startup
< Back
Next >
Send Command
Cancel

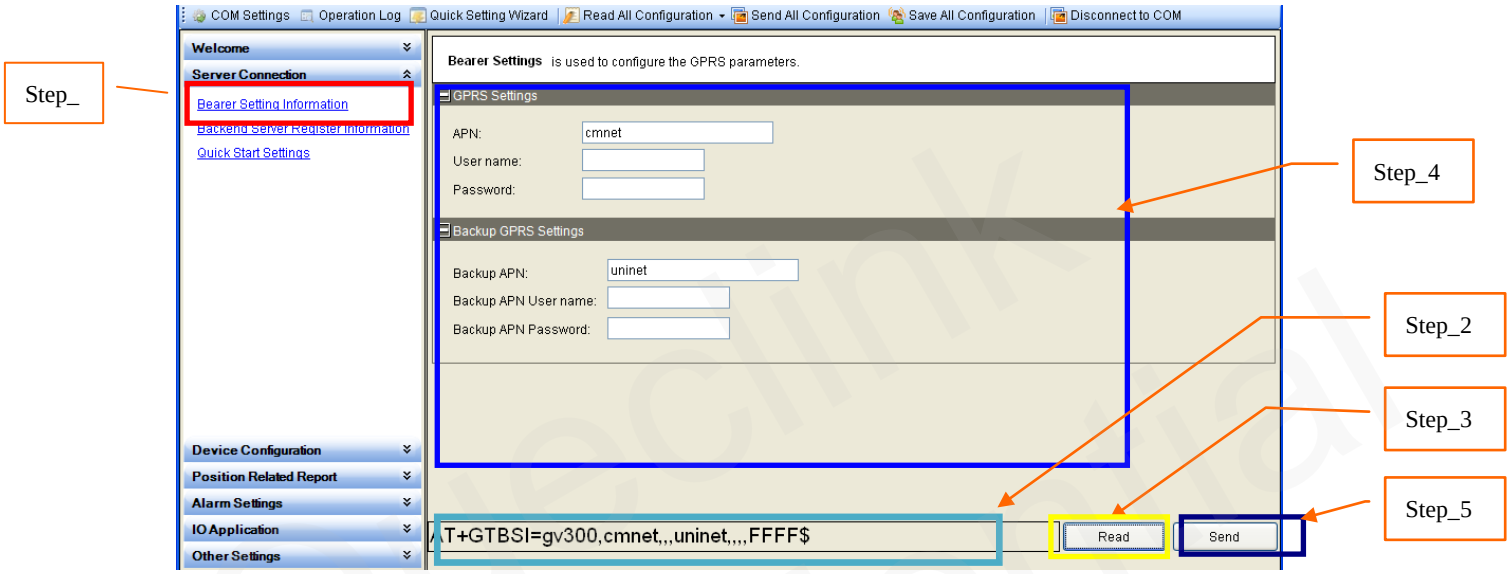
Step_2

3.2. Device Configuration in Professional Setting Mode

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "*GV300 @Track Air Interface Protocol*" for detail.

Following is a general procedure to configure GV300 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.

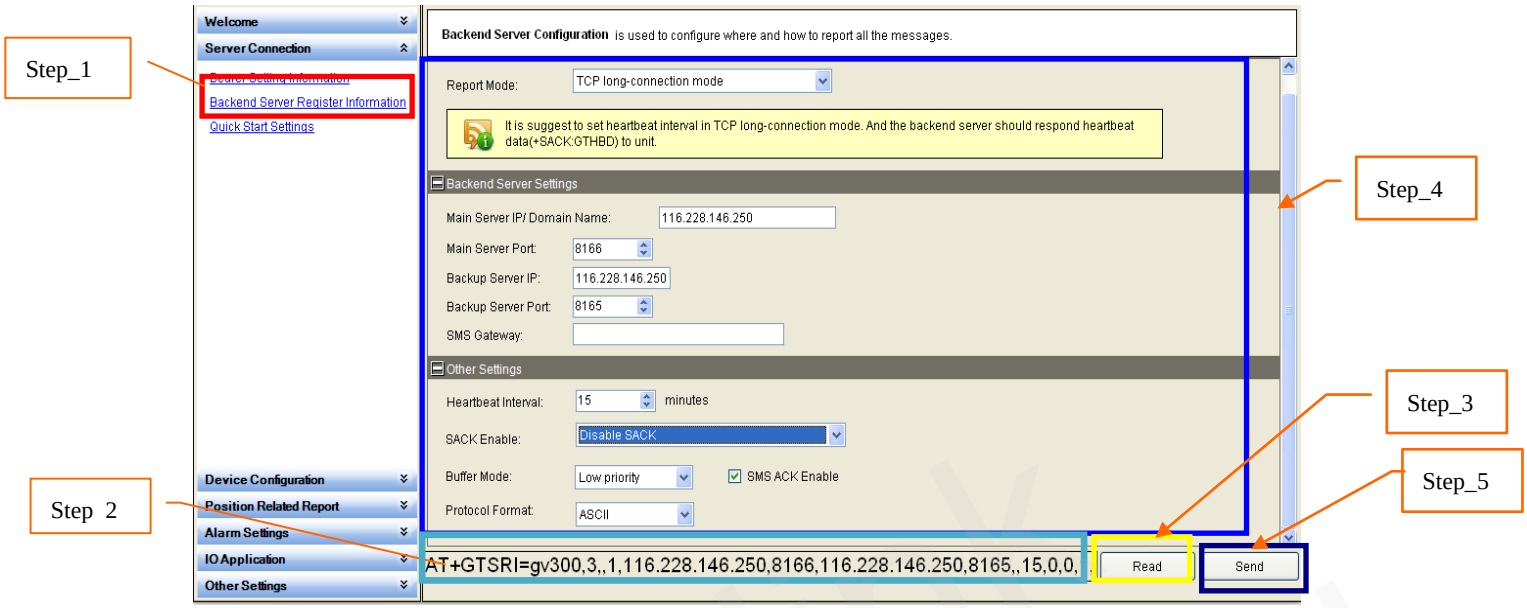
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set APN parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTBSI to GV300.

3.2.2. Set the parameters of backend server register information



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

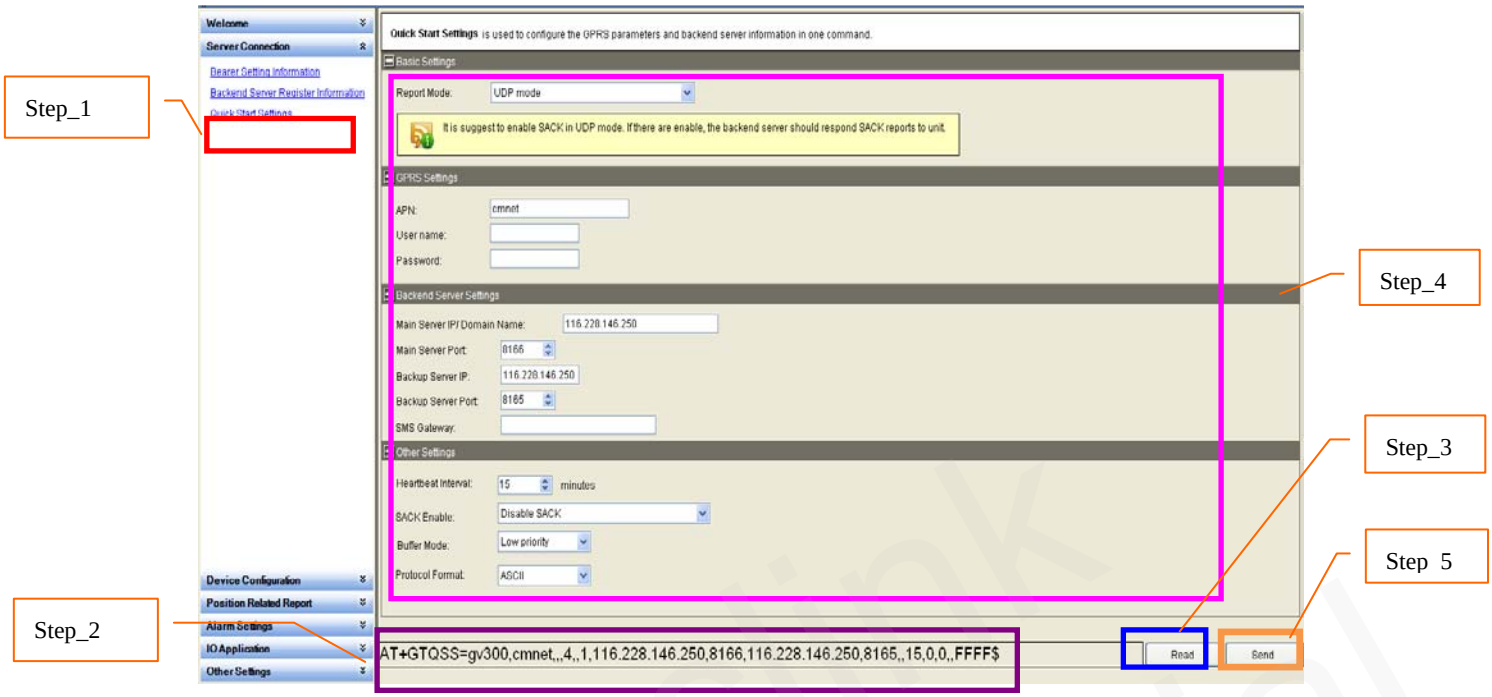
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set backend server information parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSRI to GV300.

3.2.3. Set the parameters of quick start setting



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

Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

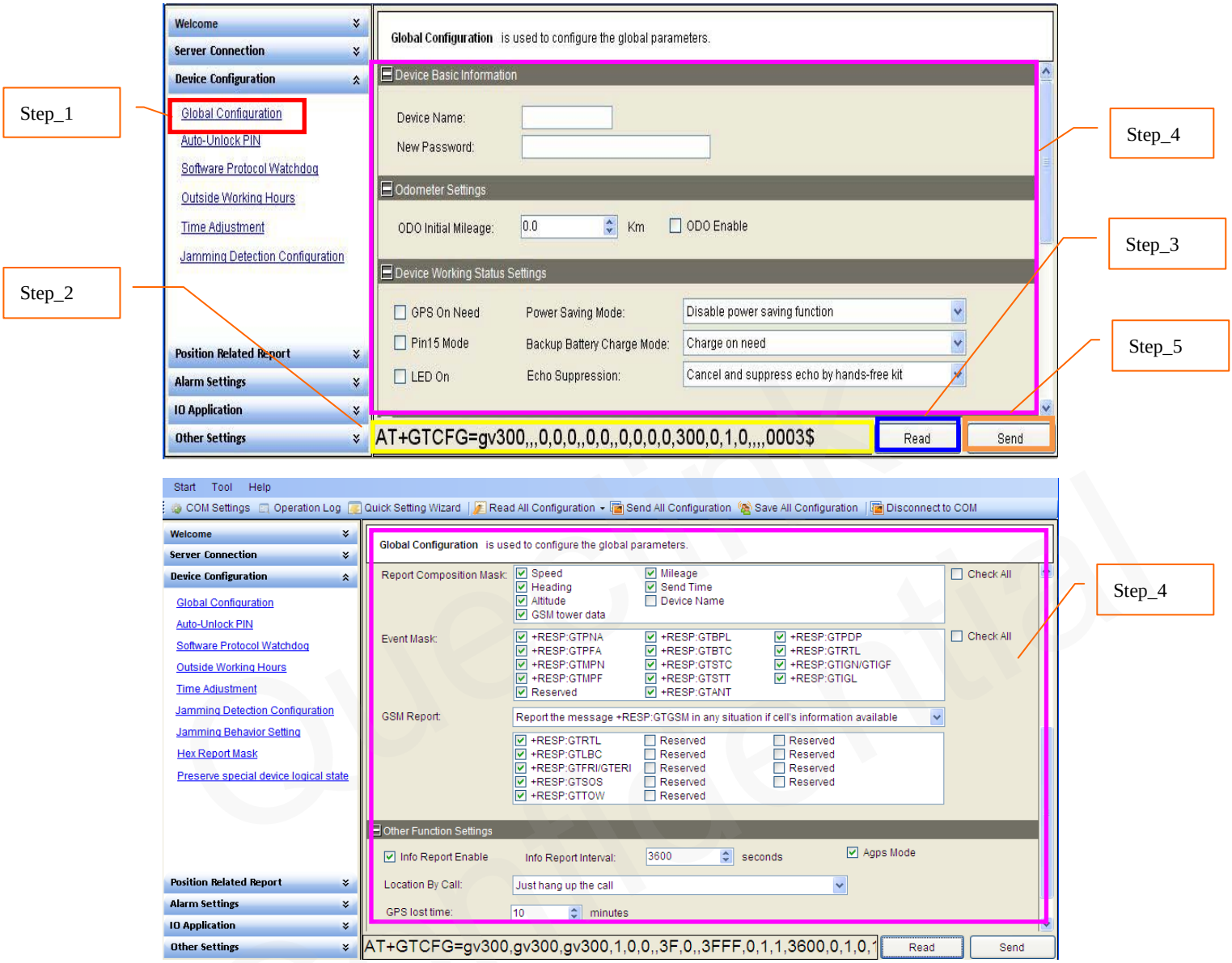
Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the GPRS and backend server information parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTQSS to GV300.

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.

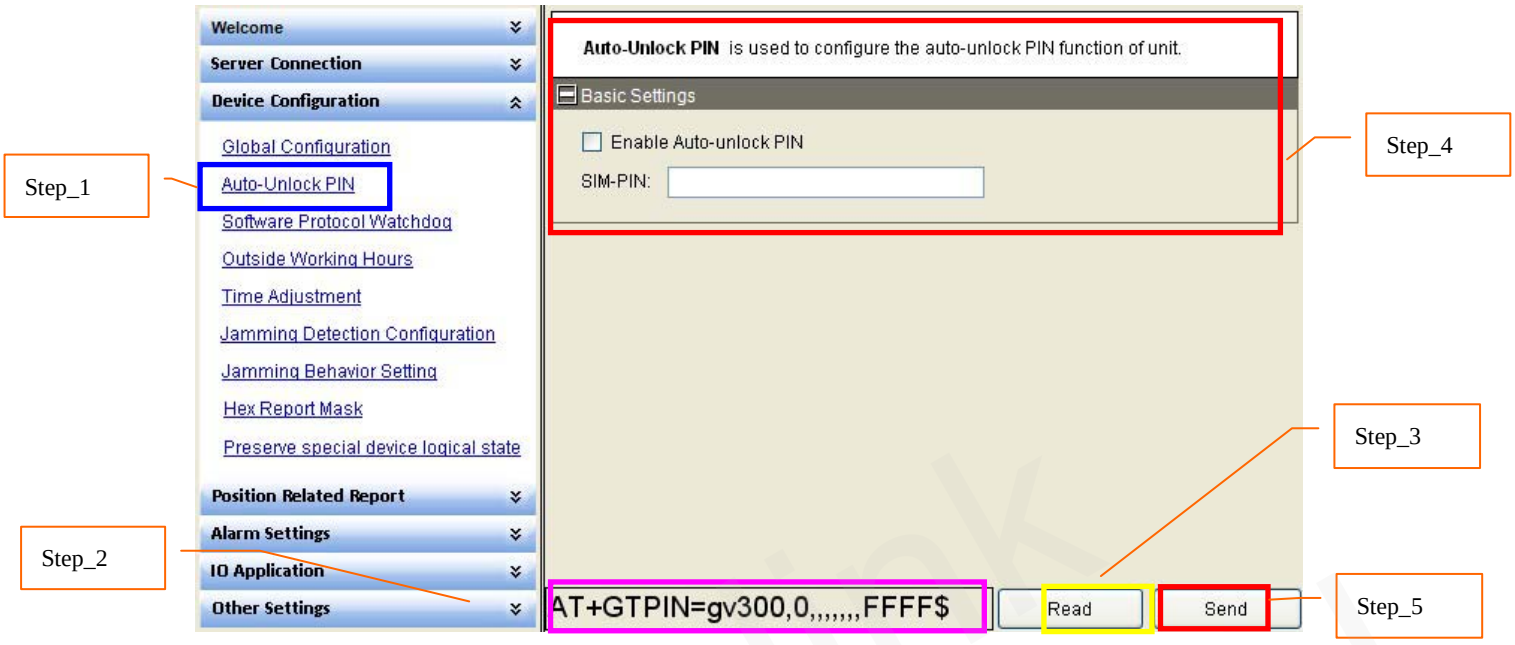
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the global parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTCFG to GV300.

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.

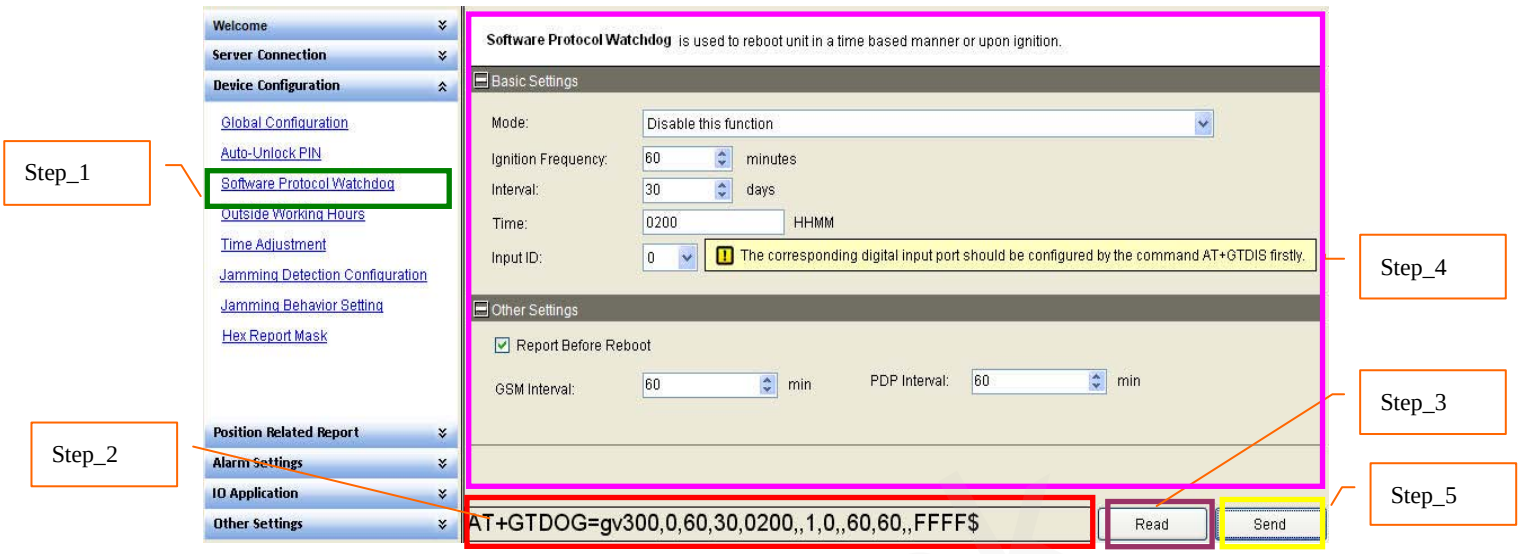
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the auto-unlock PIN parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTPIN to GV300.

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.

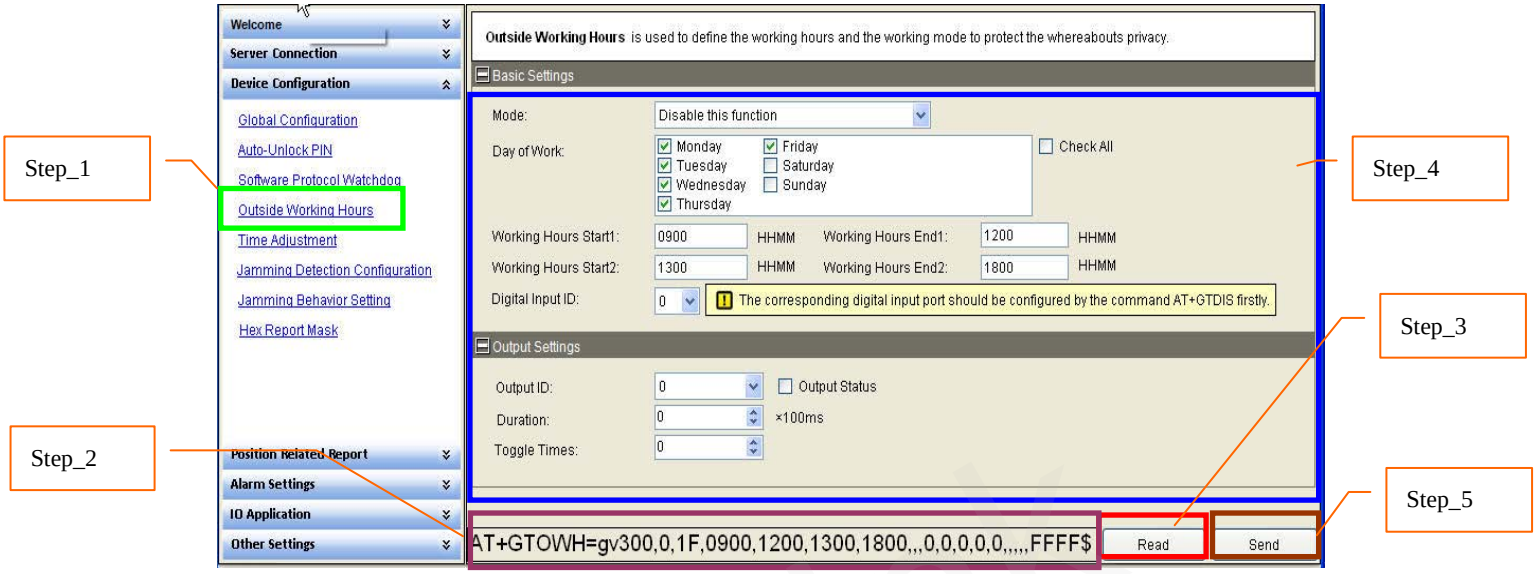
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the software protocol watchdog parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTDOG to GV300.

3.2.7. Set the parameters of outside working hours



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

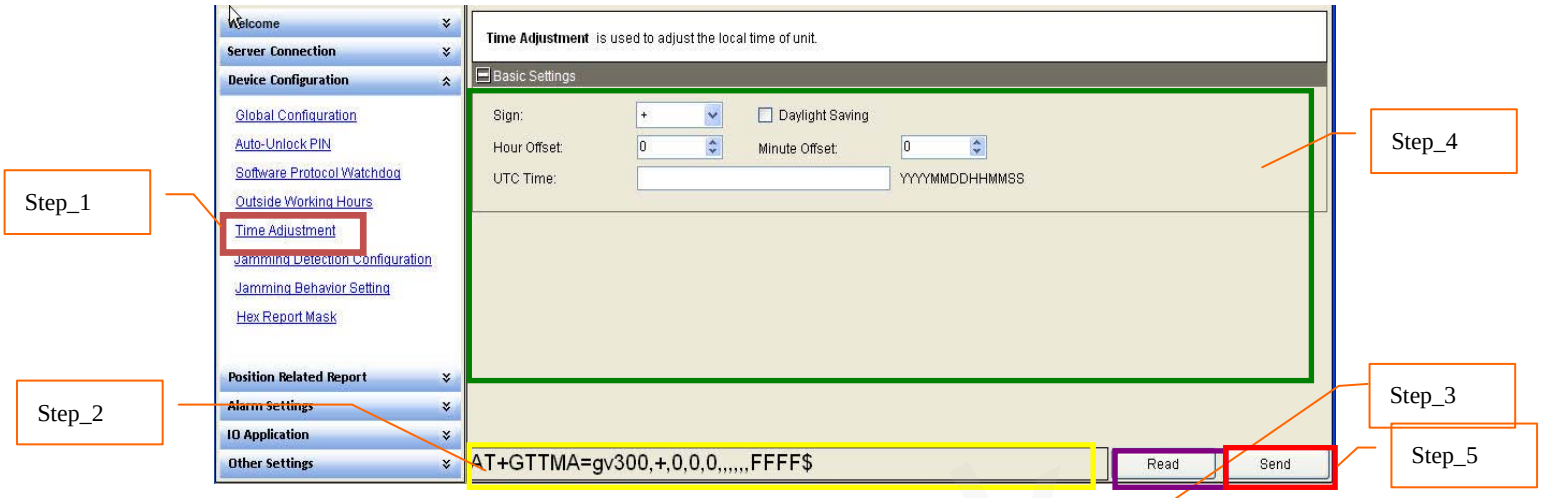
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the outside working hours parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTOWH to GV300.

3.2.8. Set the parameters of time adjustment



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

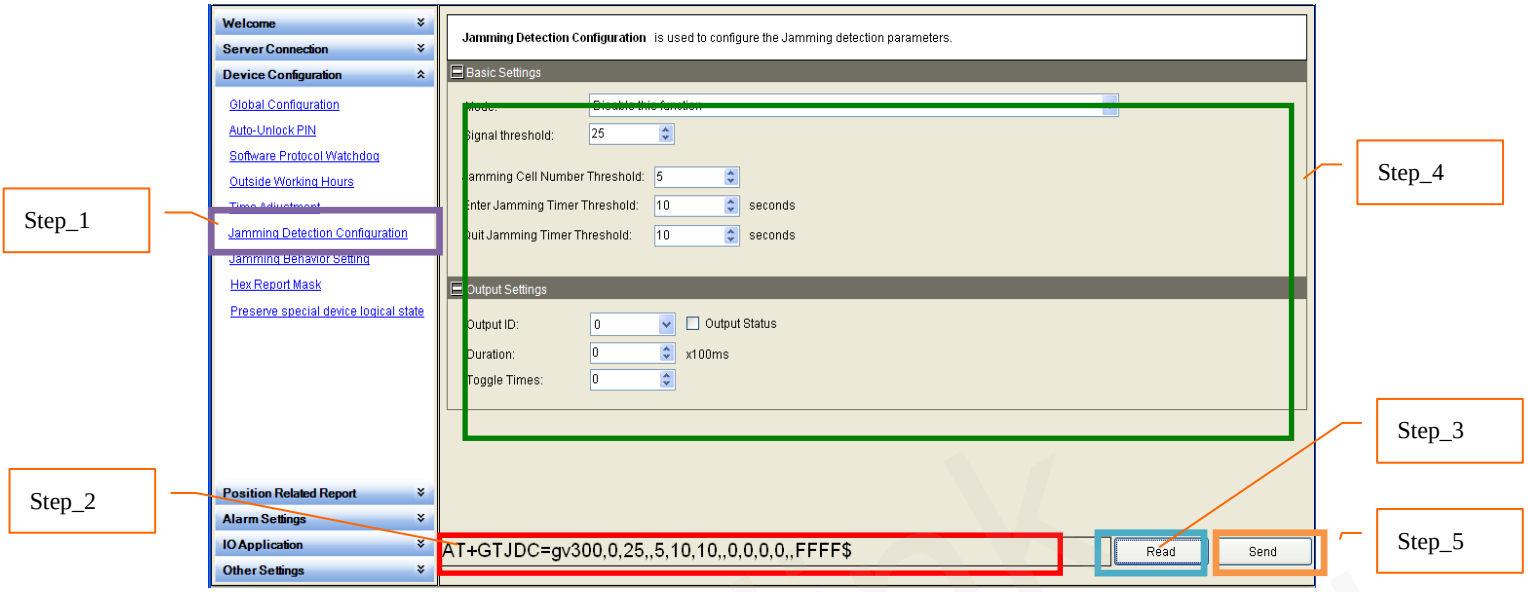
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the time adjustment parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTTMA to GV300.

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.

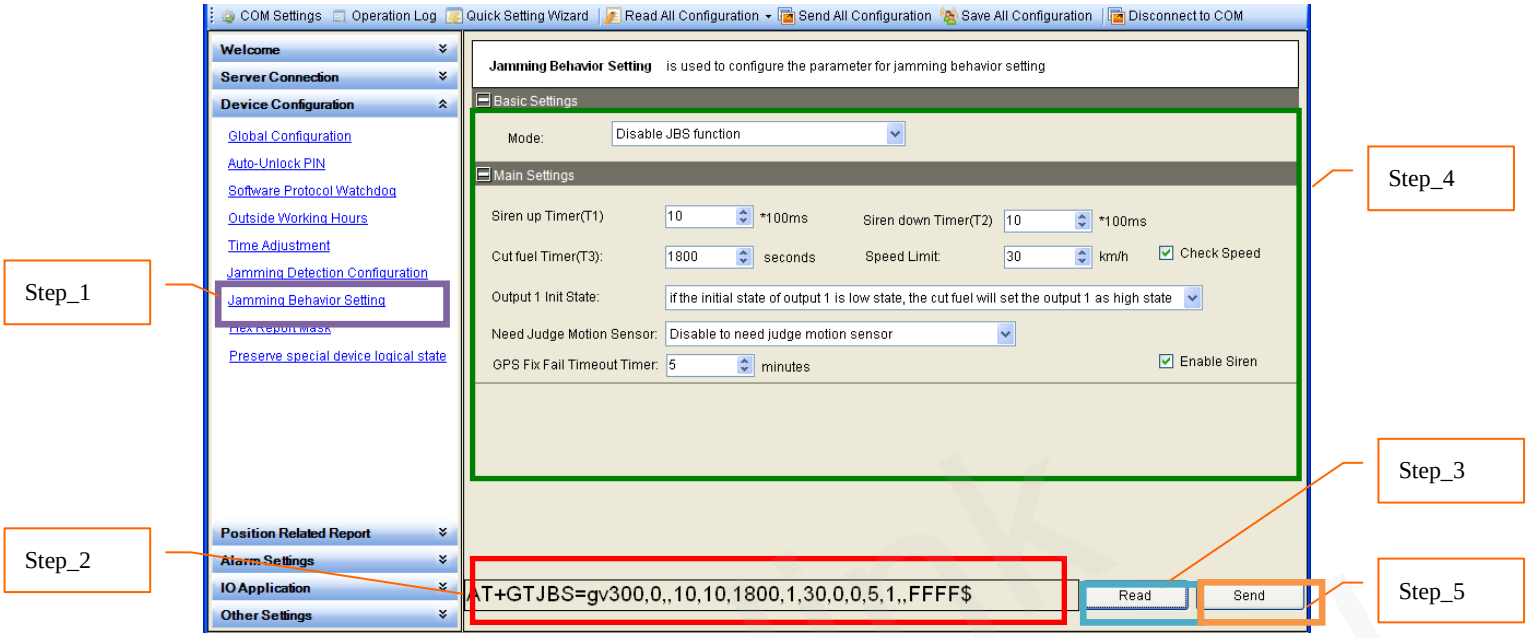
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the jamming detection parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTJDC to GV300.

3.2.10. Set the parameters of jamming behavior setting



Step_1: Select "*Jamming Behavior Setting*", after that the parameters of GTJBS show in Command Operation Space.

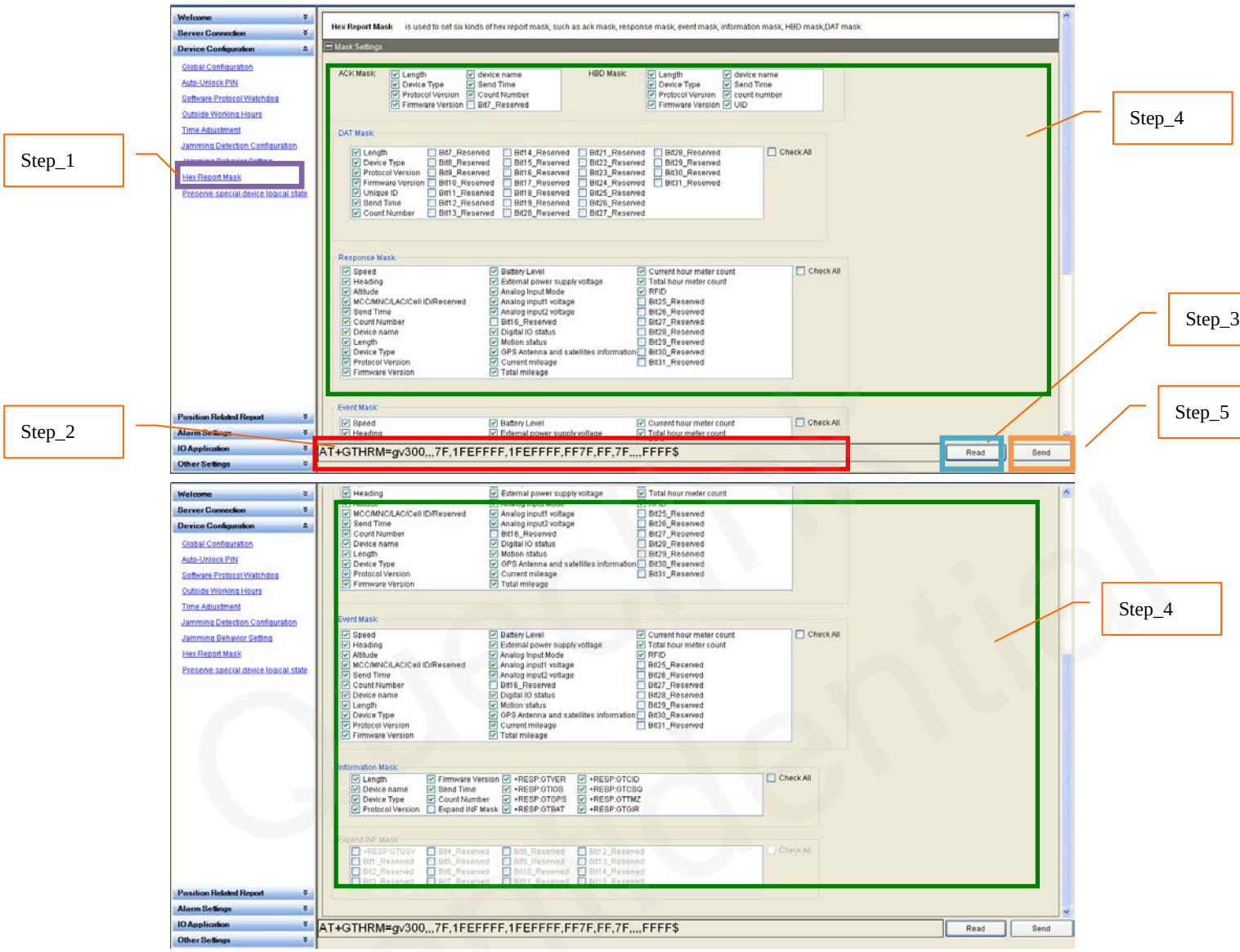
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the jamming behavior setting parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTJBS to GV300.

3.2.11. 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.

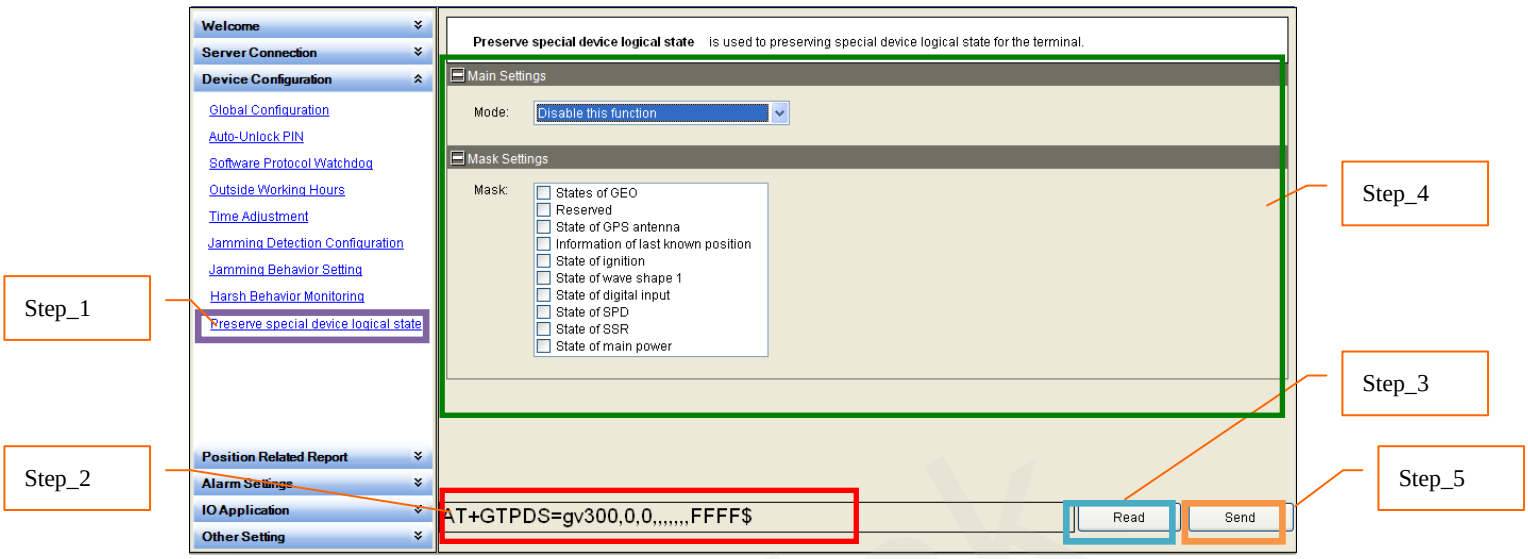
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the hex report mask parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter

Step_5: Click the "*Send*" button; download the parameters of GTHRM to GV300.

3.2.12. Set the parameters of preserve special device logical state



Step_1: Select "*Preserve special device logical state*", after that the parameters of GTPDS show in Command Operation Space.

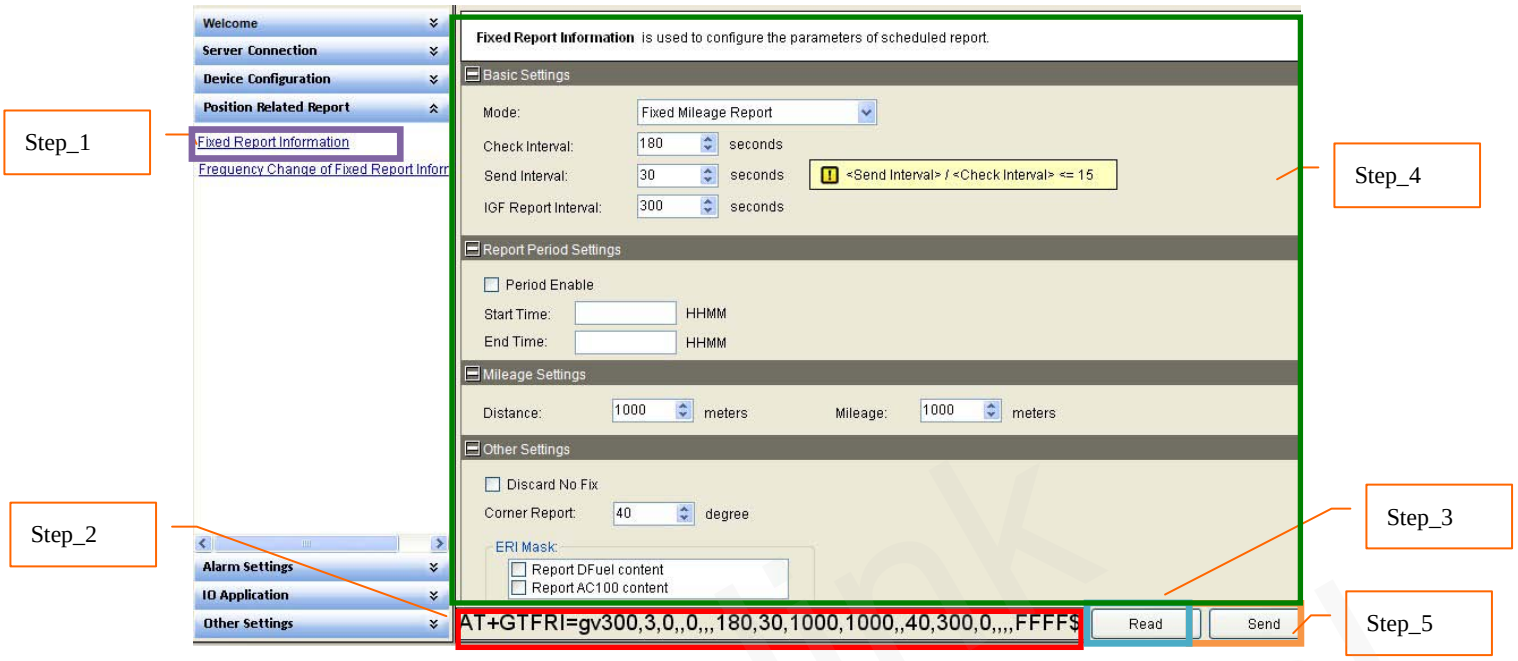
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set preserve special device logical state parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTPDS to GV300.

3.2.13. Set the parameters of fixed report information



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

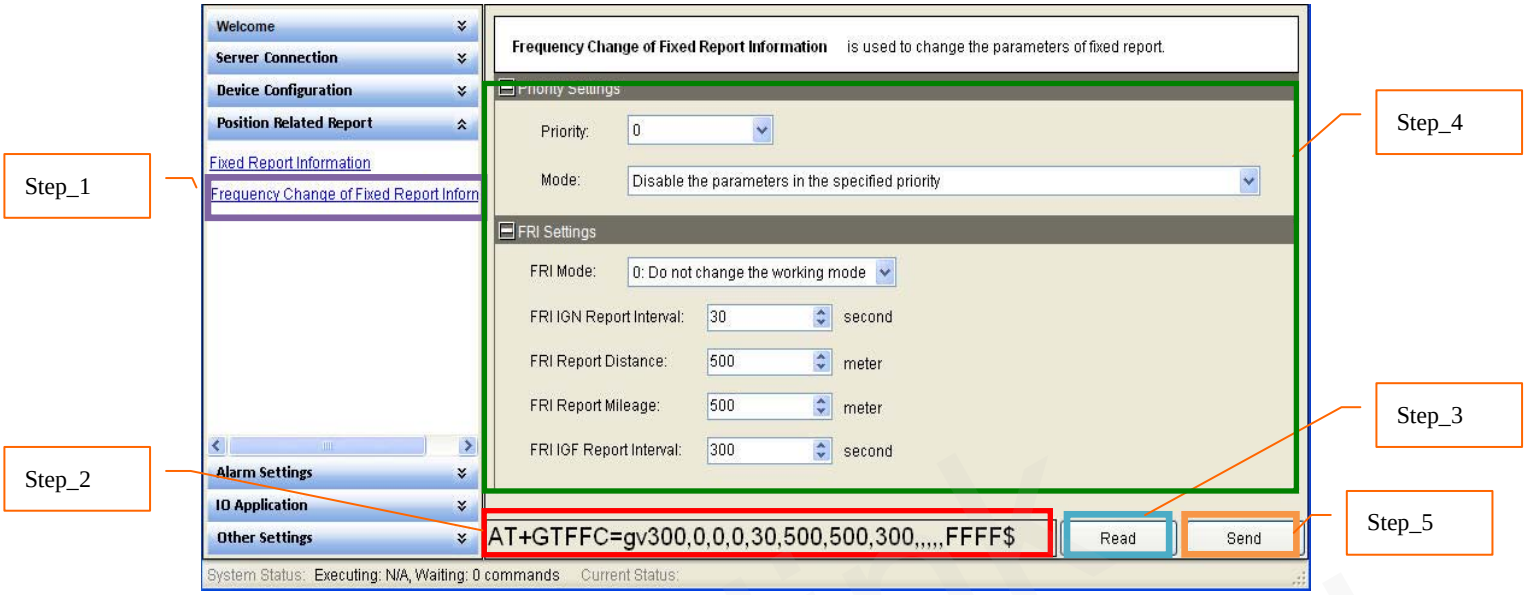
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the scheduled report parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTFRI to GV300.

3.2.14. Set the parameters of frequency change of fixed report information



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

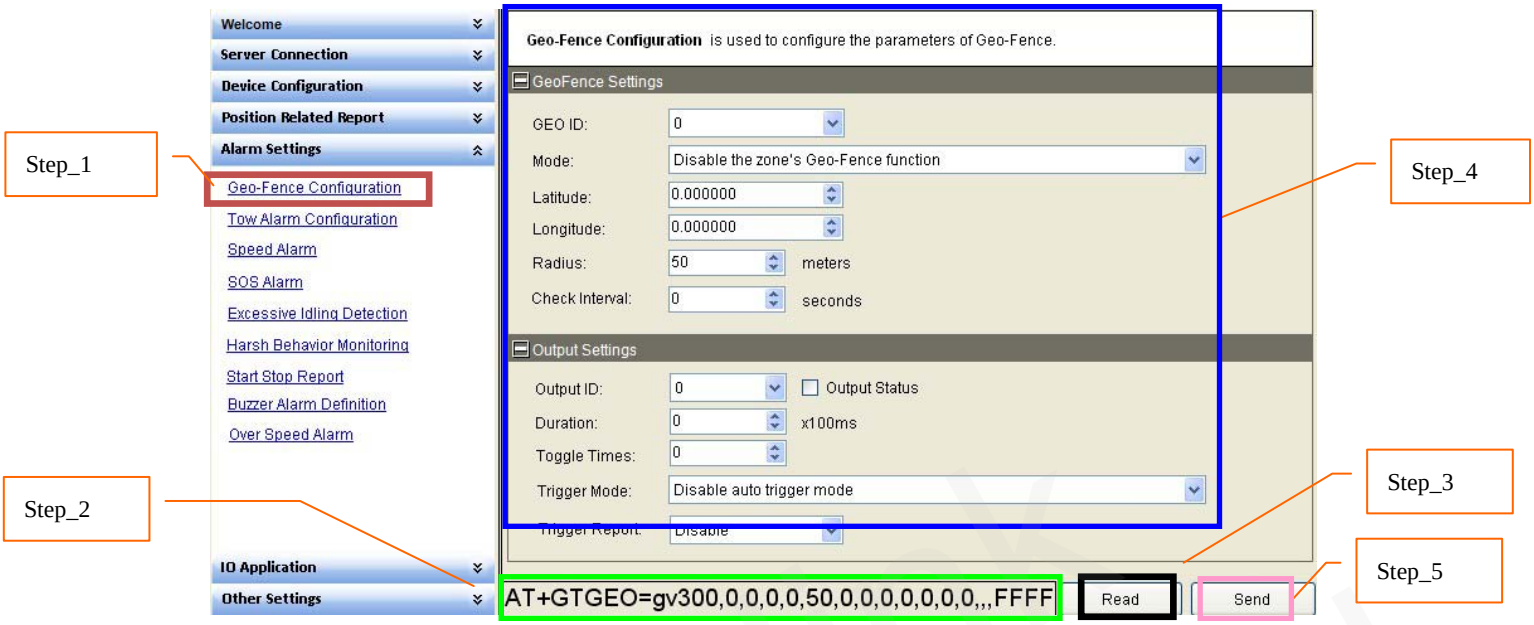
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Frequency Change of Fixed Report Information parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTFFC to GV300.

3.2.15. Set the parameters of Geo-fence information



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

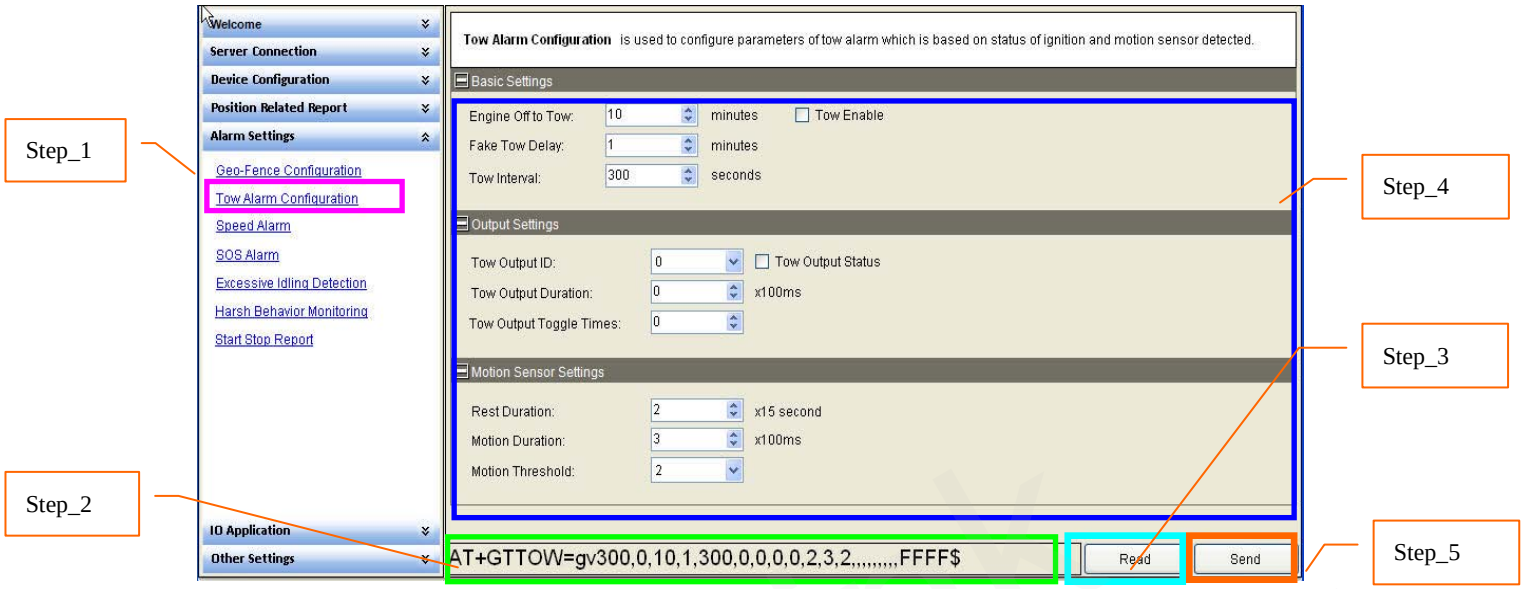
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Geo-Fence parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTGEO to GV300.

3.2.16. Set the parameters of tow alarm configuration



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

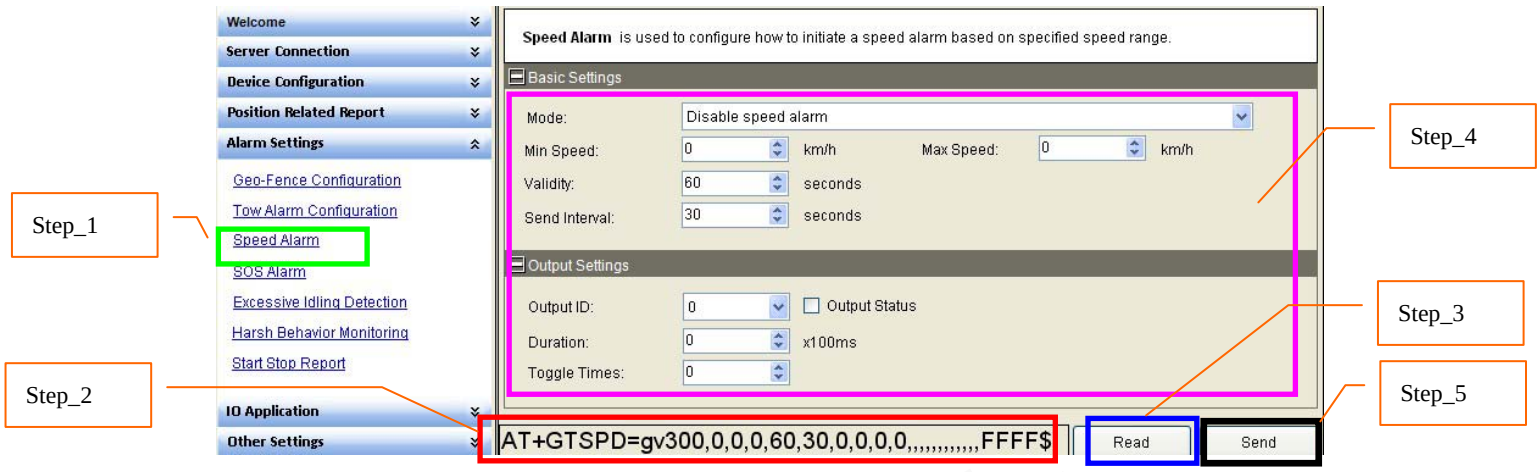
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the tow alarm parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTTOW to GV300.

3.2.17. Set the parameters of speed alarm



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

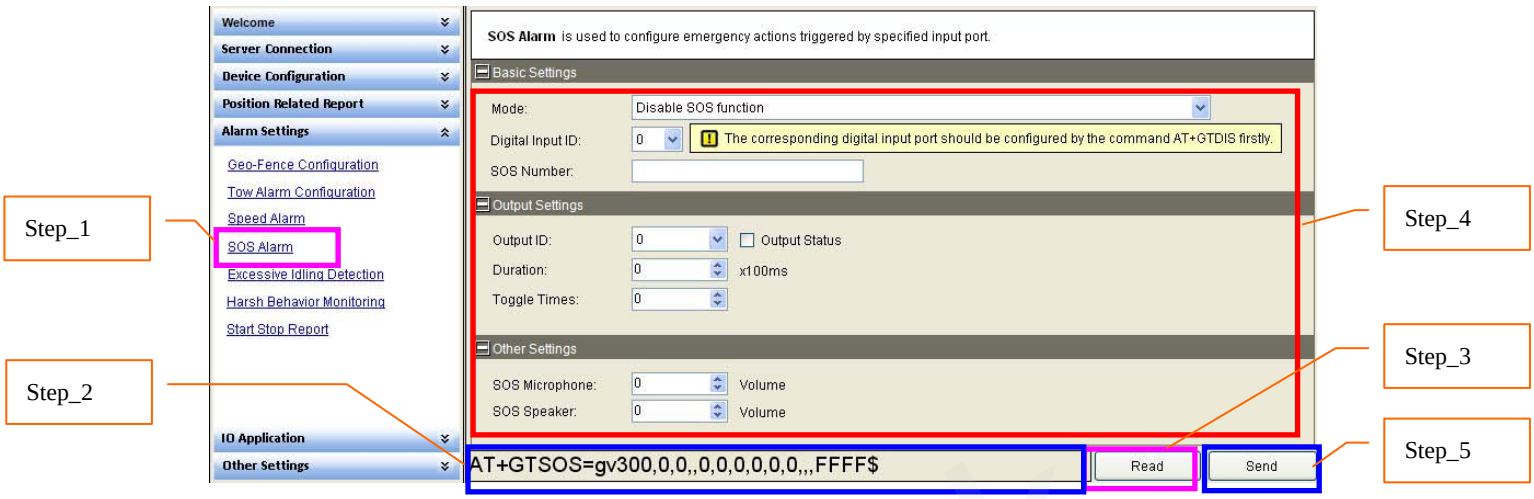
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the speed alarm parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSPD to GV300.

3.2.18. Set the parameters of SOS function



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

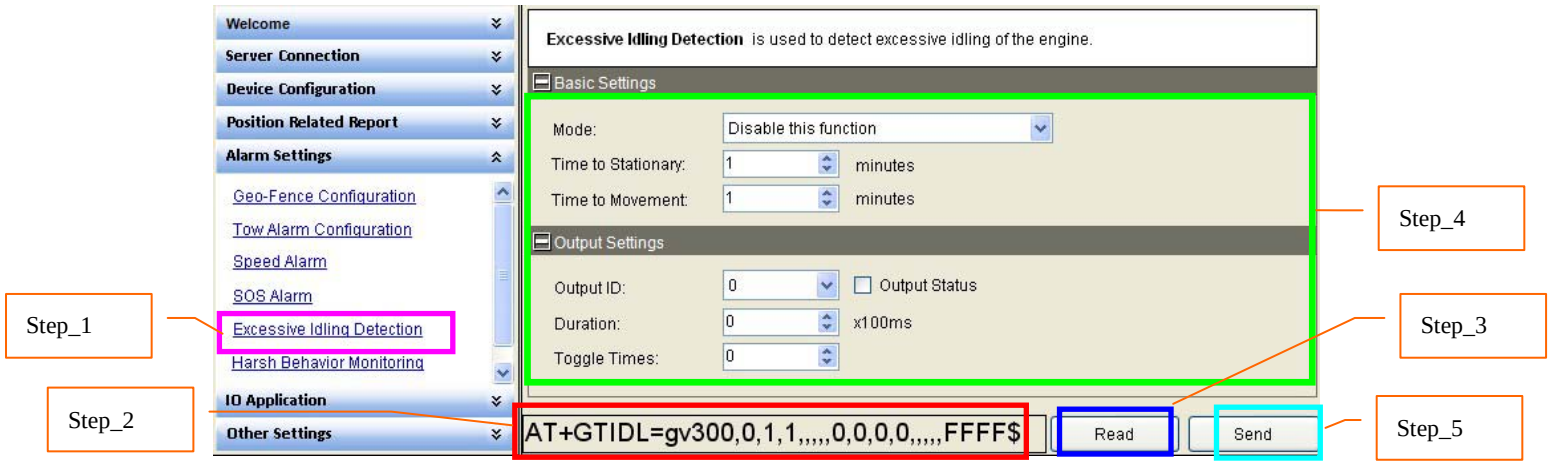
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the SOS alarm parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSOS to GV300.

3.2.19. Set the parameters of excessive idling detection



Step_1: Select "*Excessive Idling Detection*", after that the parameters of GTIDL show in Command Operation Space.

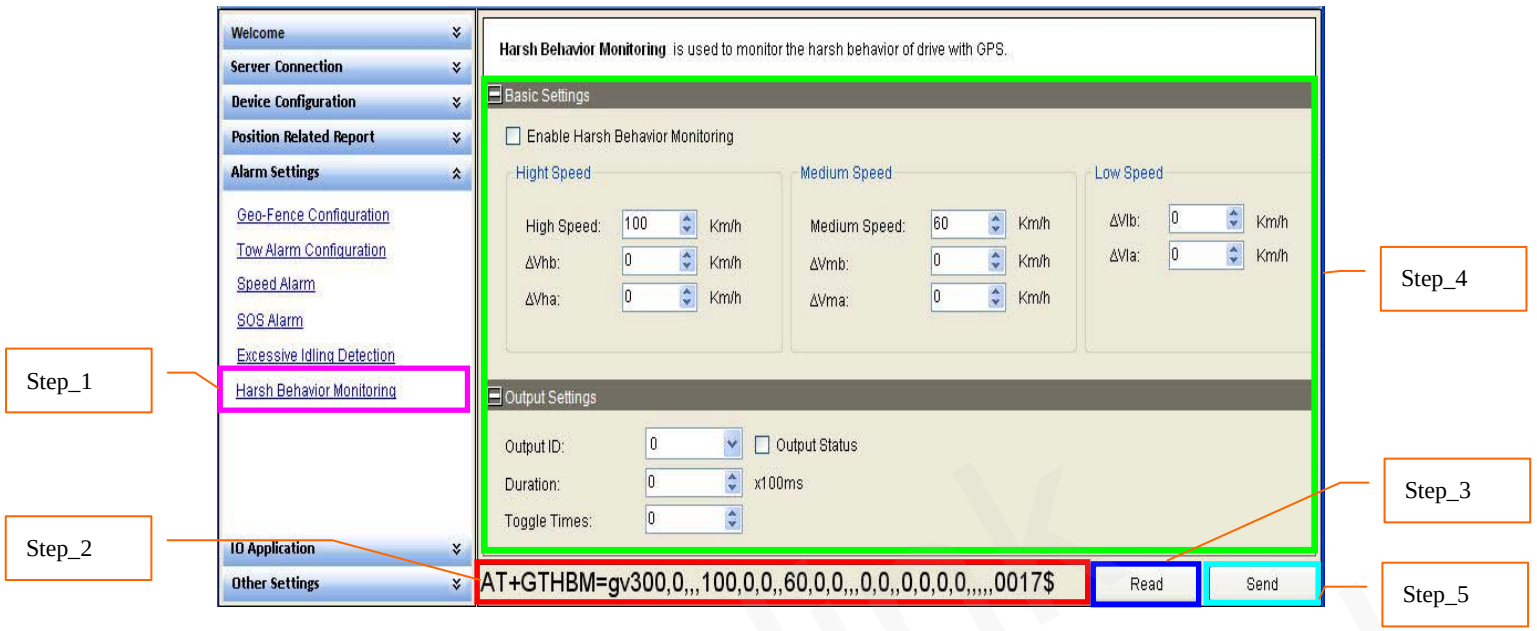
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the excessive idling parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTIDL to GV300.

3.2.20. Set the parameters of harsh behavior monitoring



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

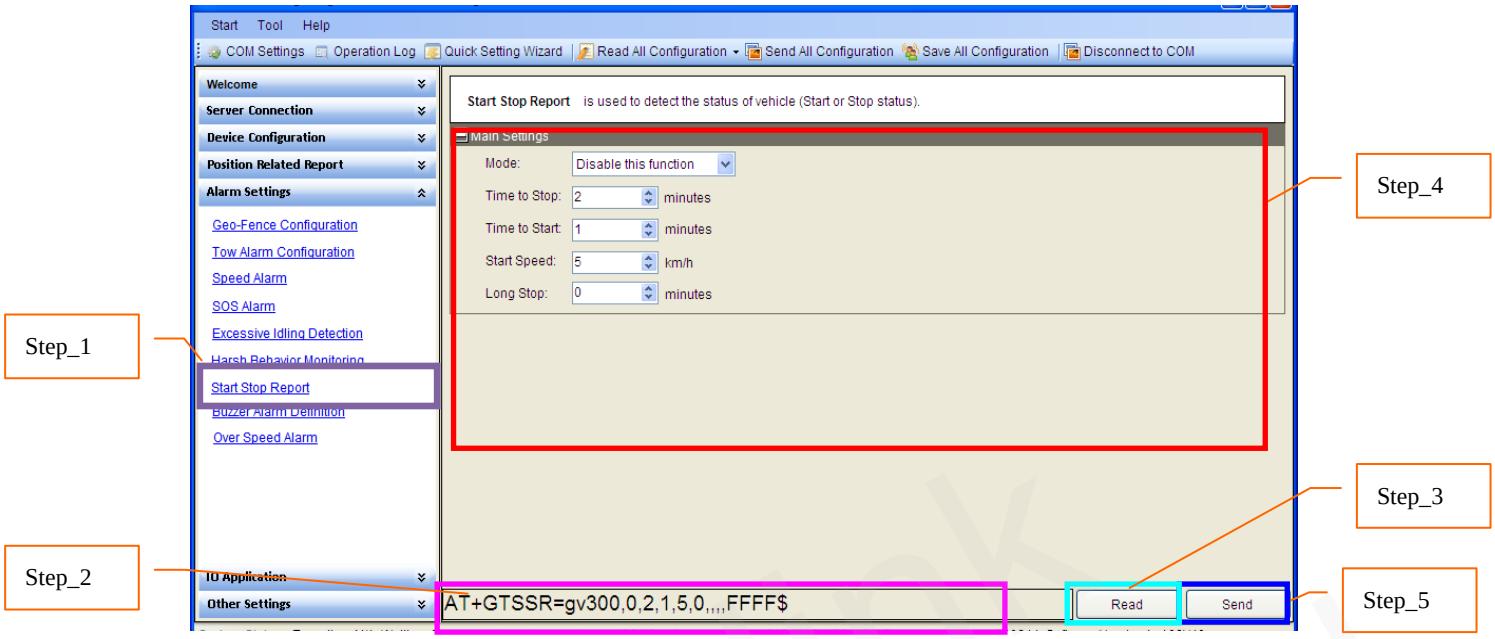
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the harsh behavior monitoring parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTHBM to GV300.

3.2.21. Set the parameters of start stop report



Step_1: Select "*Start Stop Report*", after that the parameters of GTSSR show in Command Operation Space.

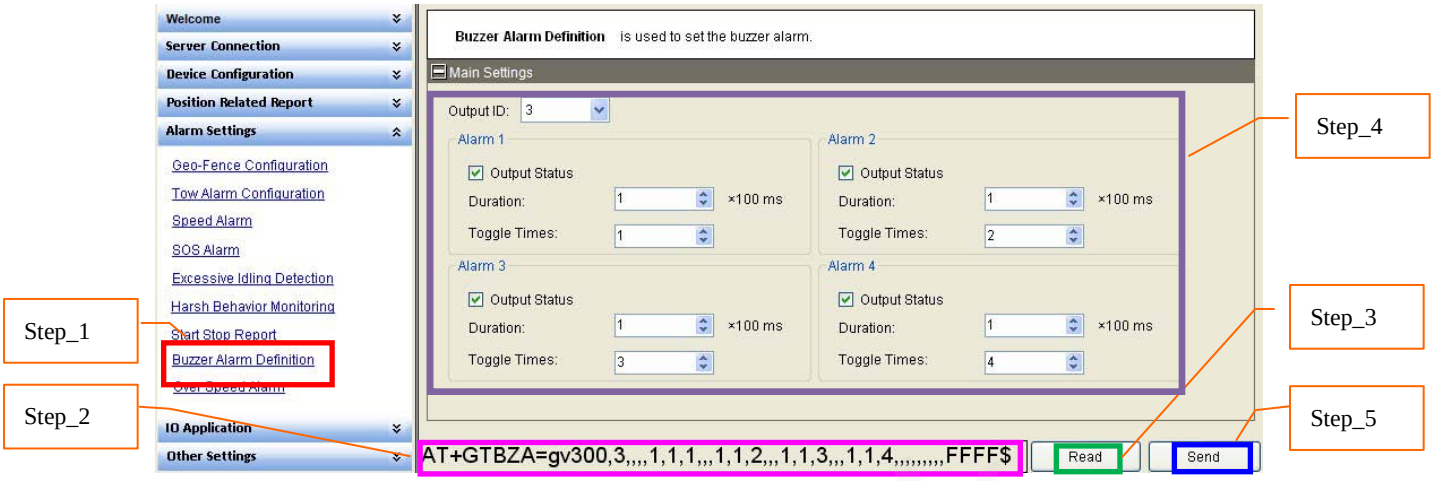
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Start Stop Report parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSSR to GV300.

3.2.22. Set the parameters of buzzer alarm definition



Step_1: Select "*Buzzer Alarm Definition*", after that the parameters of GTBZA show in Command Operation Space.

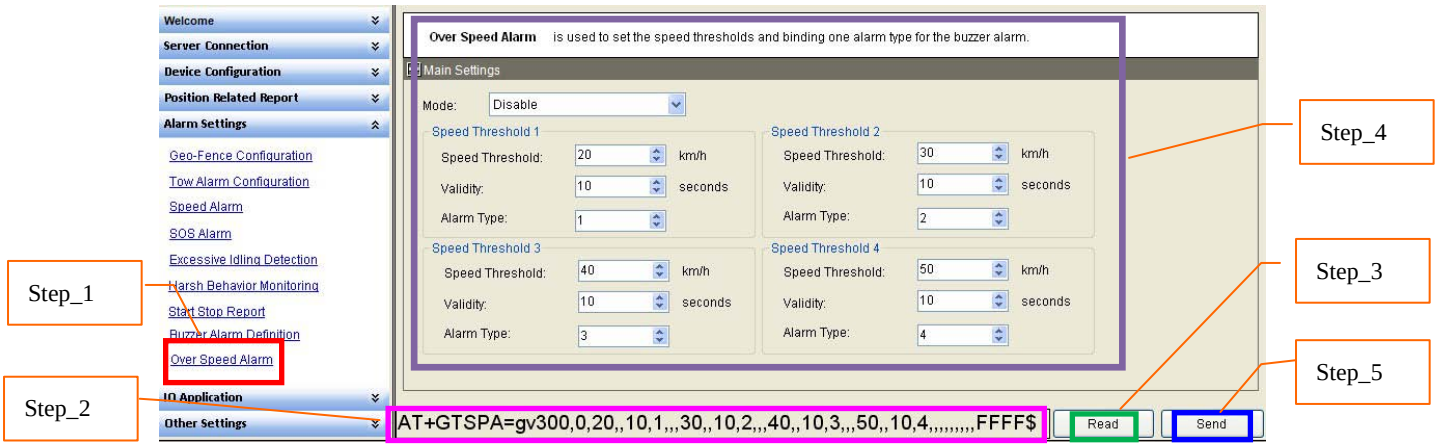
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the buzzer alarm definition parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTBZA to GV300.

3.2.23. Set the parameters of over speed alarm



Step_1: Select "*Over Speed alarm*", after that the parameters of GTSPA show in Command Operation Space.

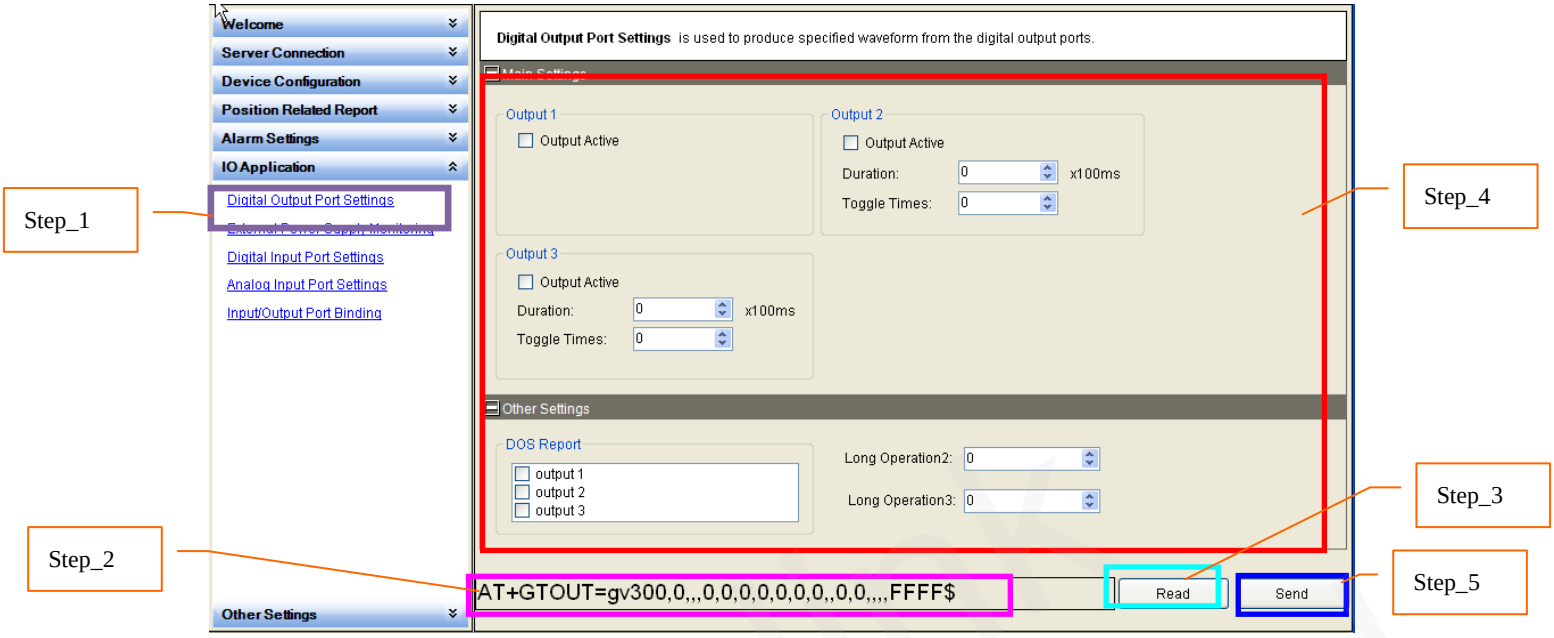
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the over speed alarm parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSPA to GV300.

3.2.24. Set the parameters of digital output settings



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

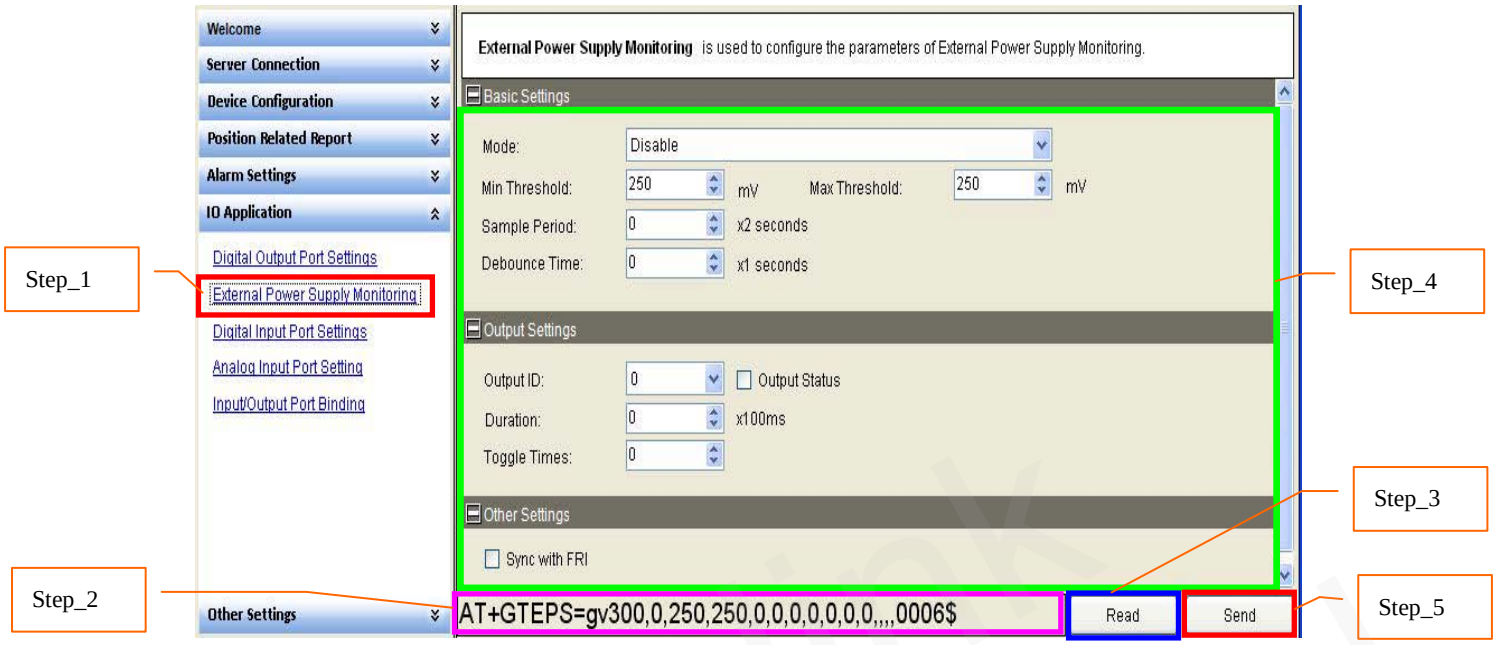
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the digital output parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTOUT to GV300.

3.2.25. Set the parameters of external power supply monitoring



Step_1: Select "*External Power Supply Monitoring*", after that the parameters of GTEPS show in Command Operation Space.

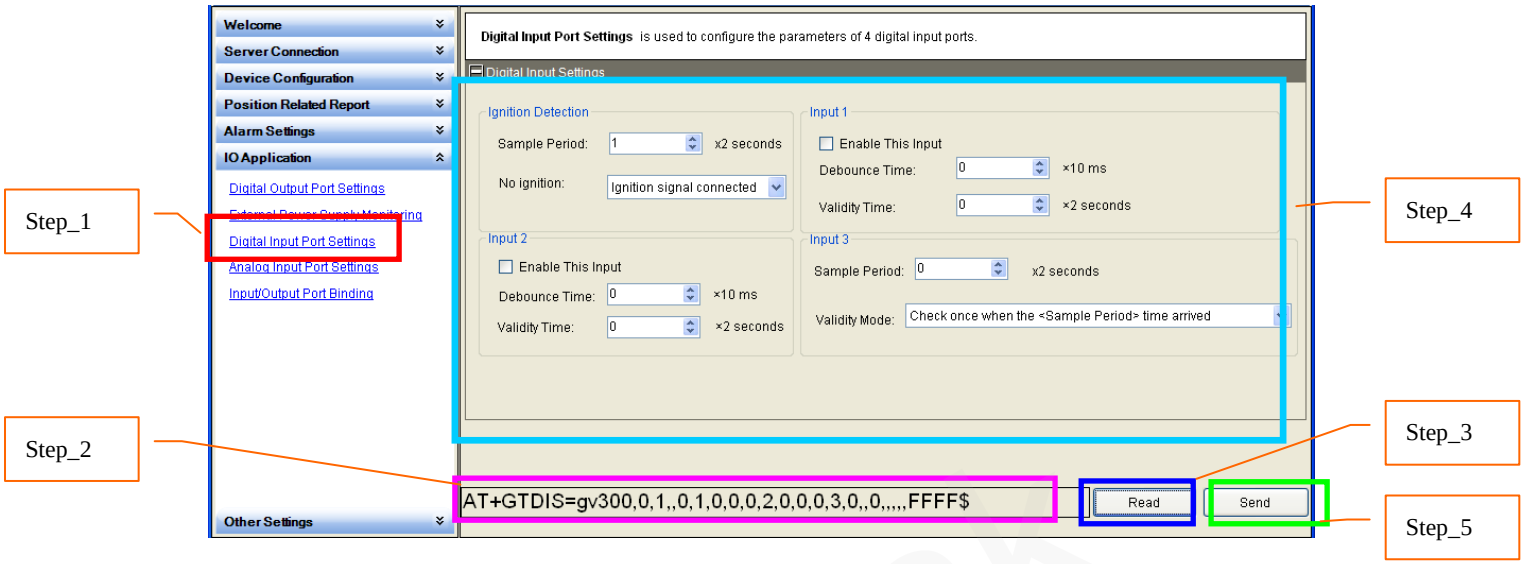
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the external power supply monitoring parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTEPS to GV300.

3.2.26. Set the parameters of digital input port setting



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

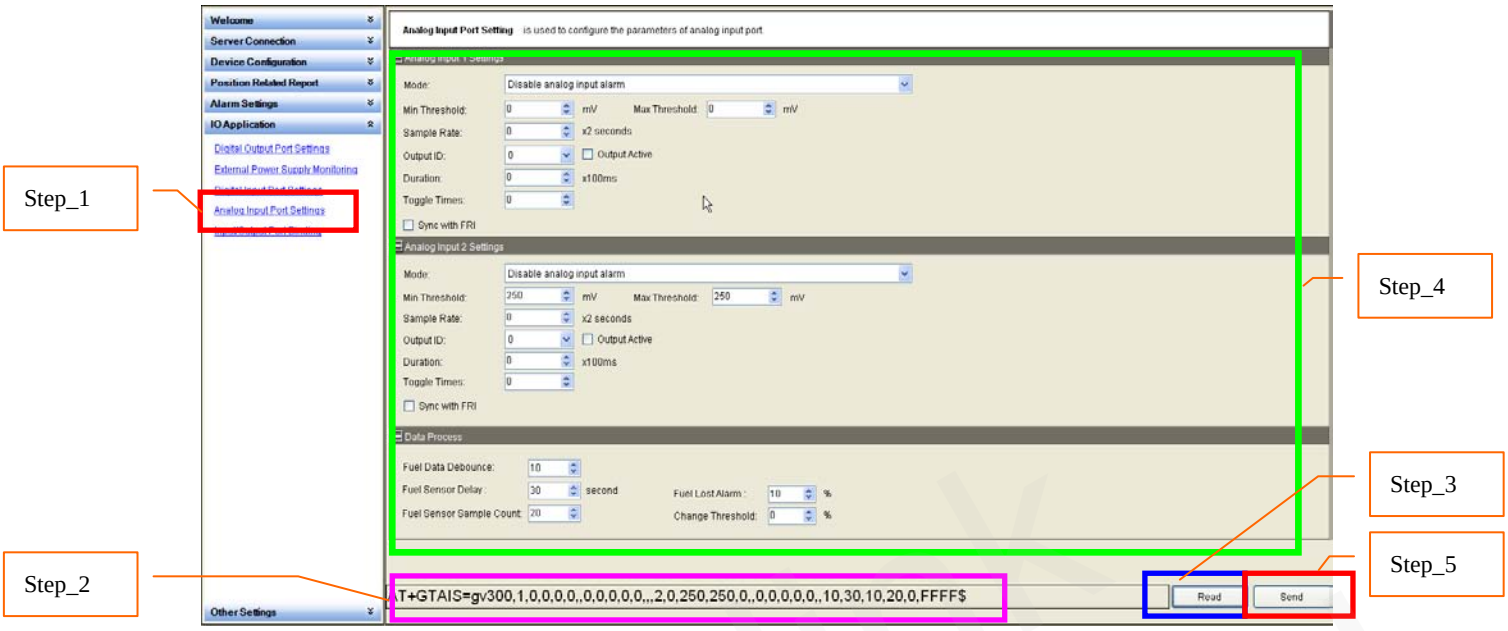
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Digital Input parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTDIS to GV300.

3.2.27. Set the parameters of analog input port setting



Step_1: Select "*Analog Input Port Setting*", after that the parameters of GTAIS show in Command Operation Space.

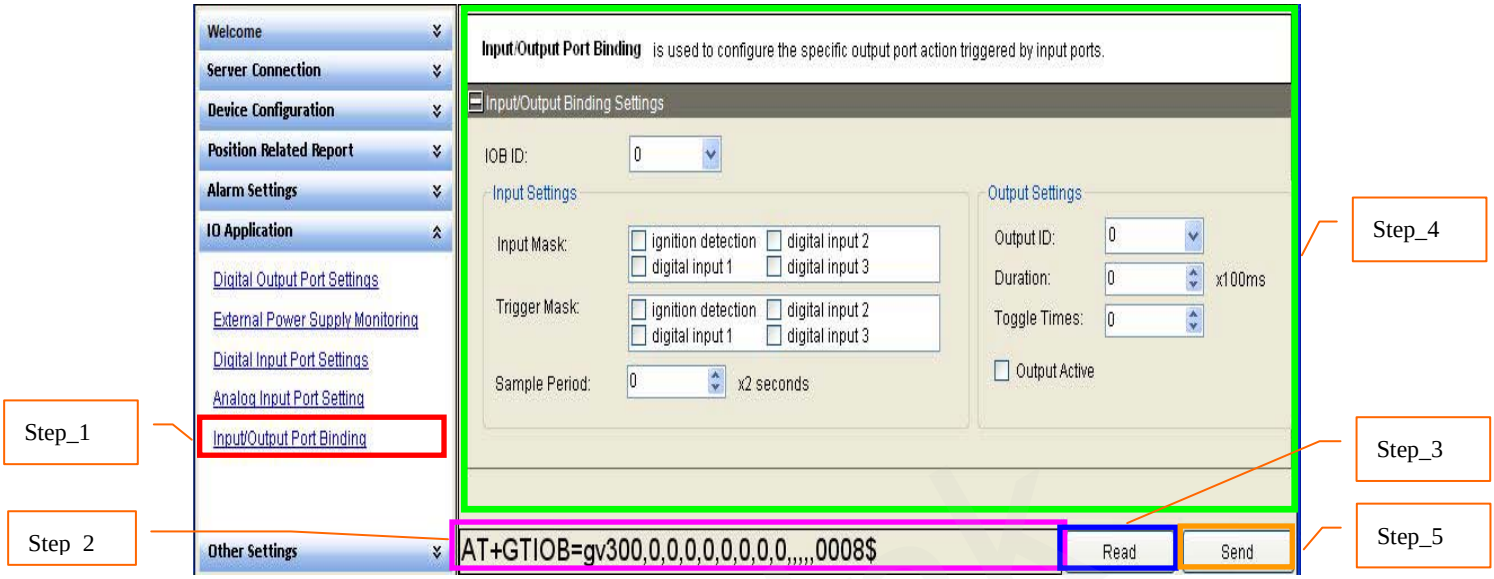
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Analog Input parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTAIS to GV300.

3.2.28. Set the parameters of input/output port binding



Step_1: Select "*Input/Output Port Binding*", after that the parameters of GTIOB show in Command Operation Space.

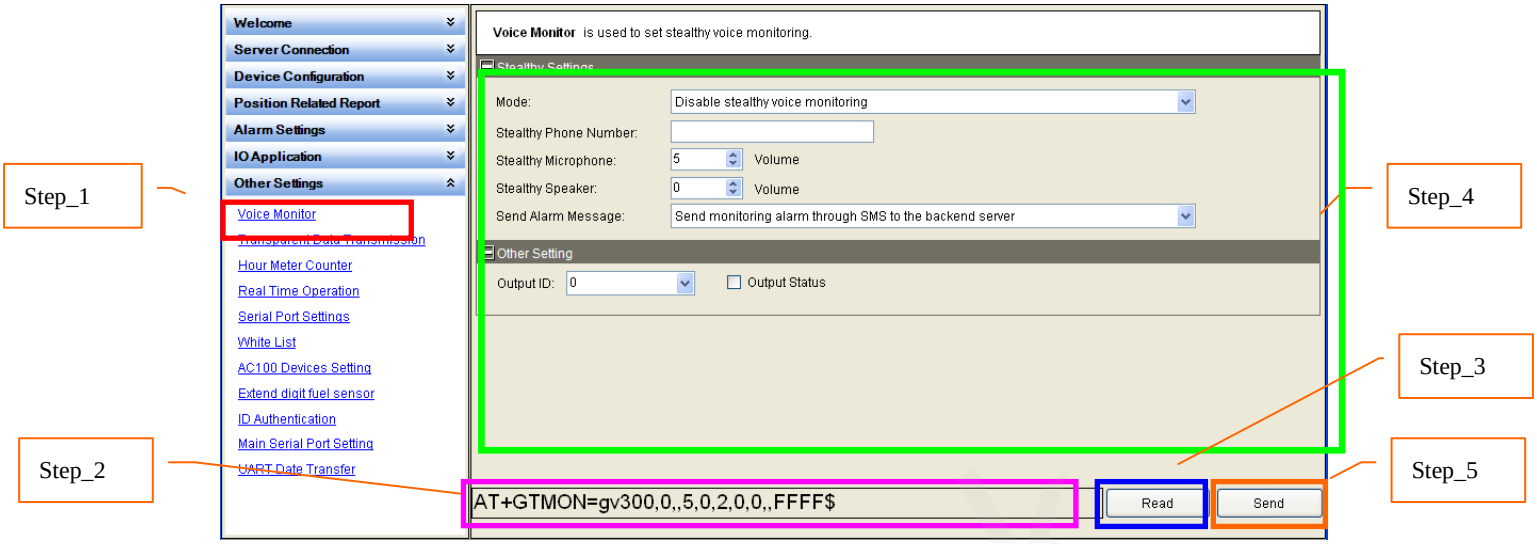
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Input/Output port parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTIOB to GV300.

3.2.29. Set the parameters of voice monitoring



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

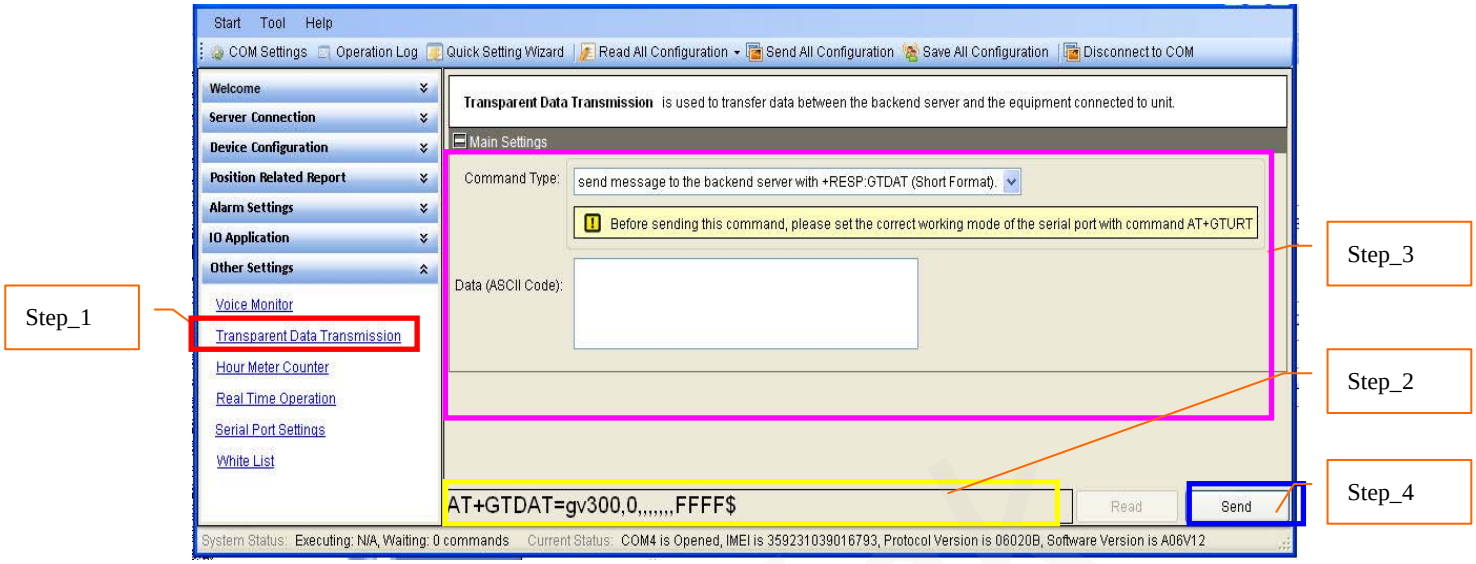
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the voice monitor parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTMON to GV300.

3.2.30. 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 GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: Set the transparent data transmission parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_4: Click the "*Send*" button; download the parameters of GTDAT to GV300.

3.2.31. Set the parameters of hour meter counter

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

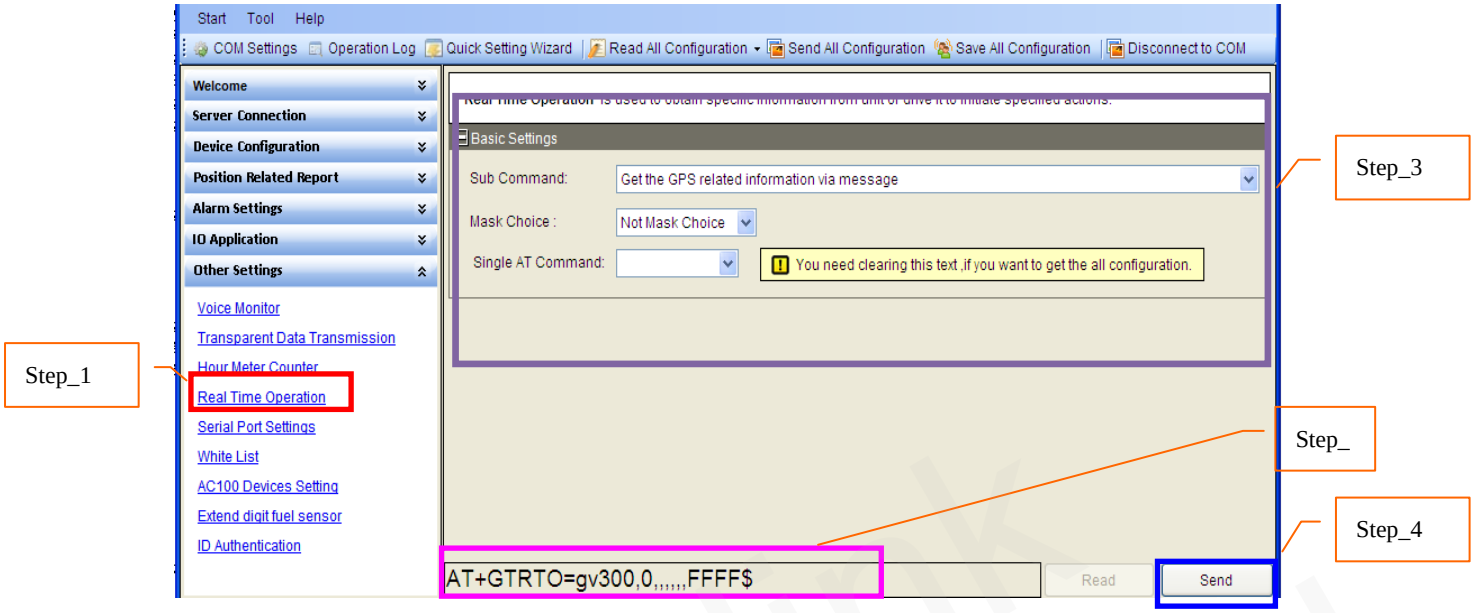
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the hour meter counter parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTHMC to GV300.

3.2.32. Set the parameters of real time operation



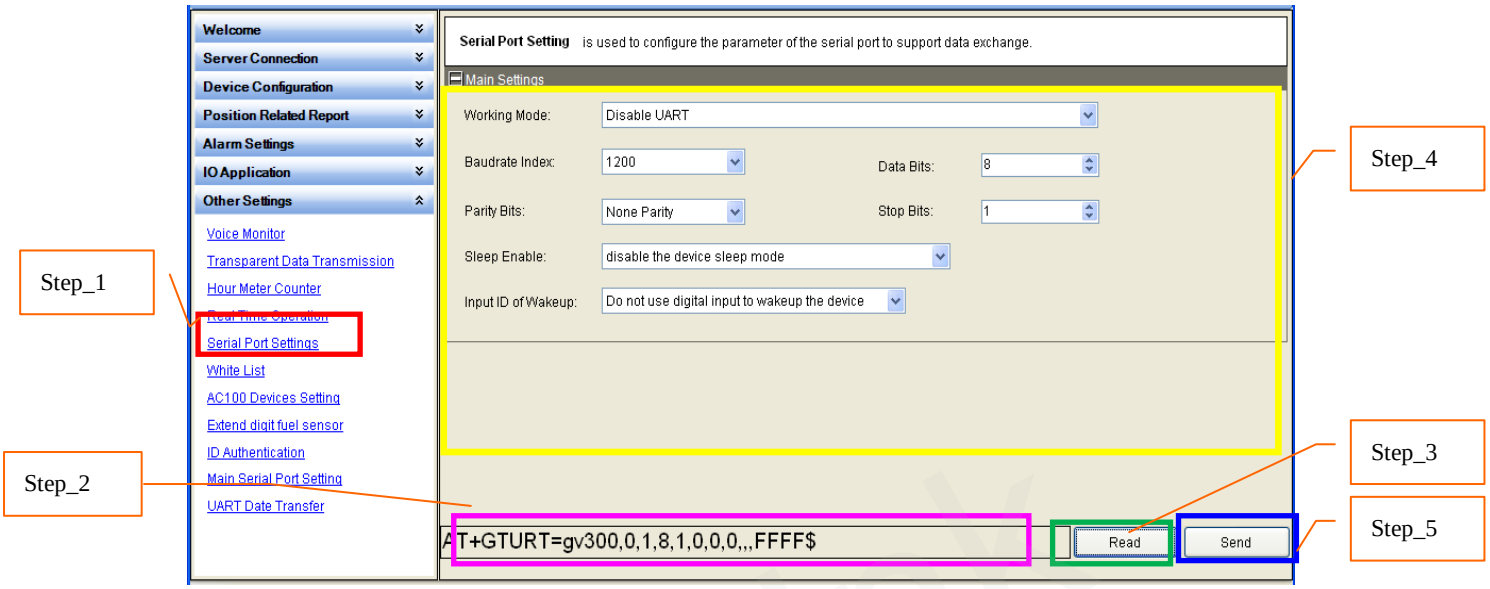
Step_1: Select "*Real Time Operation*", after that the parameters of GTRTO show in Command Operation Space.

Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: Set the real time operation parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_4: Click the "*Send*" button; download the parameters of GTRTO to GV300.

3.2.33. Set the parameters of serial port setting



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

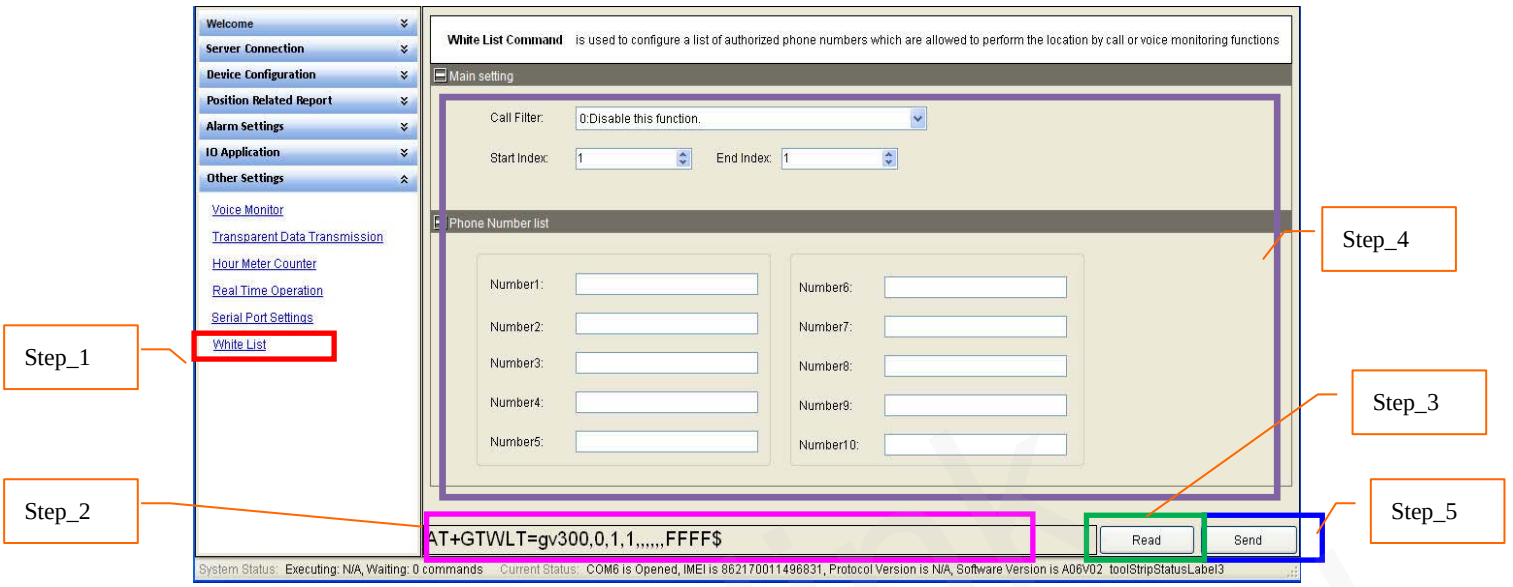
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the real time operation parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTURT to GV300.

3.2.34. Set the parameters of white list setting



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

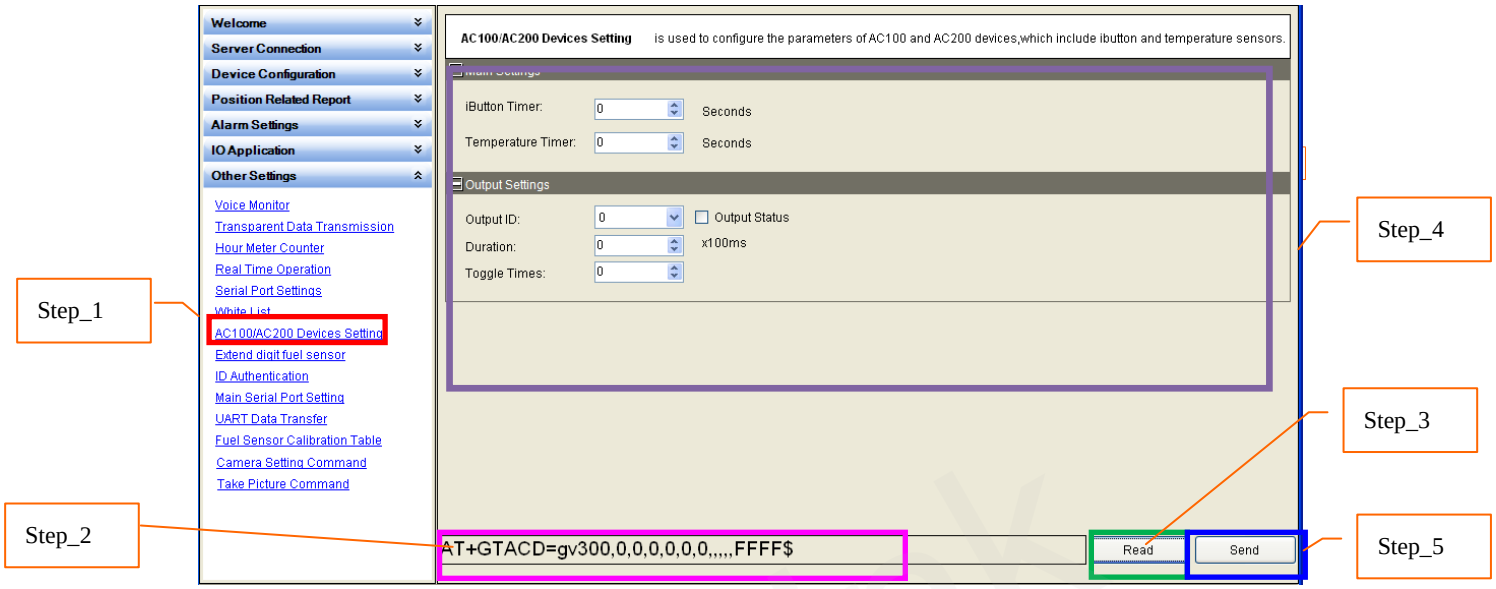
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the white list parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTWLT to GV300.

3.2.35. Set the parameters of AC100/AC200 devices



Step_1: Select "*AC100/AC200 Devices Setting*", after that the parameters of GTACD show in Command Operation Space.

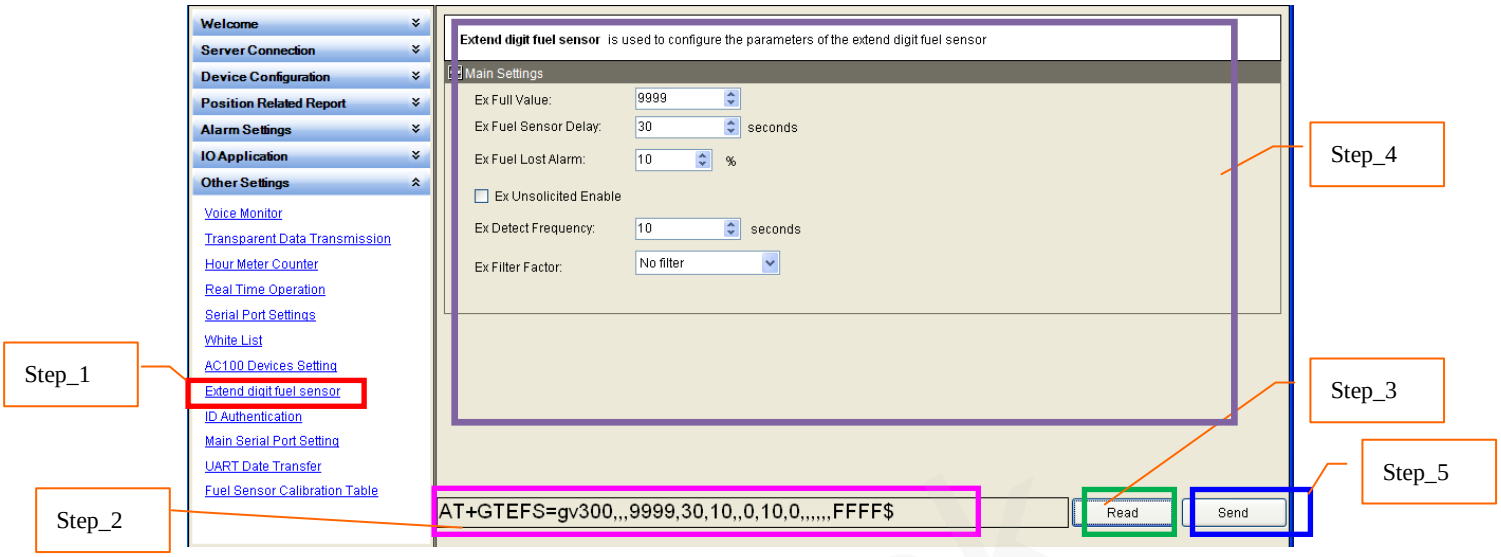
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the AC100/AC200 devices parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTACD to GV300.

3.2.36. Set the parameters of extend digit fuel sensor



Step_1: Select "*Extend digit fuel sensor*", after that the parameters of GTEFS show in Command Operation Space.

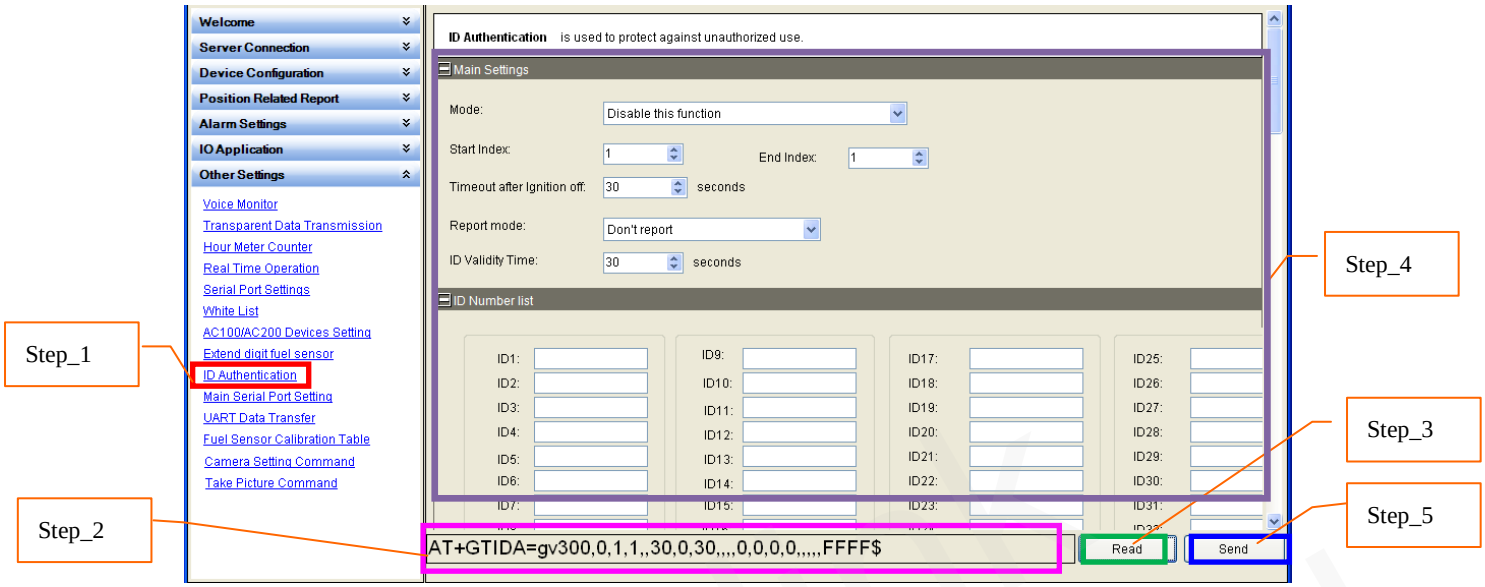
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the extend digit fuel sensor parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTEFS to GV300.

3.2.37. Set the parameters of ID authentication



Step_1: Select "*ID Authentication*", after that the parameters of GTIDA show in Command Operation Space.

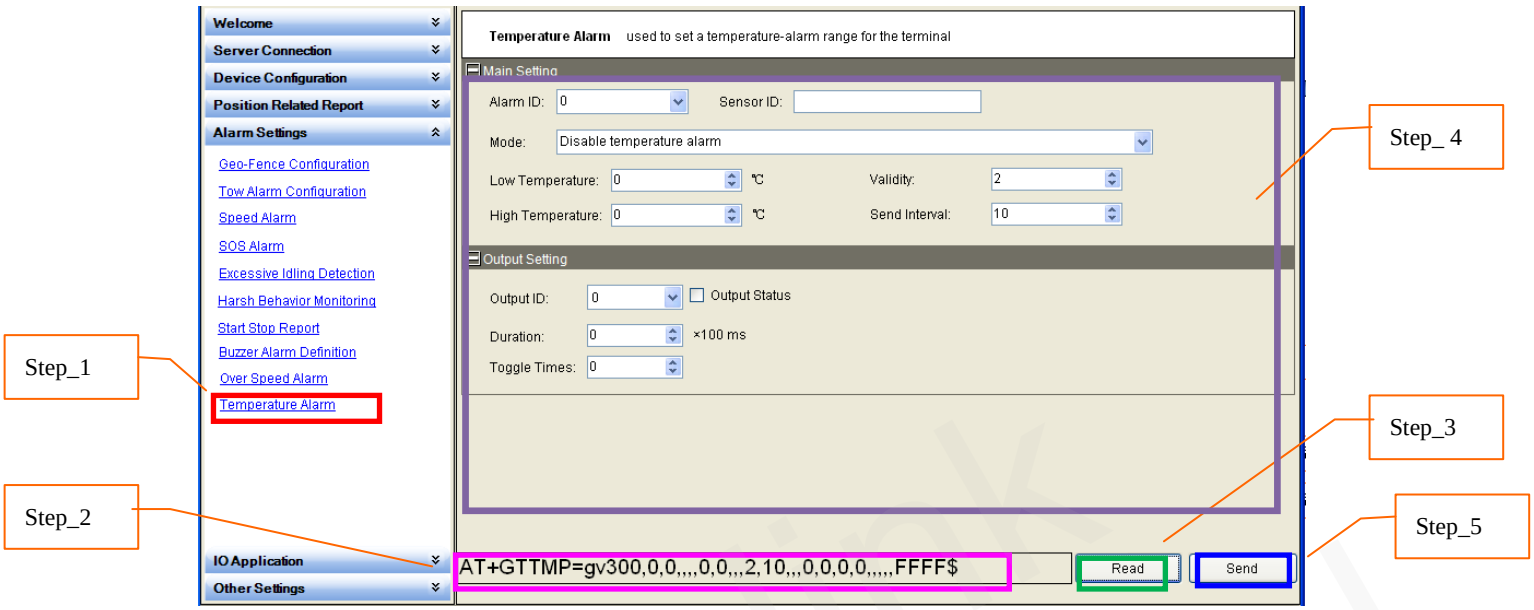
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the ID authentication parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTIDA to GV300.

3.2.38. Set the parameters of Temperature Alarm



Step_1: Select "*Temperature Alarm*", after that the parameters of GTTMP show in Command Operation Space.

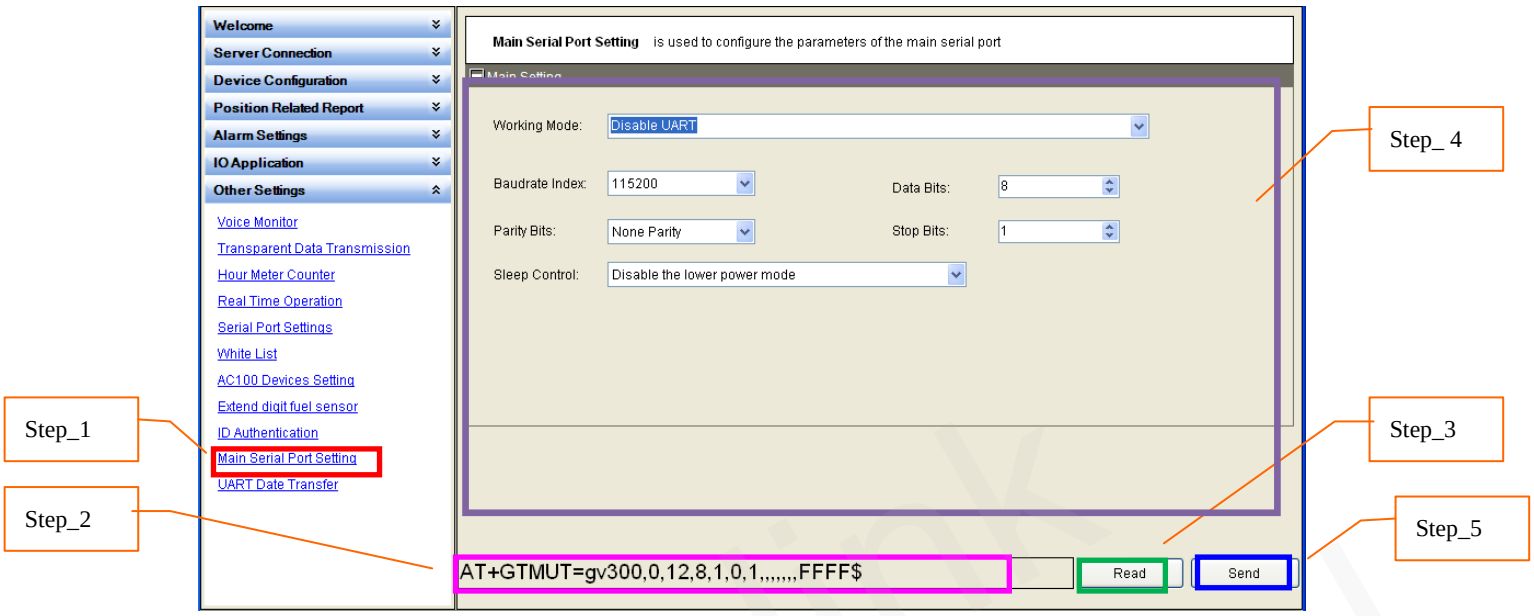
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Temperature Alarm parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTTMP to GV300.

3.2.39. Set the parameters of Main Serial Port Setting



Step_1: Select "*Main Serial Port Setting*", after that the parameters of GTMUT show in Command Operation Space.

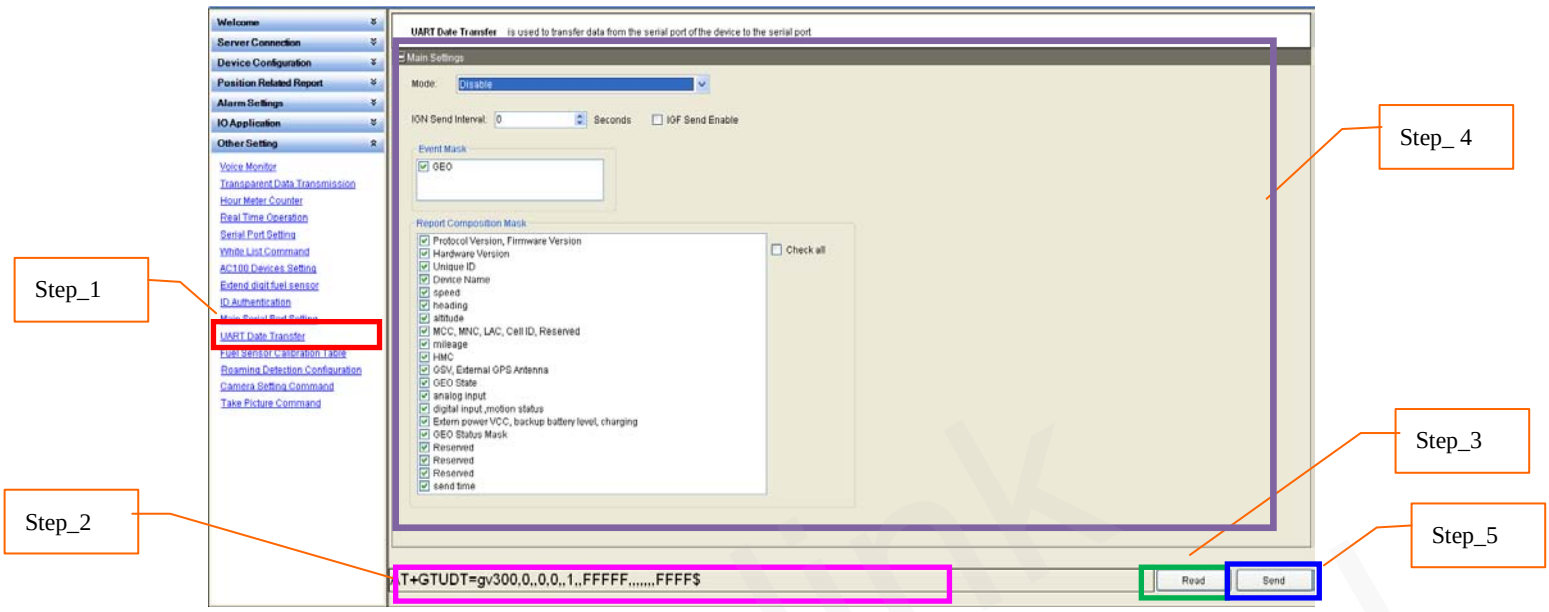
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Main Serial Port Setting parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTMUT to GV300.

3.2.40. Set the parameters of Uart Data Transfer



Step_1: Select "*Uart Data Transfer*", after that the parameters of GTUDT show in Command Operation Space.

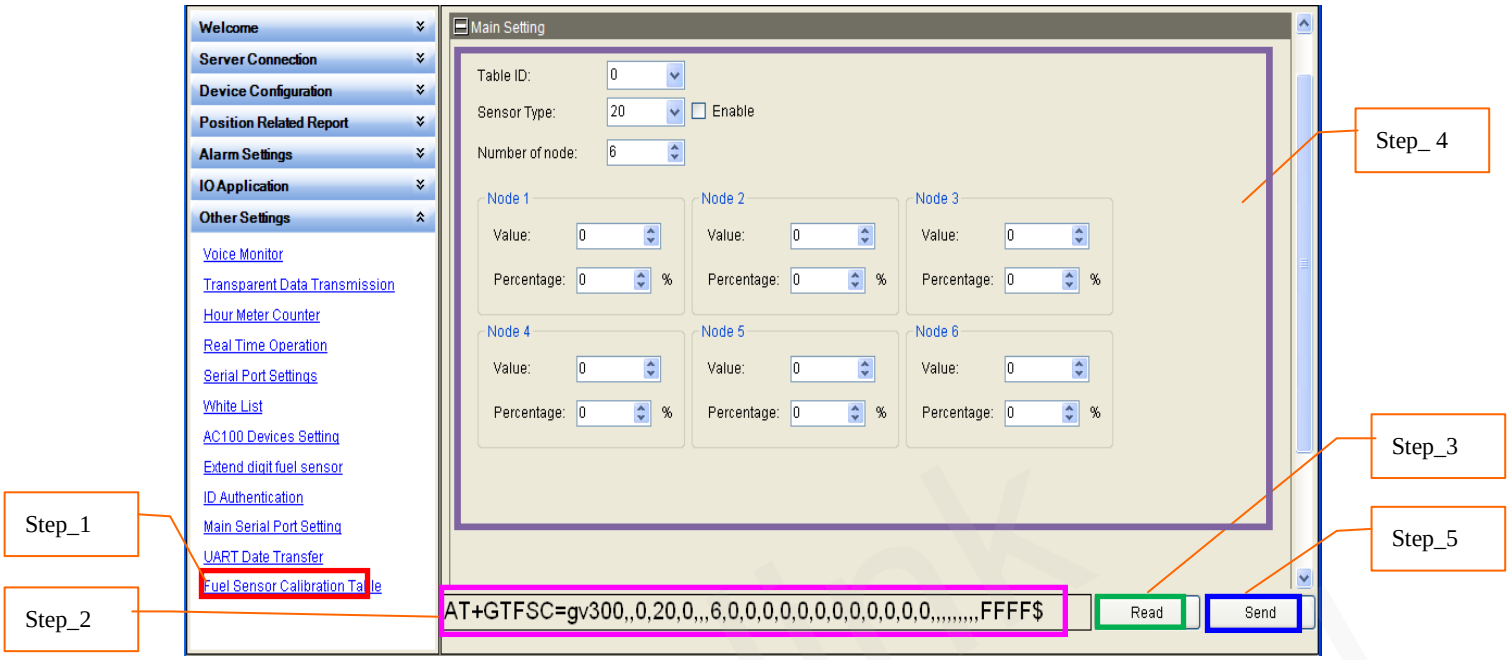
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Uart Data Transfer parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTUDT to GV300.

3.2.41. Set the parameters of Fuel Sensor Calibration Table



Step_1: Select "*Fuel Sensor Calibration Table*", after that the parameters of GTFSC show in Command Operation Space.

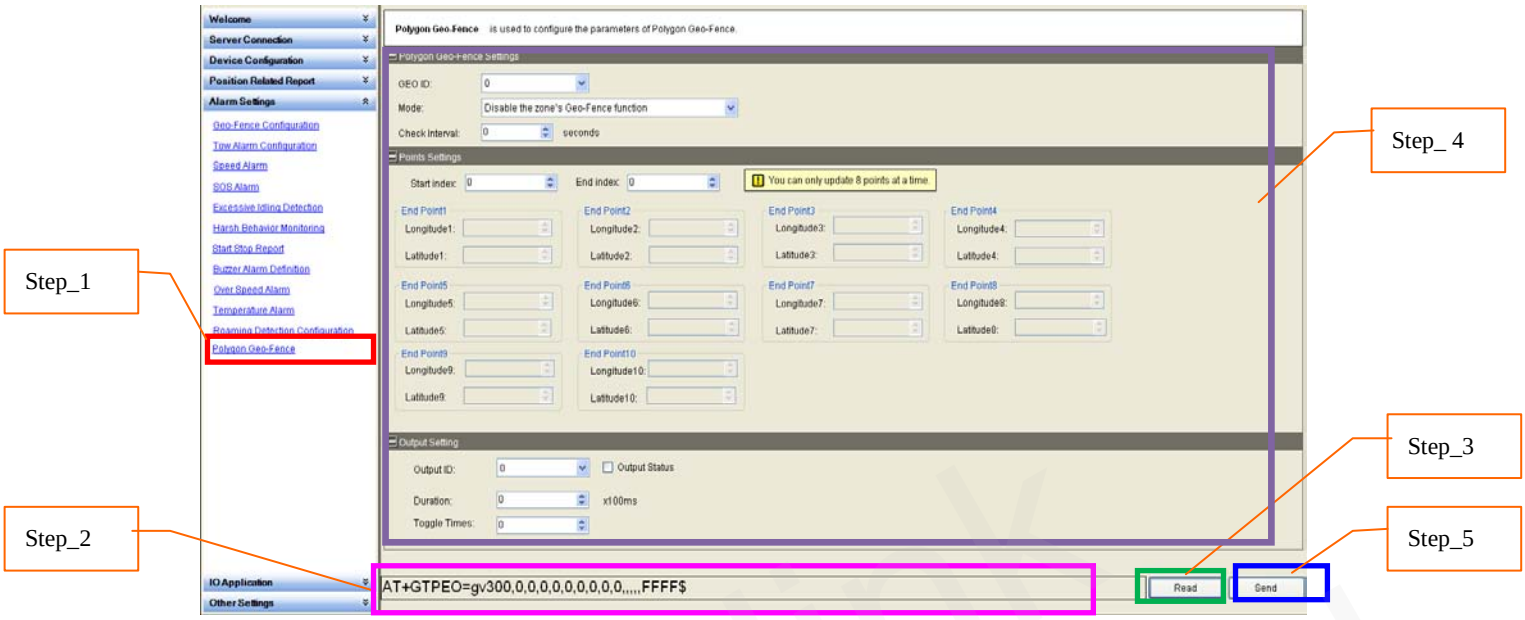
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Fuel Sensor Calibration Table parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTFSC to GV300.

3.2.42. Set the parameters of Polygon Geo-Fence



Step_1: Select "*Polygon Geo-Fence*", after that the parameters of GTPEO show in Command Operation Space.

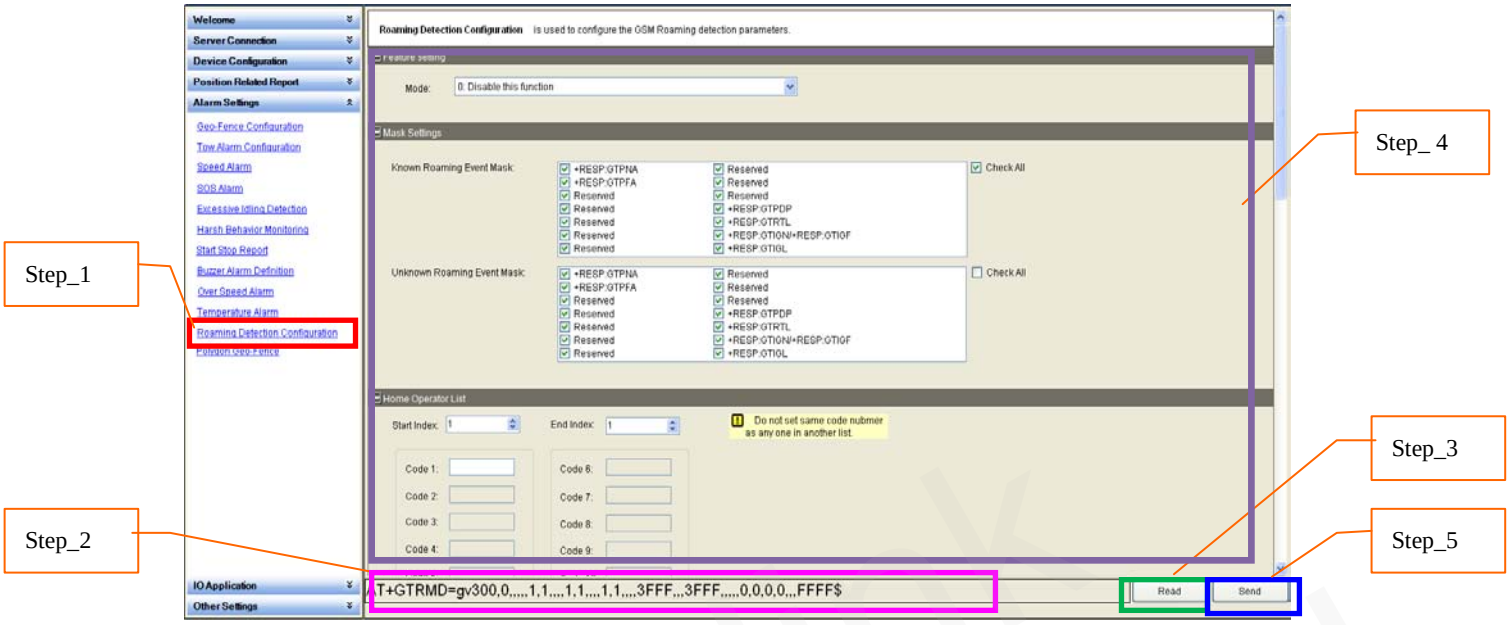
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Polygon Geo-Fence parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTPEO to GV300.

3.2.43. Set the parameters of Roaming Detection Configuration



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

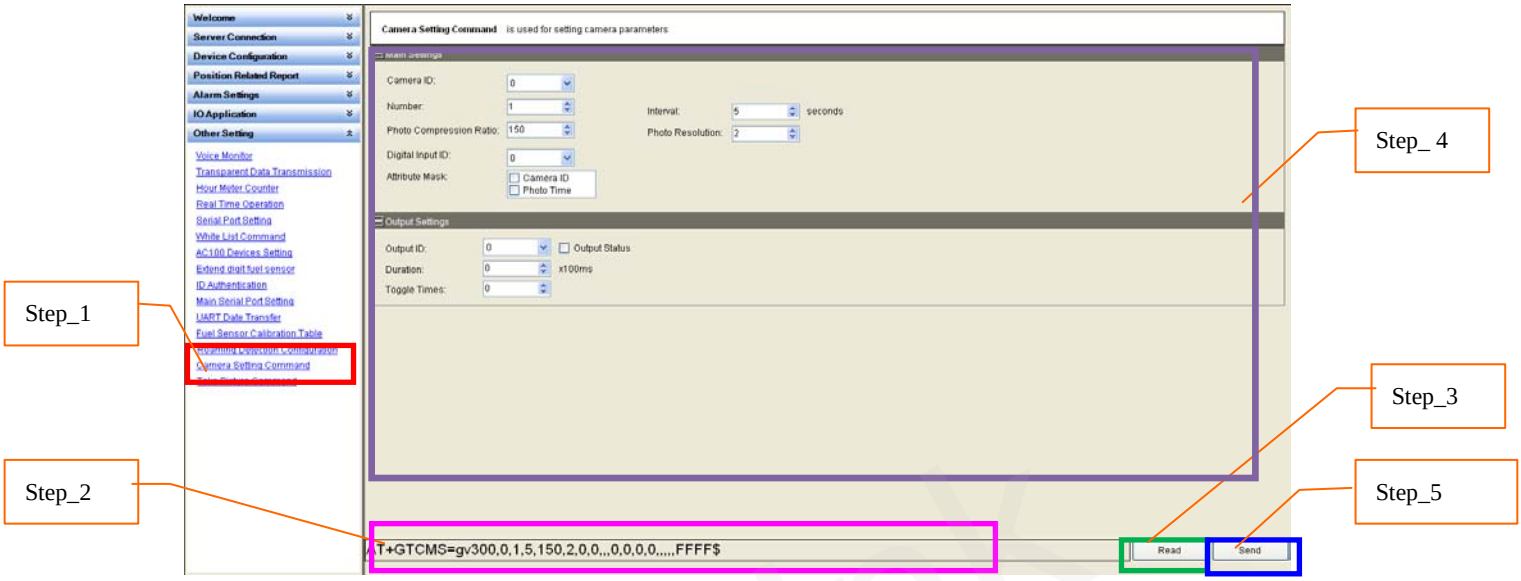
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Roaming Detection Configuration parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTRMD to GV300.

3.2.44. Set the parameters of Camera Setting Command



Step_1: Select "*Camera Setting Command*", after that the parameters of GTCMS show in Command Operation Space.

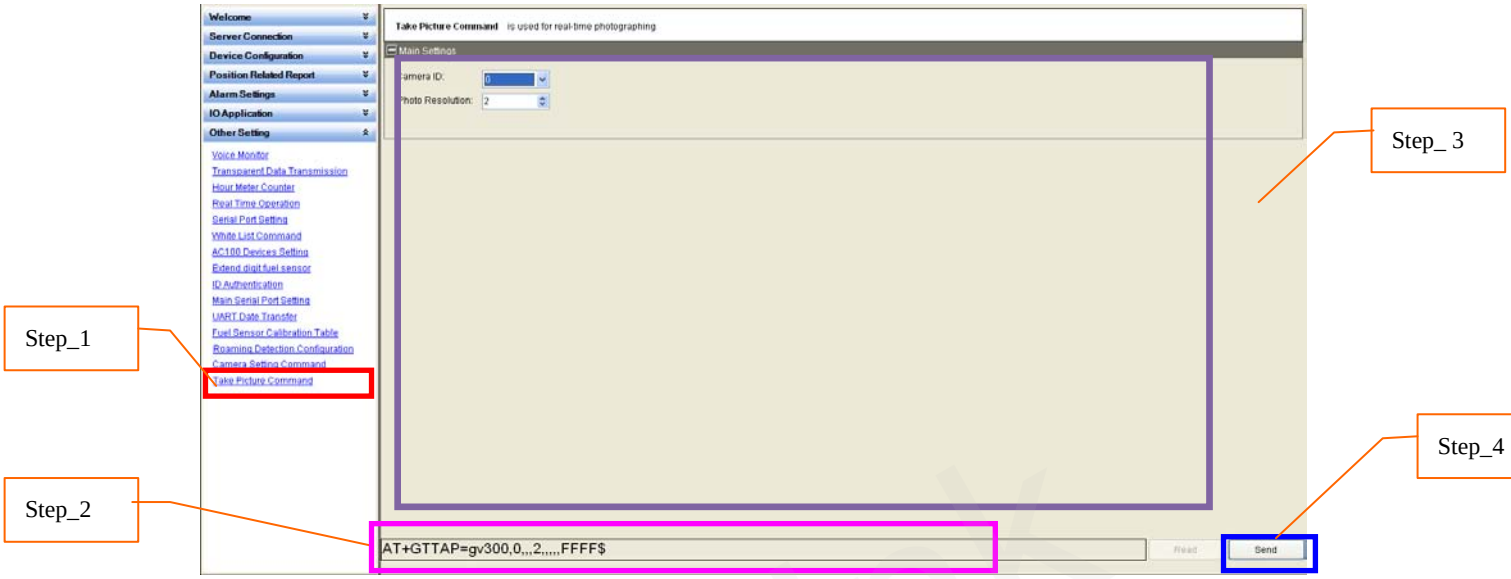
Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GV300 and edit based on them.

Step_4: Set the Camera Setting Command parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTCMS to GV300.

3.2.45. Set the parameters of Take Picture Command



Step_1: Select "*Take Picture Command*", after that the parameters of GTTAP show in Command Operation Space.

Step_2: The command message which shall be sent to GV300 will be generated based on input and displayed here. Please note this command message can also be sent to GV300 through SMS or GPRS.

Step_3: Set the Take Picture Command parameters. Please refer to "*GV300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_4: Click the "*Send*" button; download the parameters of GTTAP to GV300.

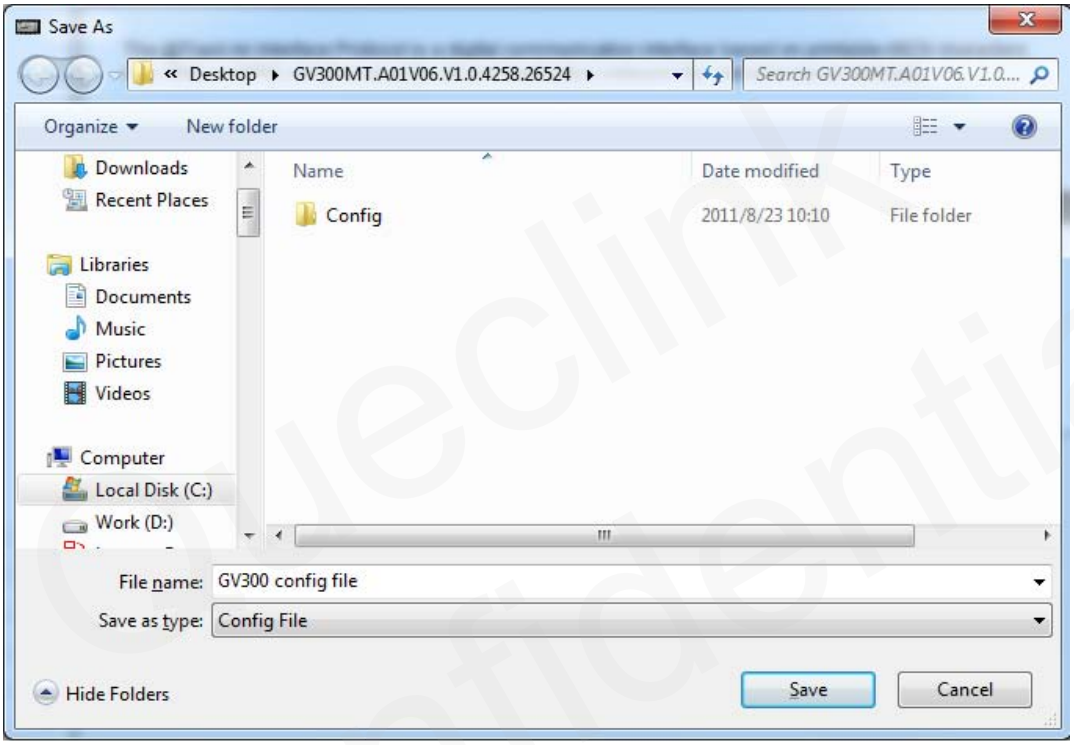
3.3. Read/Save All Configuration

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

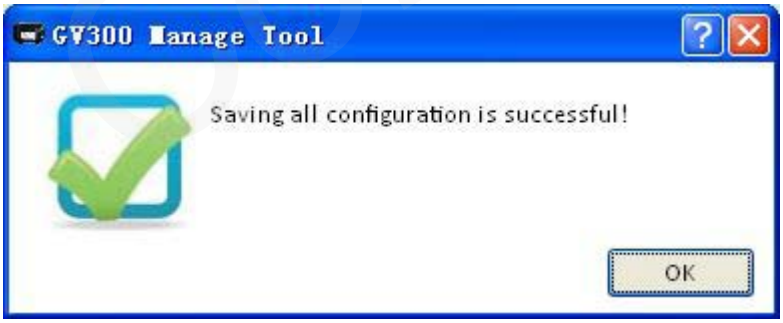
NOTE：Command GTDAT will not be reade when ”*Read From Device*”.

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.

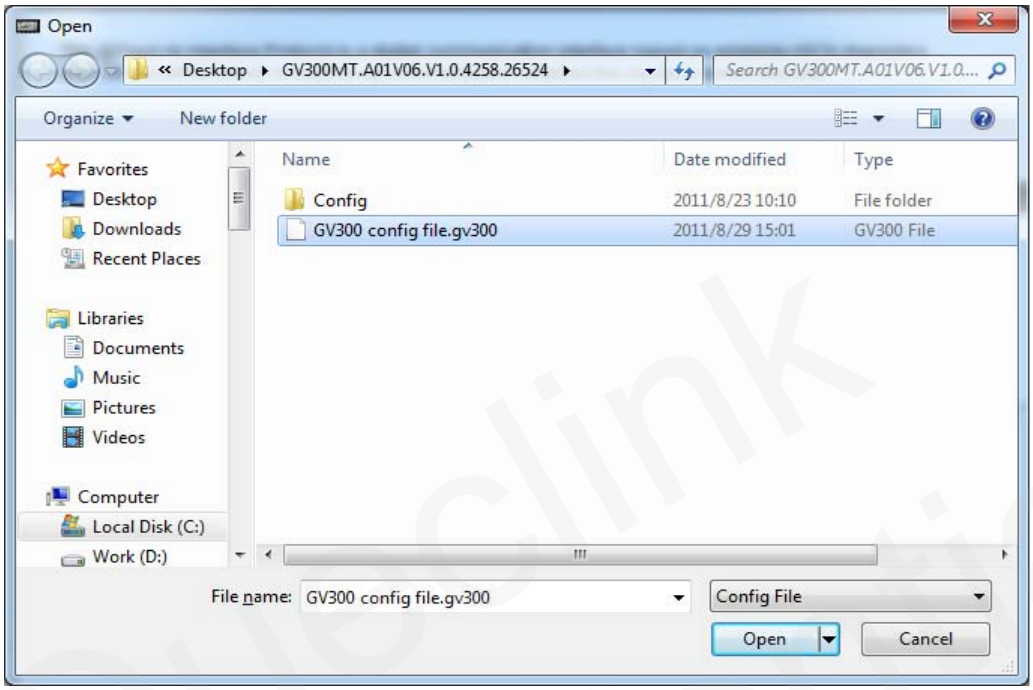


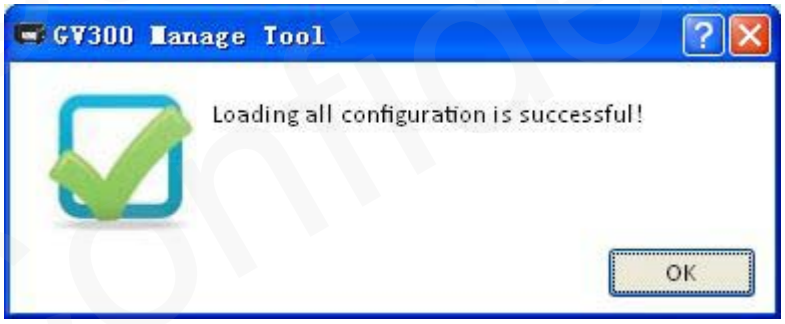
Step_4: Save successfully.



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 GTQSS, GTDAT, GTRTO will not be sent when "*Send All Configuration*".

Step_3: Manage Tool will send all commands to device.