GSM/GPRS/GPS Tracker **GL300**

Manage Tool User Guide

TRACGL300MT001

Revision: 1.00

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Contents

1. Revision history

Revision	Date	Author	Description of change
V1.00	2013-4-18	Rayna	Initial

2. GL300 Manage Tool Interface

GL300 manage tool is PC software which can be used to configure GL300 through Data_Cable_M. It is easy for the backend server developers to configure GL300 with manage tool, which has friendly user interface. The correct command messages sent to GL300 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 GL300 before selling. But it is strongly recommended to establish a backend server and implement the way to control GL300 by SMS or GPRS. Please refer to "*GL300 @Track Air Interface Protocol*" for detail.

Before using the manage tools please find "PL2303_Prolific_DriverInstaller_v1417.zip" in develop suit and install the driver for PL2303. After that a new COM port can be found in the PC system, and then please follow the steps as below:

1. Power on GL300.
2. Connect GL300 to PC with Data_Cable_M.
3. Run "**Queclink GL300_Manage_Tool_Vx.xx.exe**".

2.1. System Requirements

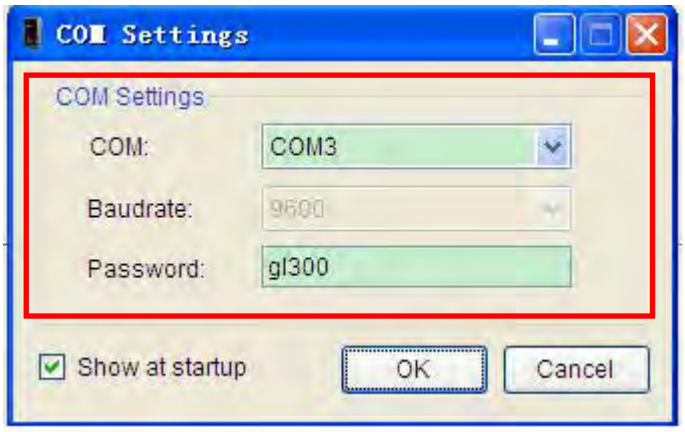
In order for this manage tool to run on your computer, you must use it in below operating system:

- 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



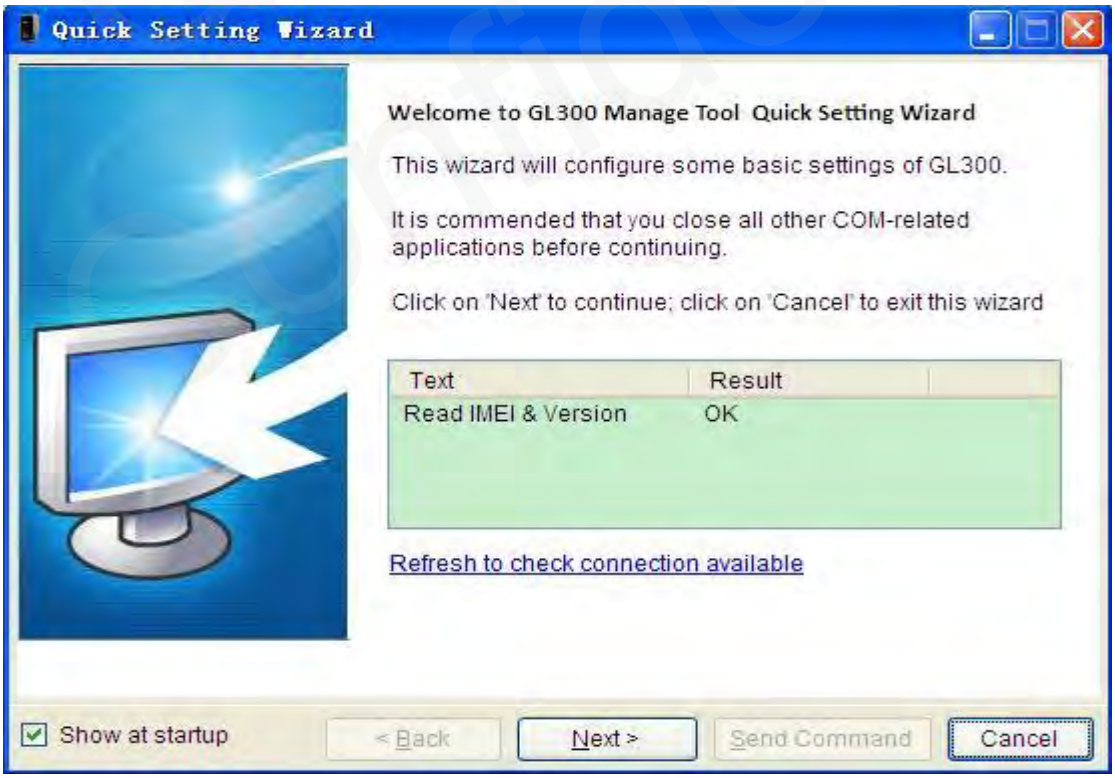
Select the COM port, input the password “gl300”, and the main window will display.

2.3. Quick Setting Wizard

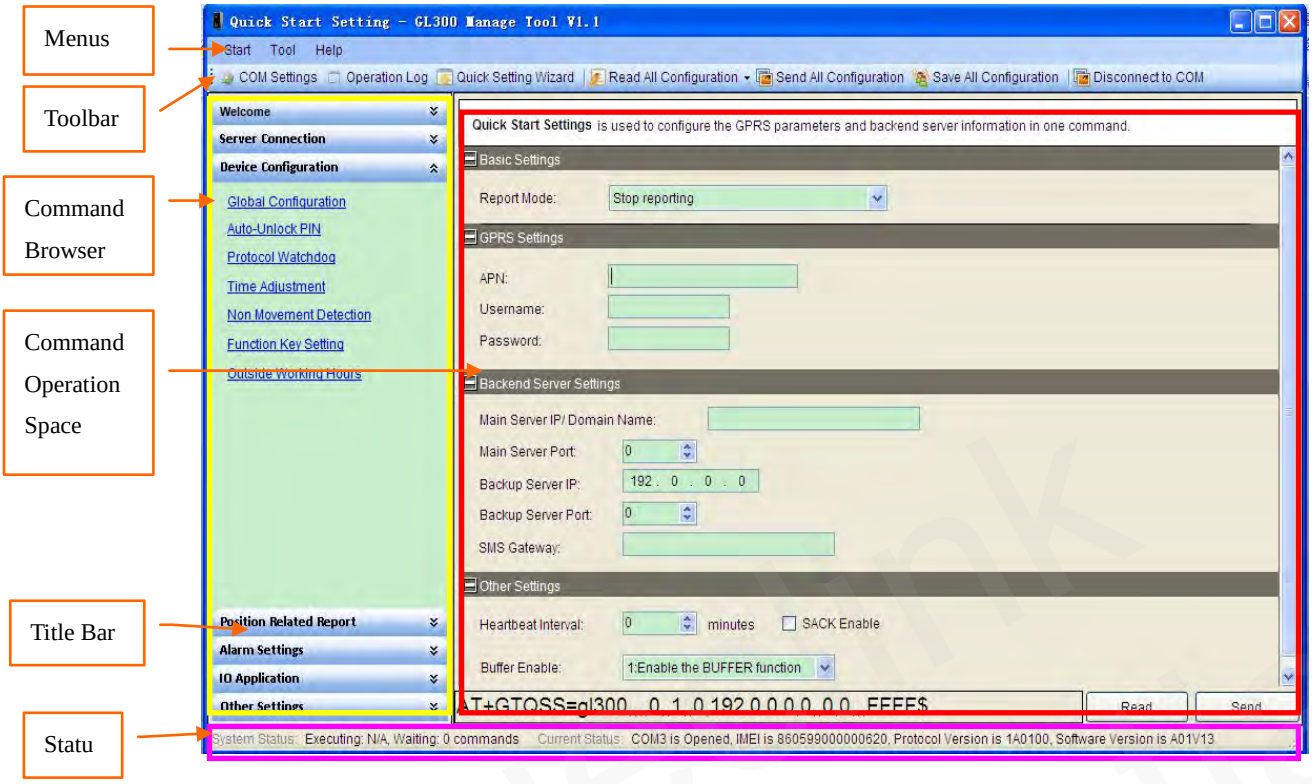
The quick setting wizard gives a basic setting for device. If you want use more functions of GL300, please change to enter professional setting mode.

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

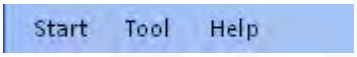


2.4.1 Title Bar

Title Bar indicates current operational command title.

2.4.2 Menus

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



2.4.2.1 Start Menu

Start menu include “*COM Settings*”.

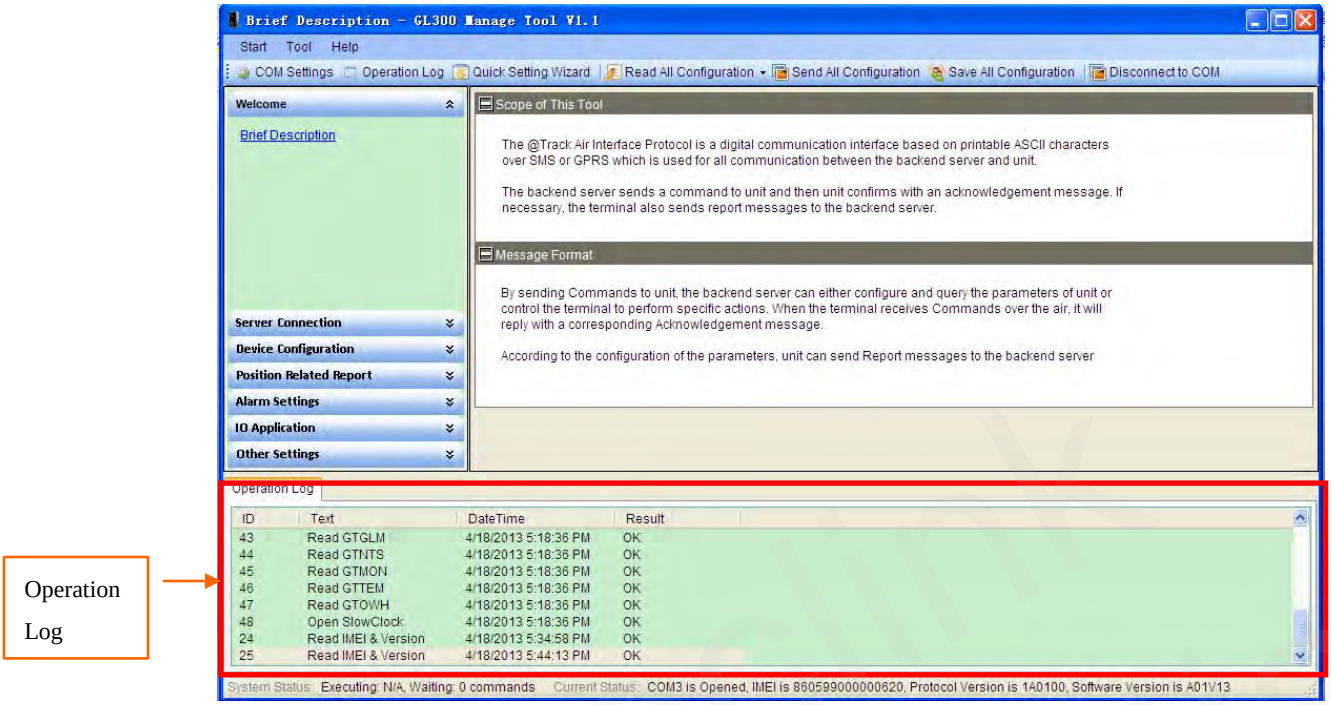
[COM Setting]: It is used to set the COM information and password Setting details, please refer to chapter 2.2

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.

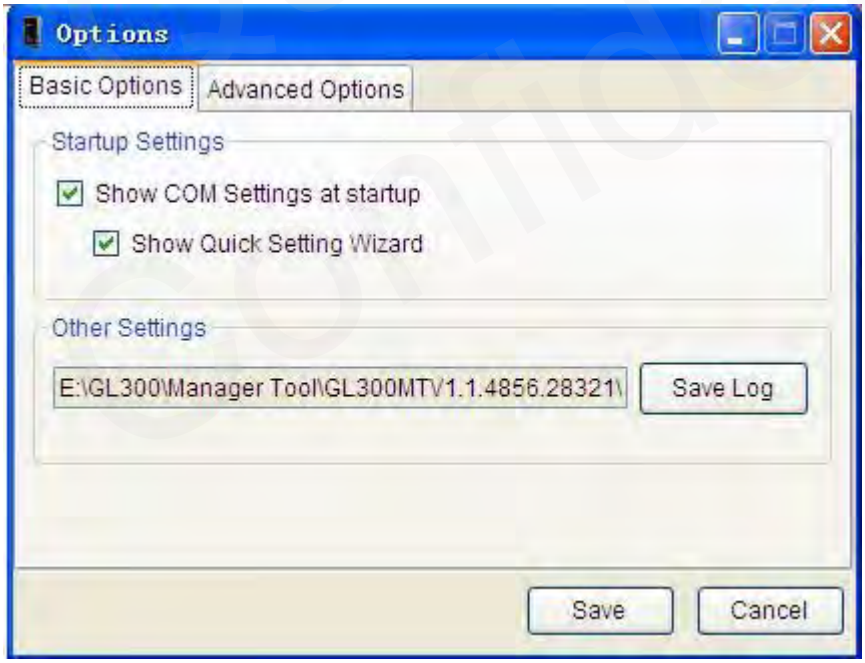
[Operation Log]: It is used to display/hidden the operation log.



Operation Log

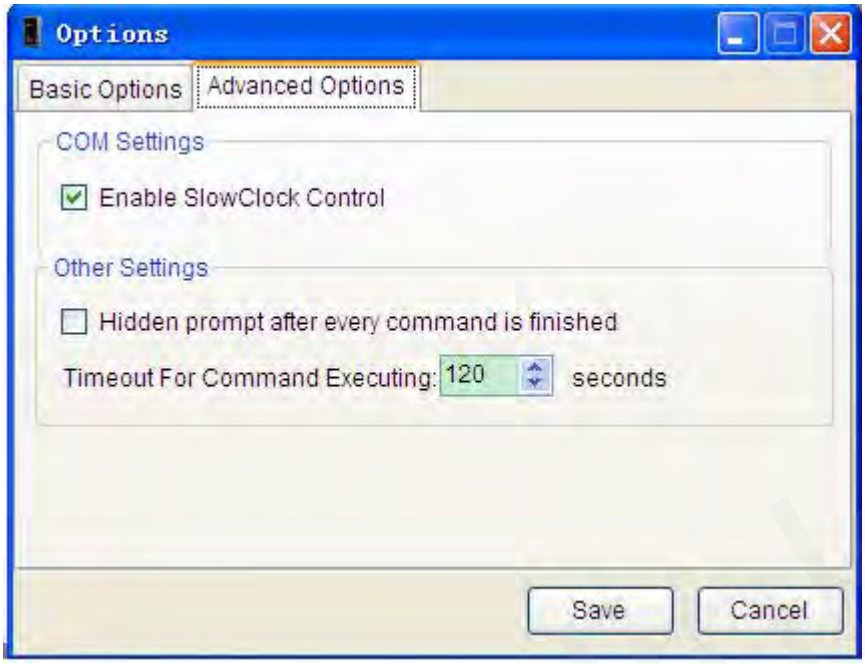
[Options]: It is used to set the basic setting of manage tool.

"*Basic Options*" include startup setting options and log save option.



"*Advanced Options*" include COM settings and other settings.

COM Settings is used to set enable/disable slowclock control. It is recommended using default setting for these settings.



2.4.2.3 Help Menu

Help menu include "About" and "Diagnosis".

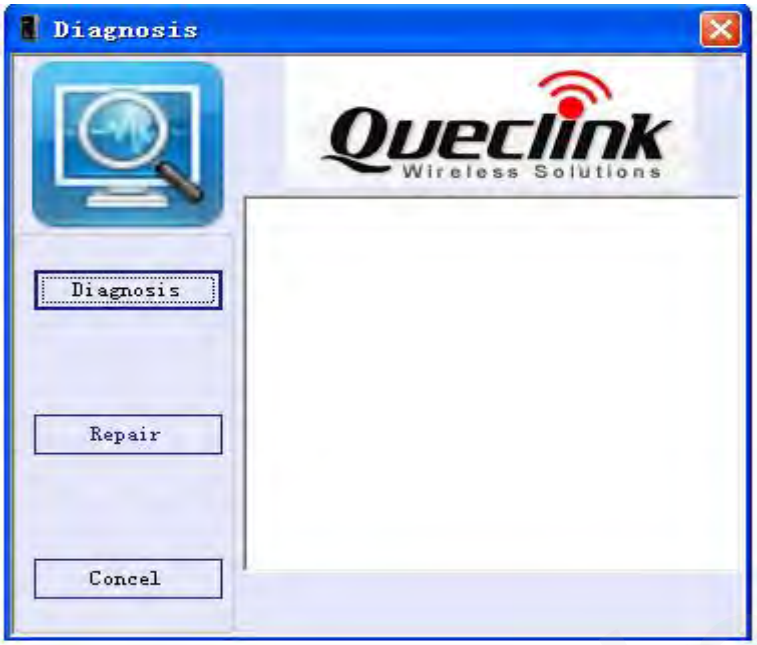
[About]: Select "*About*". Then the following pop up window will display.

"*Tool Version*" indicates the version of this manage tool.

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

"*Unit 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.

[Diagnosis]: Select *"Diagnosis"*. Then the following pop up window will display.



This function is only for technology diagnosis when the device report data abnormally, please ignore it when it works normally.

2.4.3 Toolbar

It include "*COM Setting*", "*Operation Log*", "*Quick Setting Wizard*", "*Real All Configuration*", "*Execute 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.

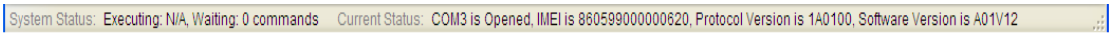
"*Read From Device*": It is used to read all configuration from device which connects to PC.
"*Load Configuration From File*": It is used to load configuration file to the manage tool.

[Send All Configuration]: It is used to execute all configurations in Command Operation Space except GTRTO.

[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

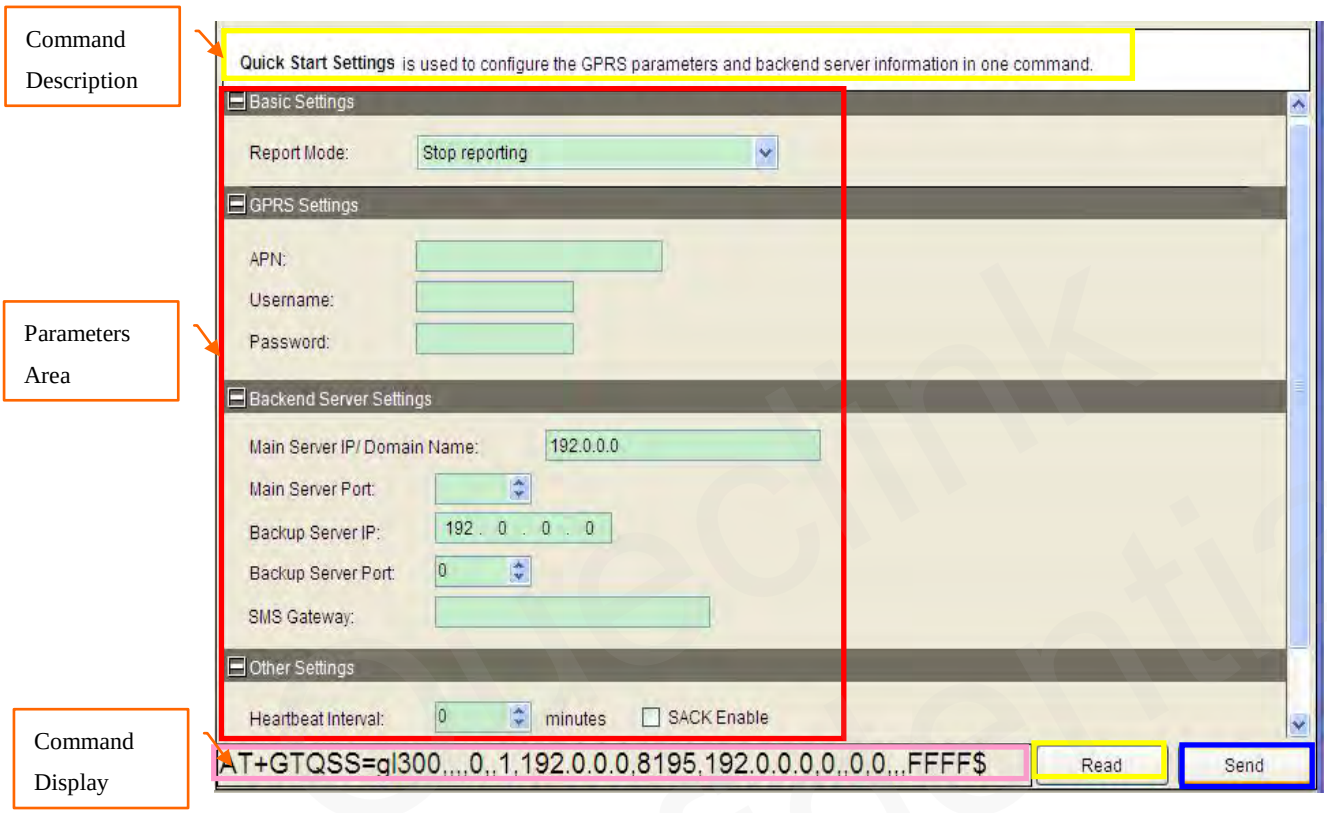
2.4.5.1 Command Brower

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
	Time Adjustment	GTTMA
	Non Movement Detection	GTNMD
	Function Key Setting	GTFKS
	Outside Working Hours	GTOWH
Position Related Report	Fixed Position Report	GTFRI
Alarm Setting	Geo-Fence Configuration	GTGEO
	Speed Alarm	GTSPD
IO Application	Digital Input Settings	GTDIS
Other Settings	Real Time Operation	GTRTO
	Transparent Data Transmission	GTDTA
	White Call List Configuration	GTWLT

	Google Link SMS Configuration	GTGLM
	Network Select	GTNTS
	Voice Monitor	GTMON
	Temperature Alarm	GTTEM

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.

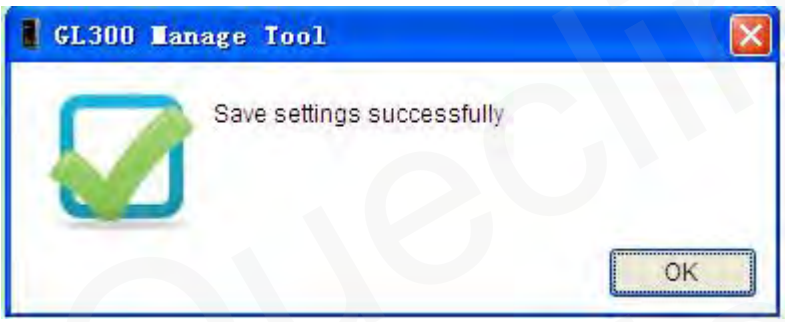
[Send]: Click this button to send this command to device.

2.5. Operation Result Interface

2.5.1 Operation Successfully Interface

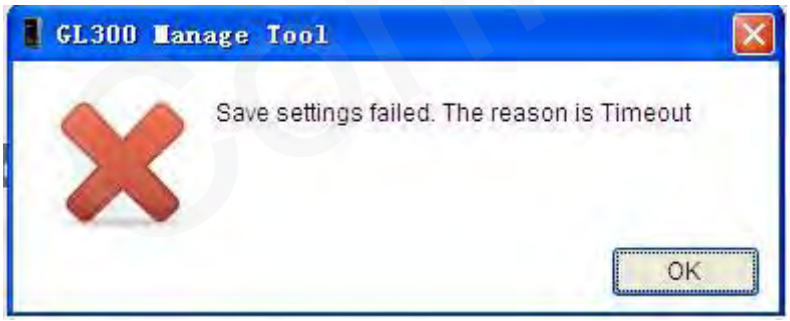
Command read OK.

Command send OK.



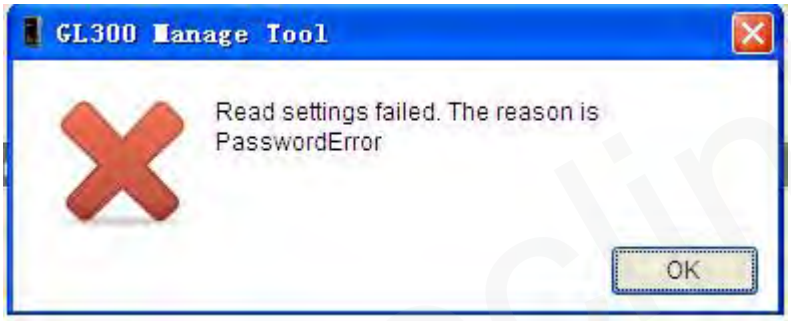
2.5.2 Operation Failed Interface

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



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

Please change to correct device password if Password Error.



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

3. Operation Instruction

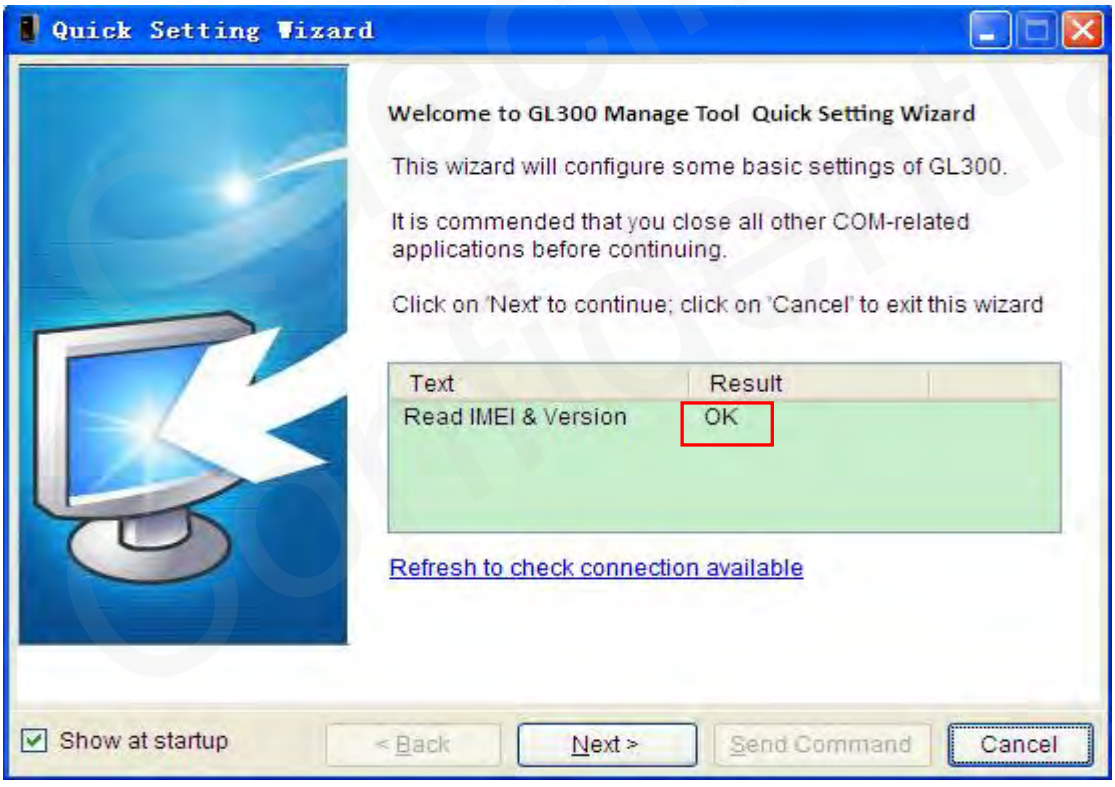
3.1. Device Configuration with Quick Setting Wizard

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "*GL300 @Track Air Interface Protocol*" for detail.

The quick setting wizard gives a basic setting for device. If you want use more functions of GL300, 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.

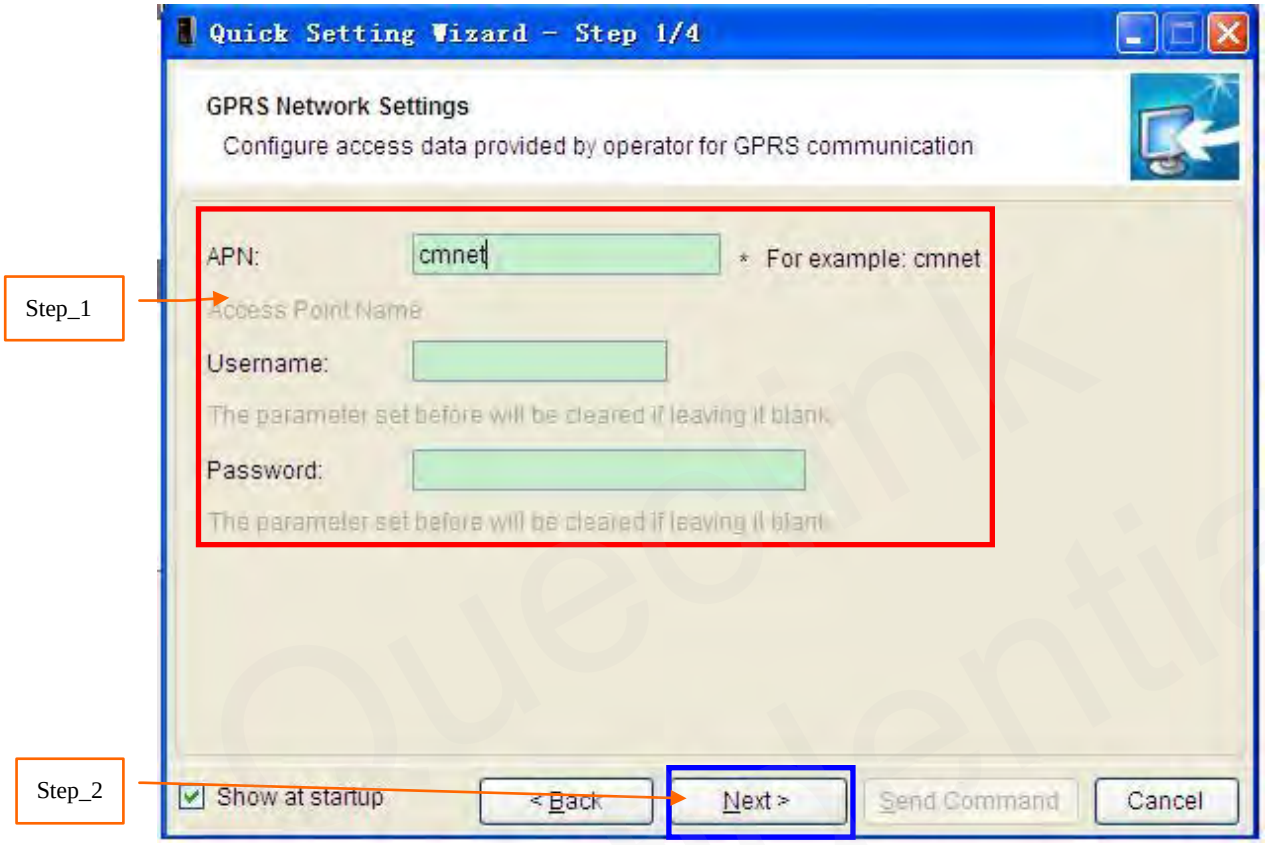


Welcome to Quick Setting Wizard

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 "*GL300 @Track Air Interface Protocol*" for detail.

Step_2: Then click *"Next"*.

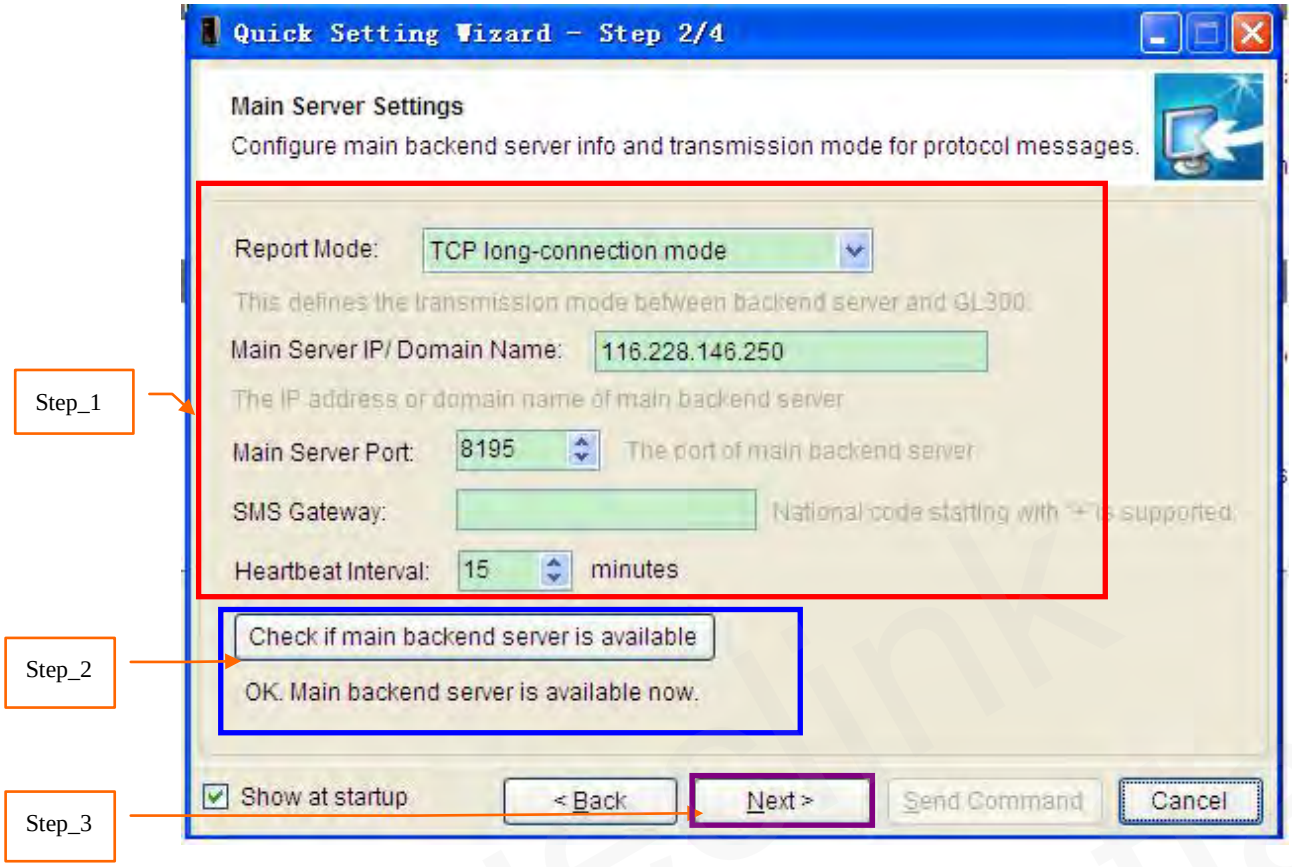


3.1.3 Main Server Setting

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 "*GL300 @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.

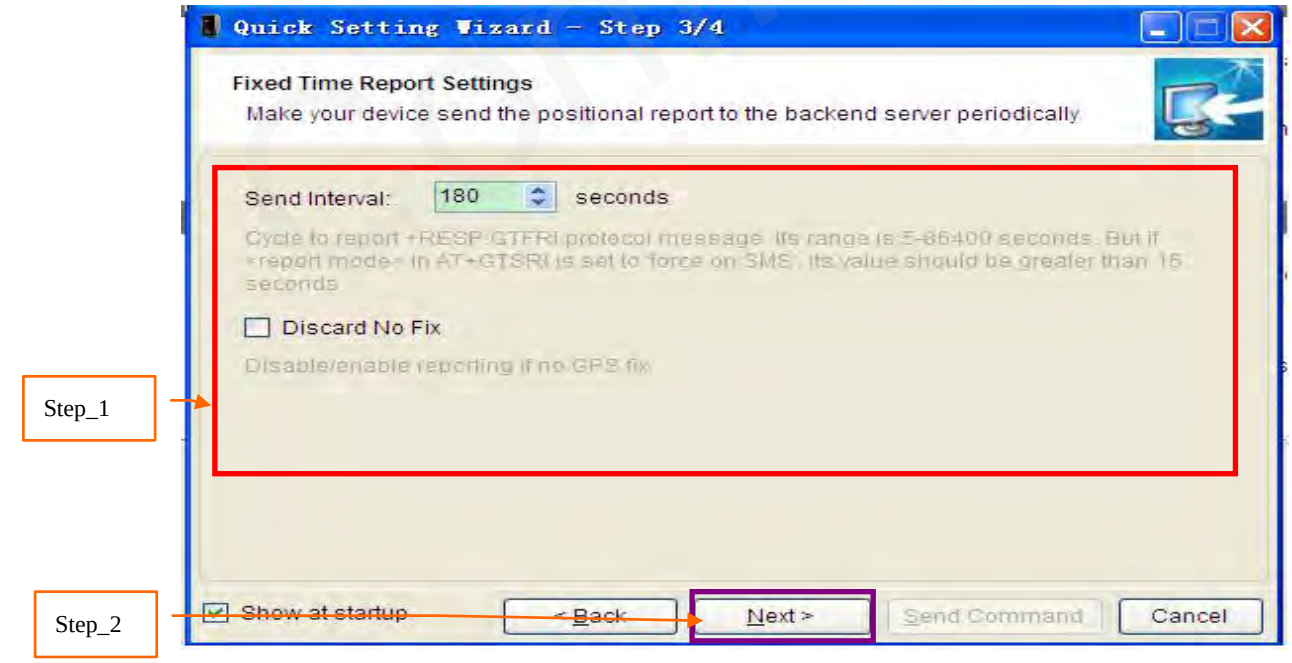
Step_3: Click "*Next*".



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 "*GL300 @Trak Air Interface Protocol*" for detail.

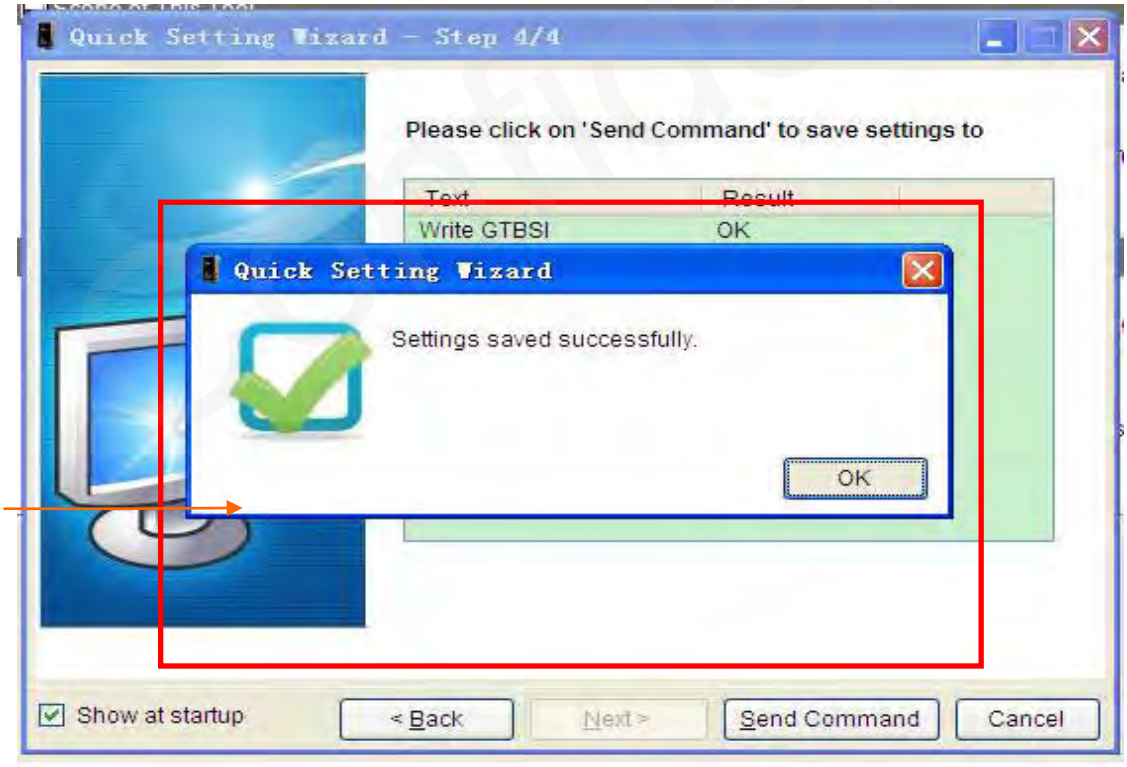
Step_2: Click "*Next*".



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.

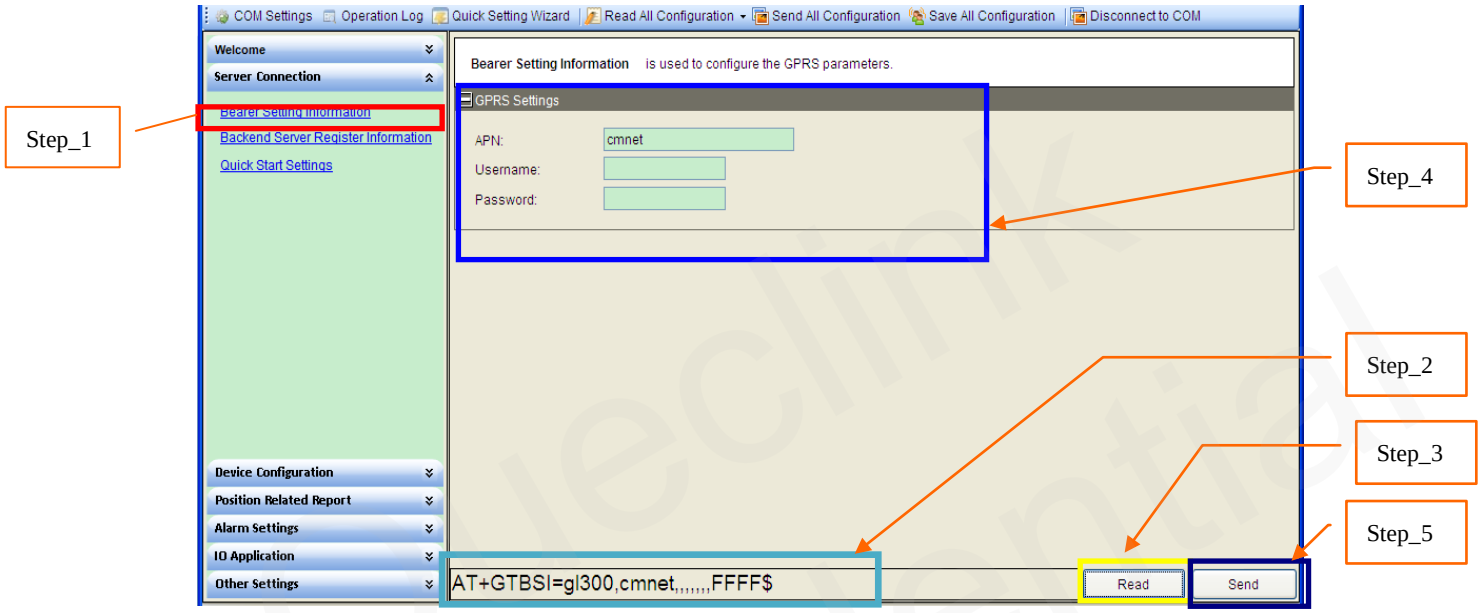


3.2. Device Configuration in Professional Setting Mode

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "*GL300 @Track Air Interface Protocol*" for detail.

Following is a general procedure to configure GL300 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.

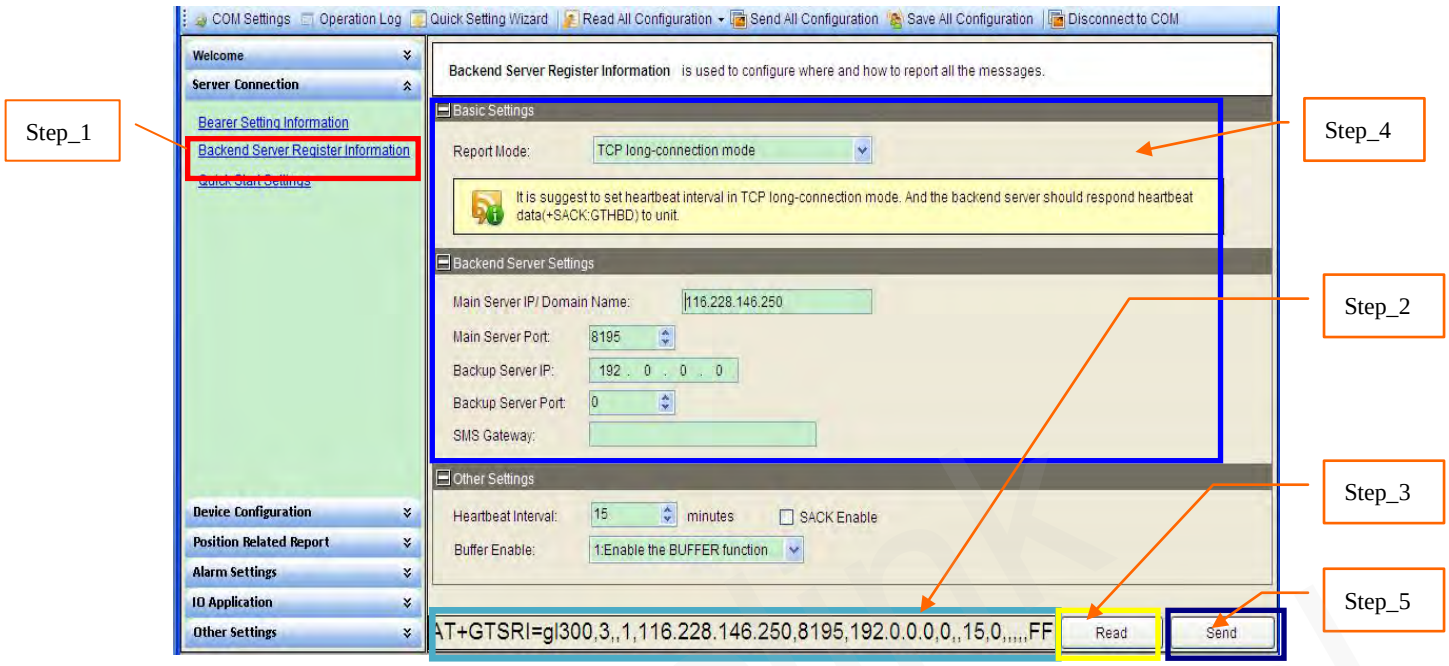
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set APN parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTBSI to GL300.

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.

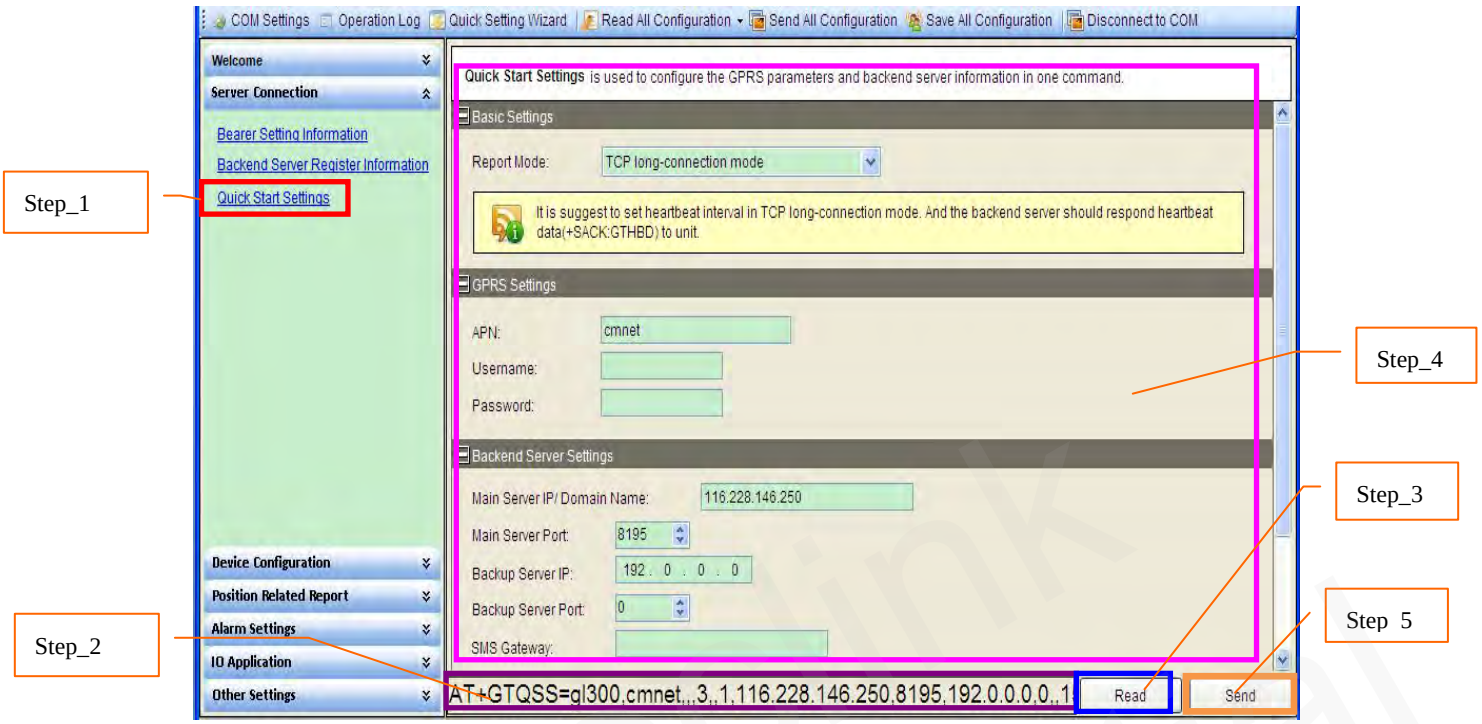
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set backend server information parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSRI to GL300.

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 GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set the GPRS and backend server information parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTQSS to GL300.

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.

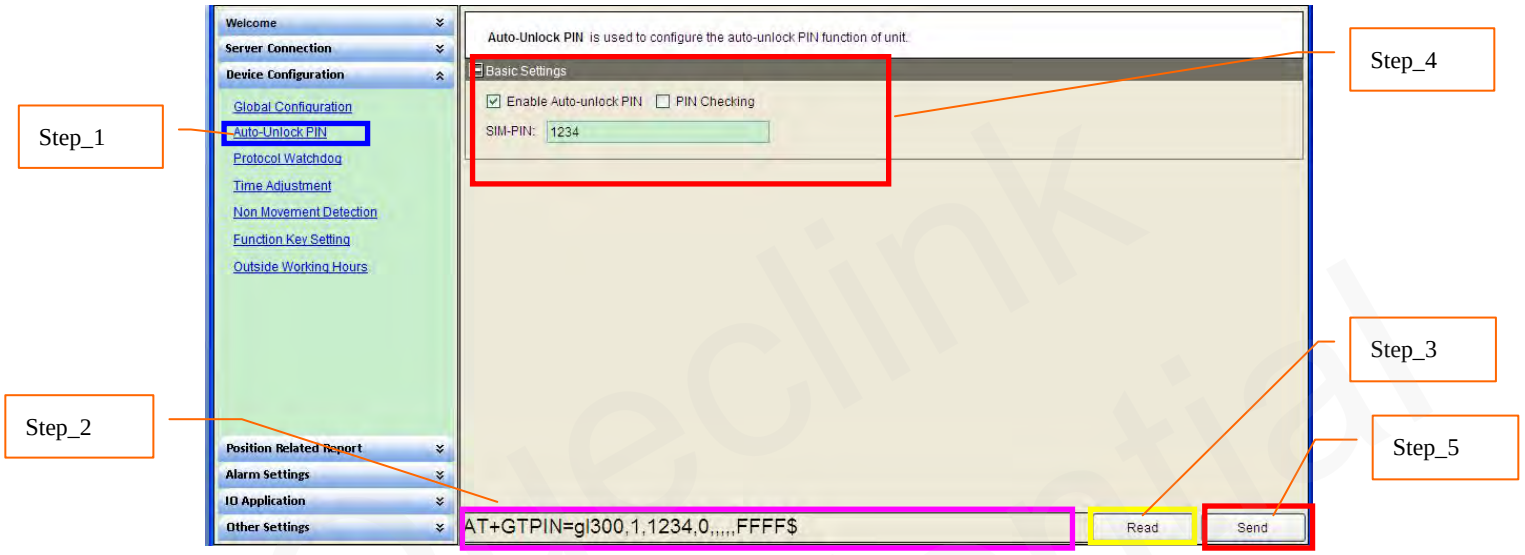
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set the global parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTCFG to GL300.

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.

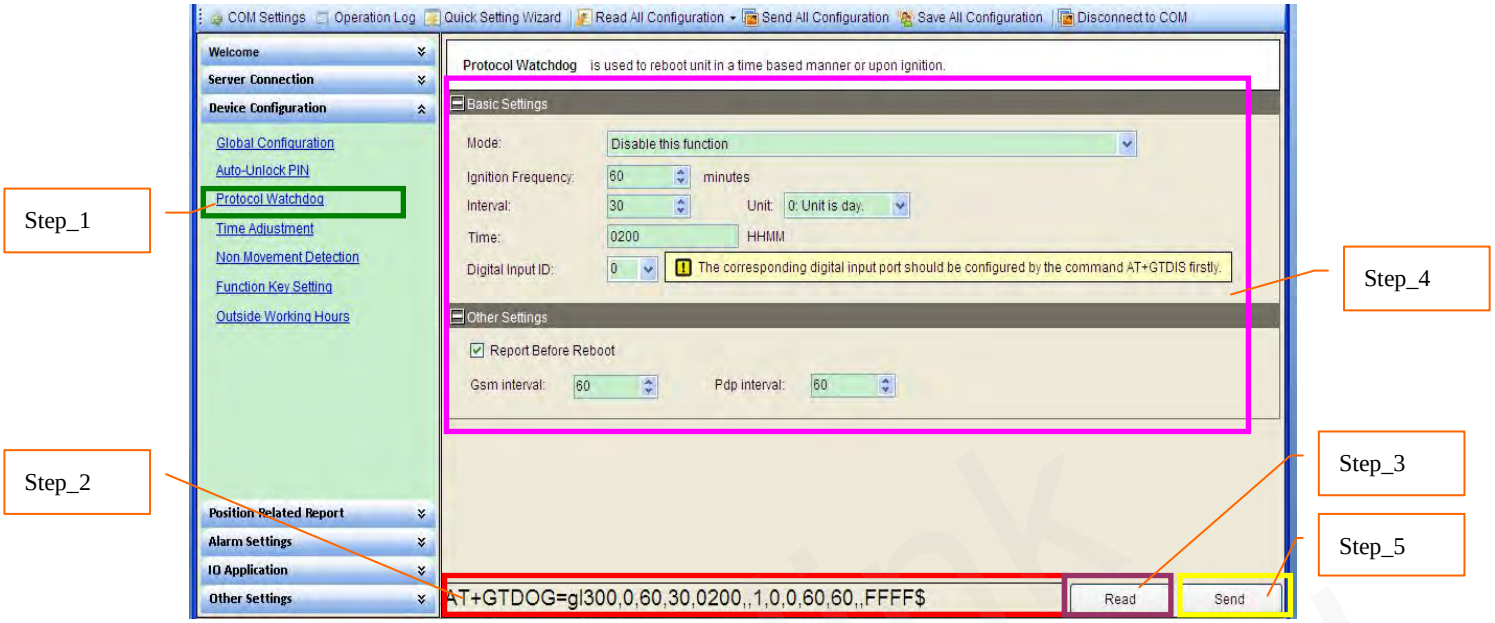
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set the auto-unlock PIN parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTPIN to GL300.

3.2.6 Set the parameters of Protocol Watchdog



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

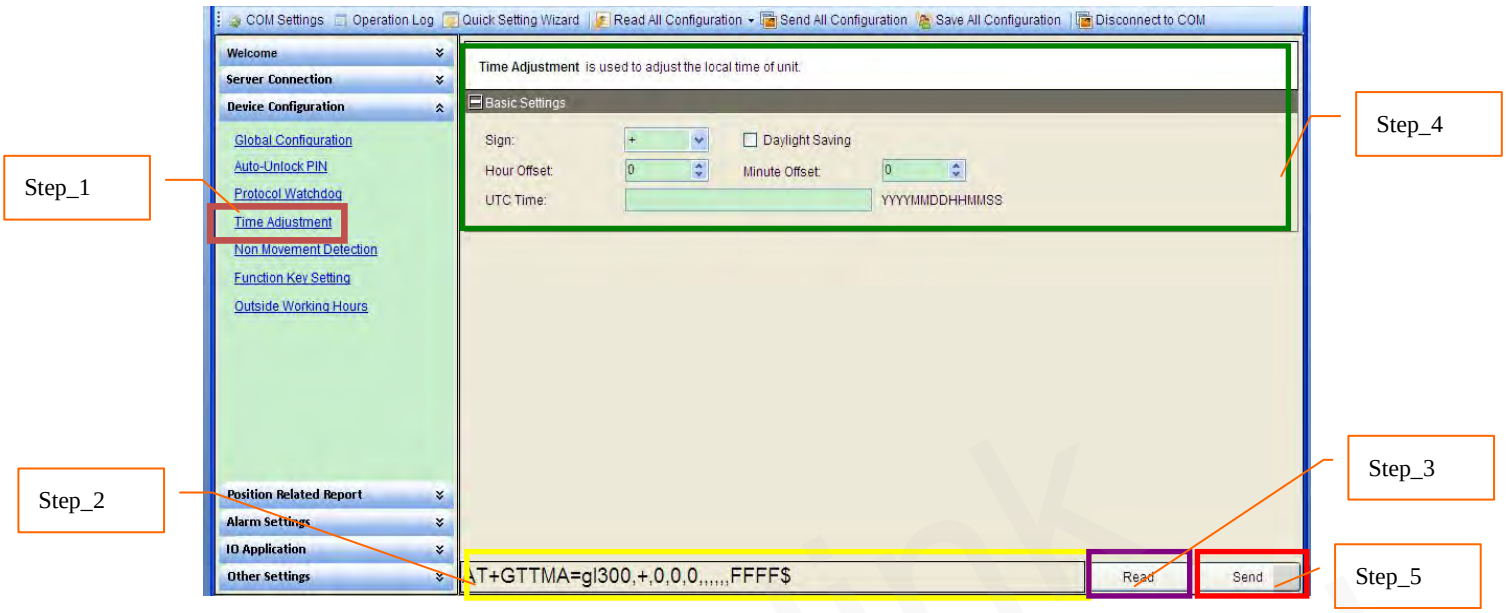
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set the Protocol Watchdog parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTDOG to GL300.

3.2.7 Set the parameters of Time Adjustment



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

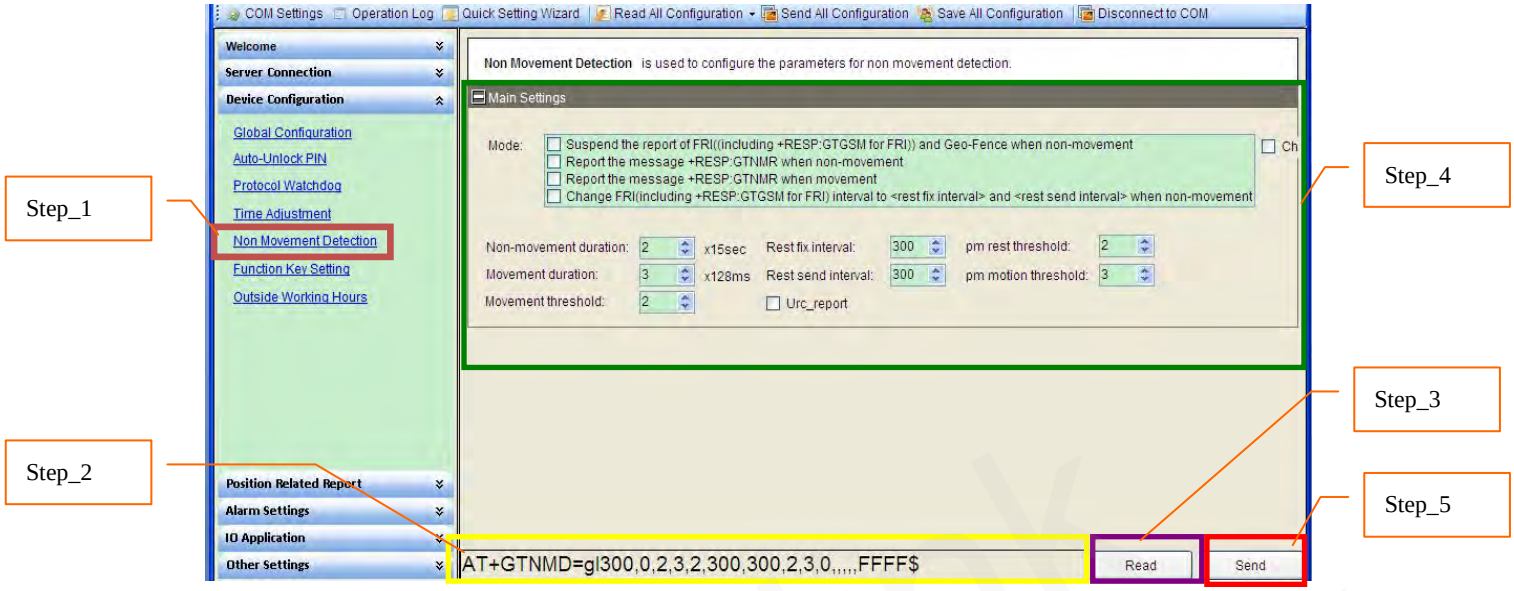
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Time Adjustment parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTTMA to GL300.

3.2.8 Set the parameters of Non Movement Detection



Step_1: Select "*Non Movement Detection*", after that the parameters of GTNMD show in Command Operation Space.

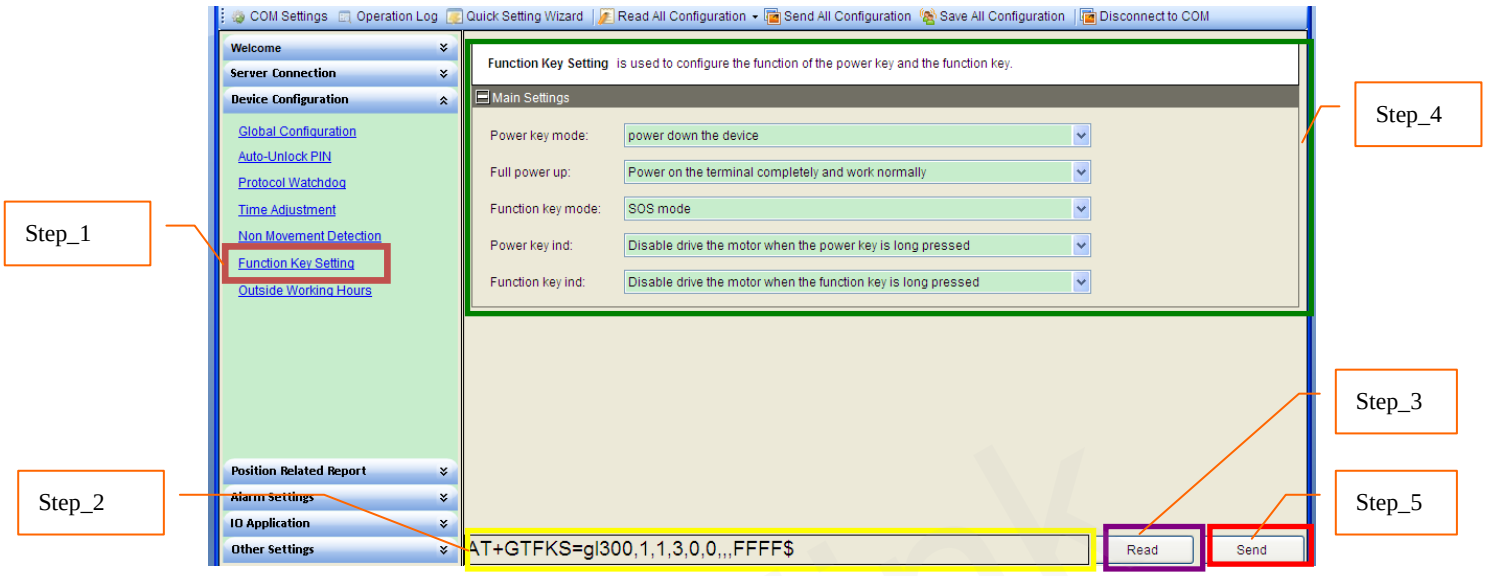
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Non Movement Detection parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTNMD to GL300.

3.2.9 Set the parameters of Function Key Setting



Step_1: Select "*Function Key Setting*", after that the parameters of GTFKS show in Command Operation Space.

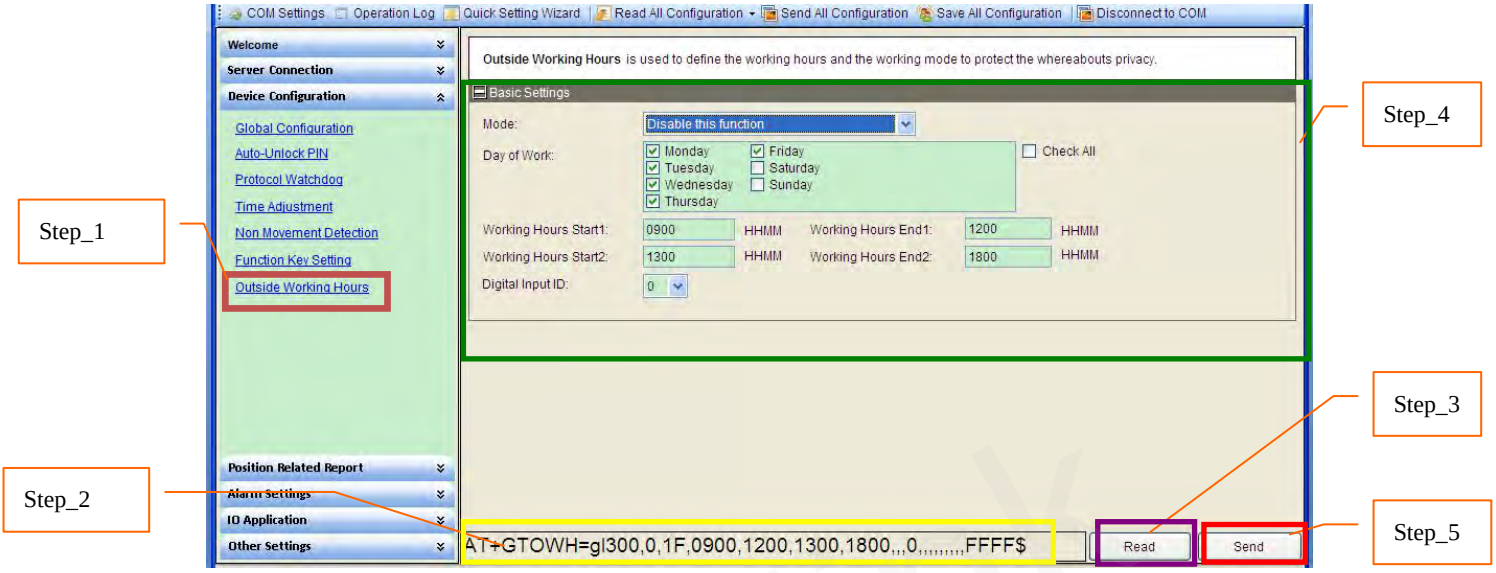
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the function key parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTFKS to GL300.

3.2.10 Set the parameters of Outside Working Hours



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

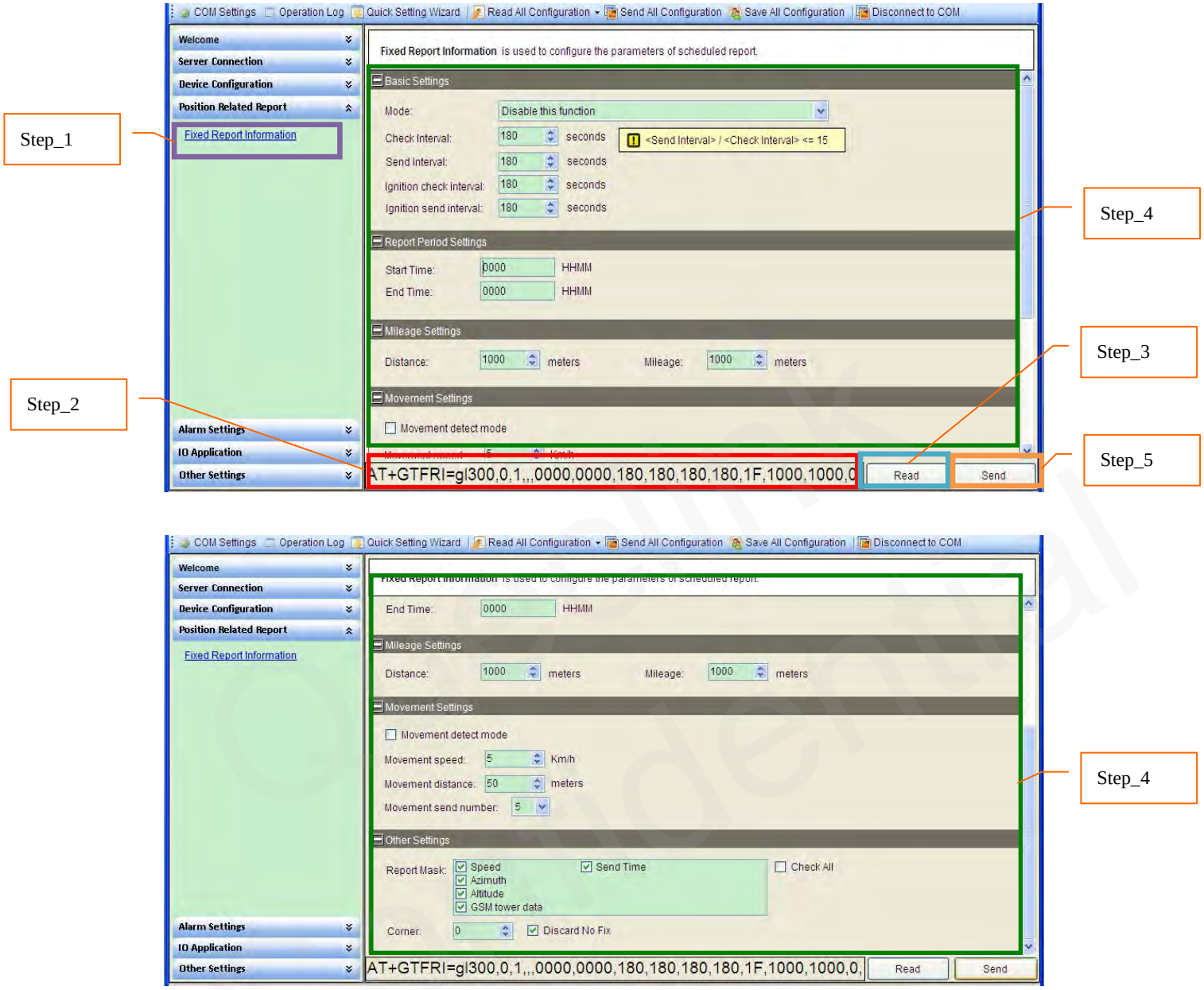
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Outside Working Hours parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTOWH to GL300.

3.2.11 Set the parameters of Fixed Report Information



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

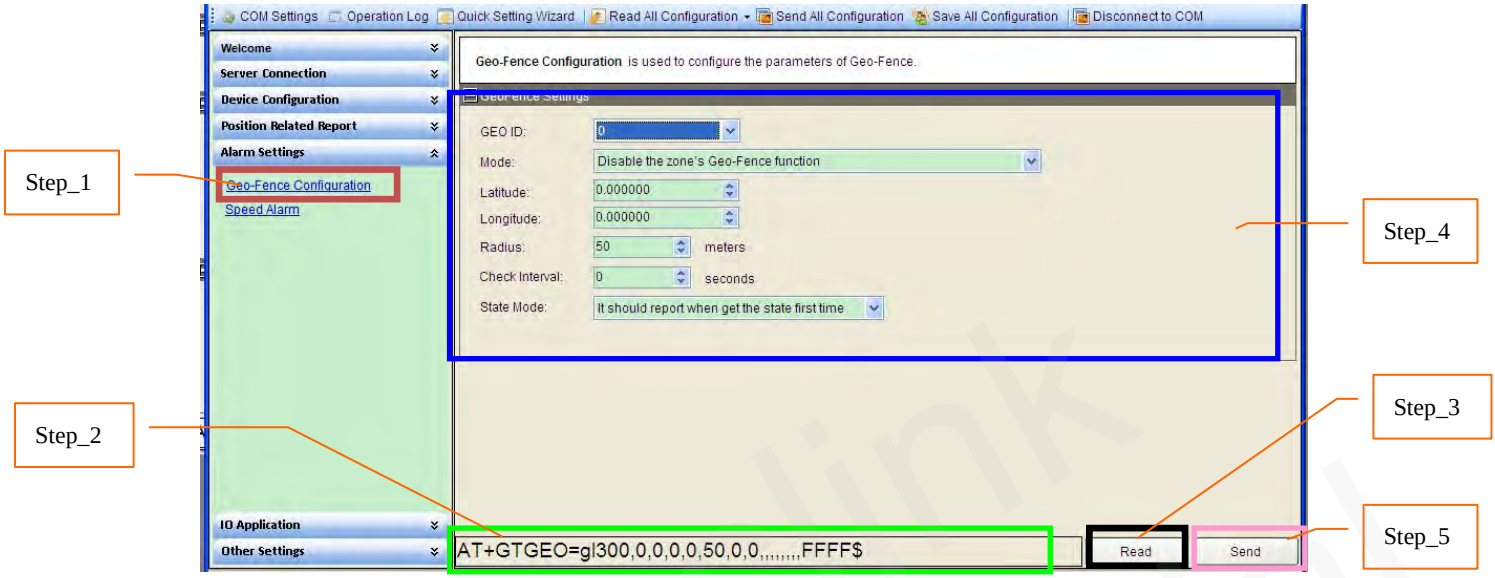
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set the scheduled report parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTFRI to GL300.

3.2.12 Set the parameters of Geo-Fence Information



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

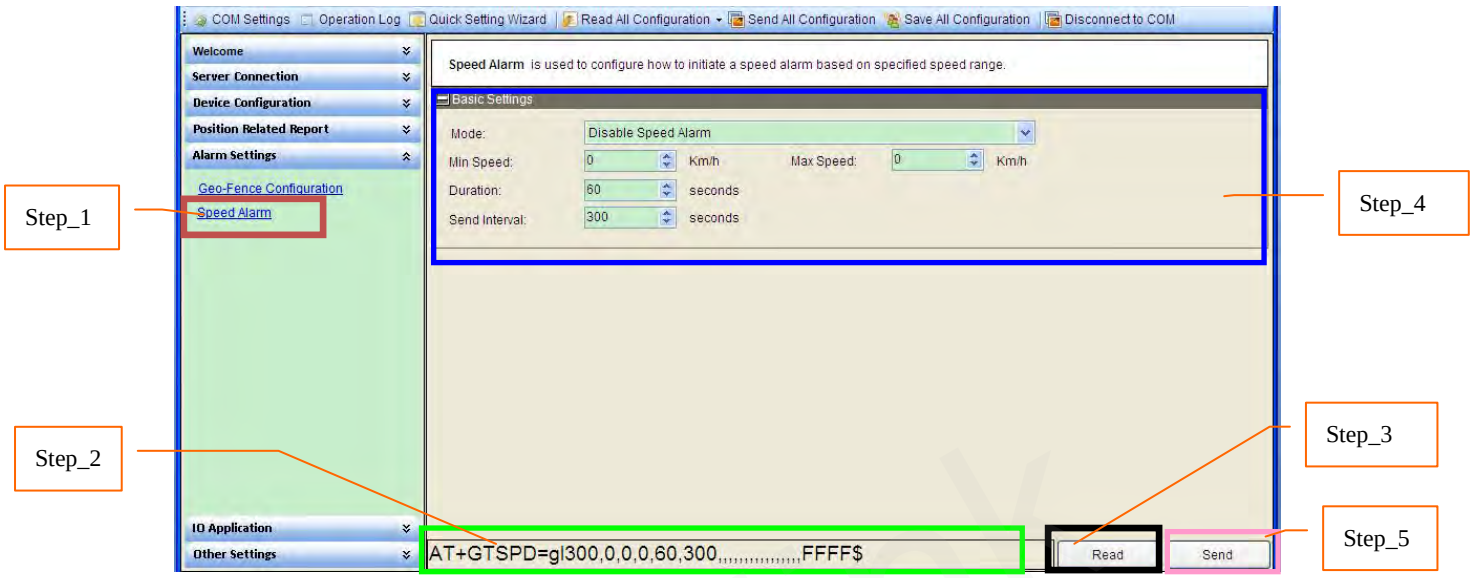
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set the Geo-Fence parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTGEO to GL300.

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.

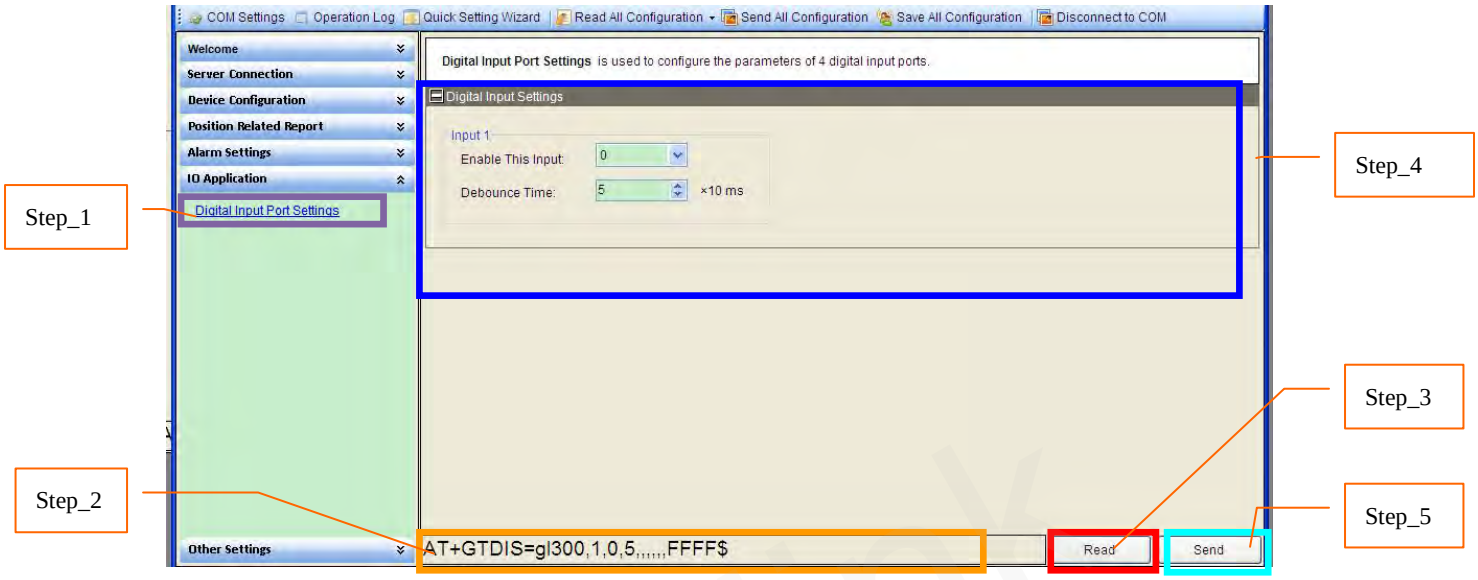
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them

Step_4: Set the Speed Alarm parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSPD to GL300.

3.2.14 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.

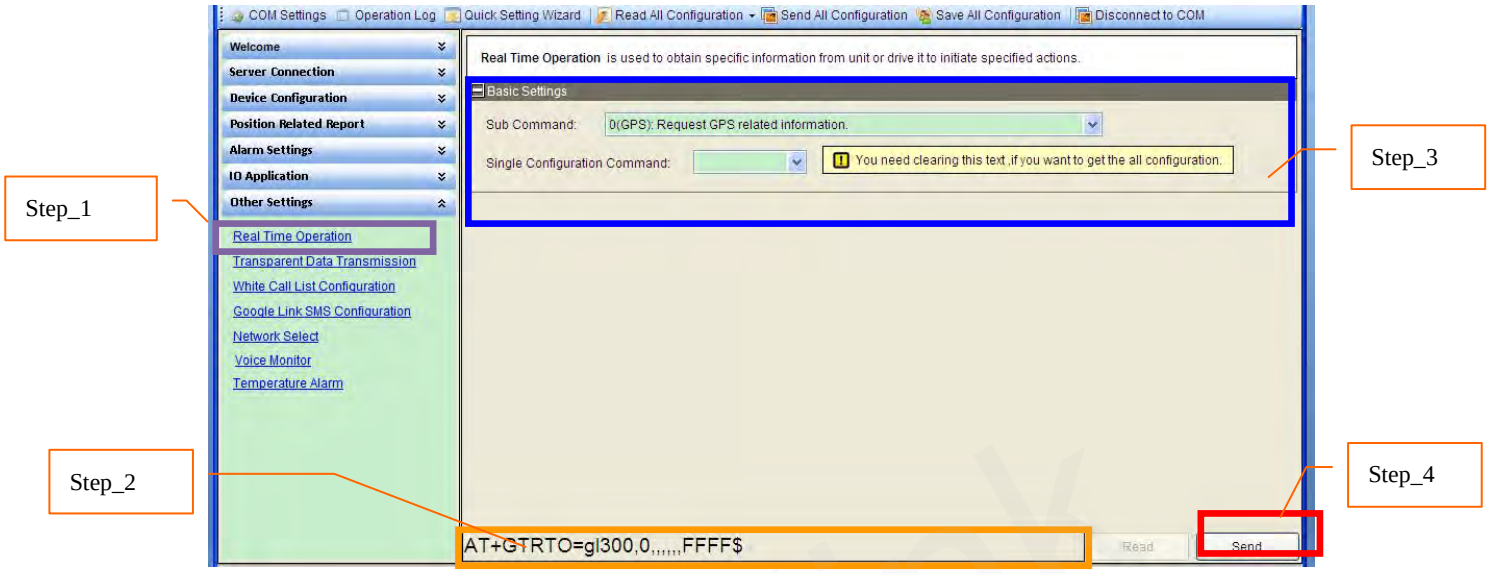
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Digital Input parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTDIS to GL300.

3.2.15 Set the parameters of Real Time Operation



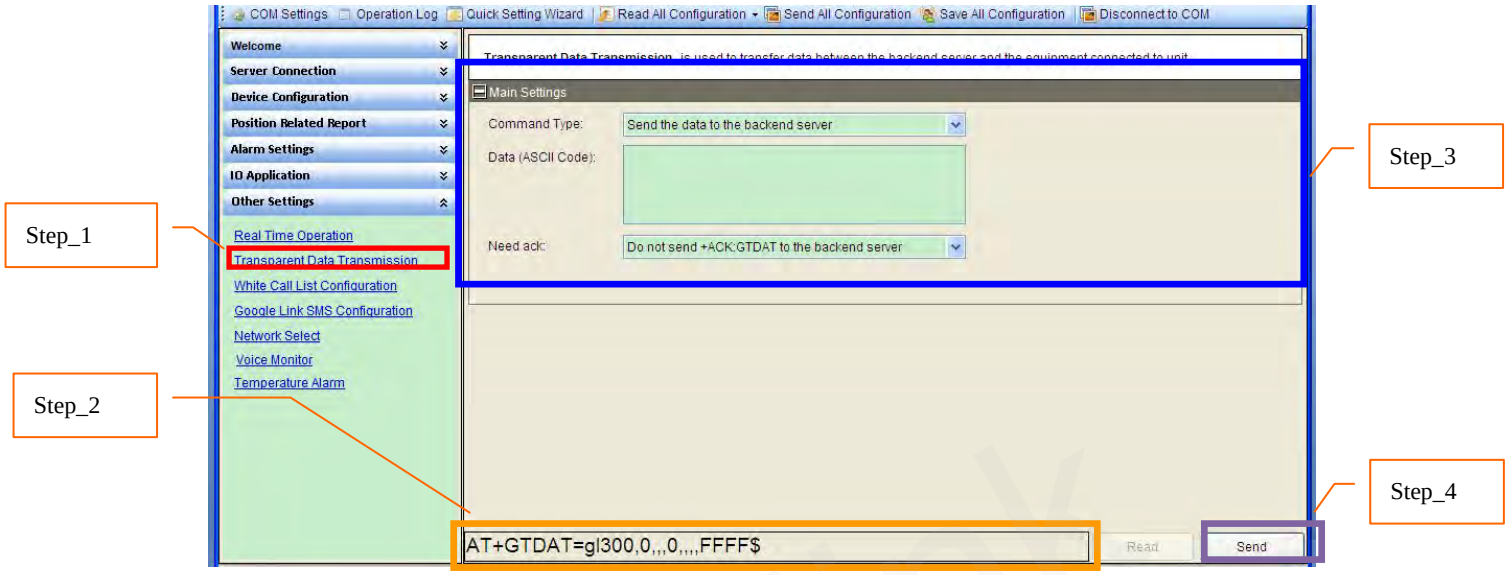
Step_1: Select "*Real Time Operation*", after that the parameters of GTRTO show in Command Operation Space.

Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: Set the real time operation parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_4: Click the "*Send*" button; download the parameters of GTRTO to GL300.

3.2.16 Set the parameters of Transparent Data Transmission



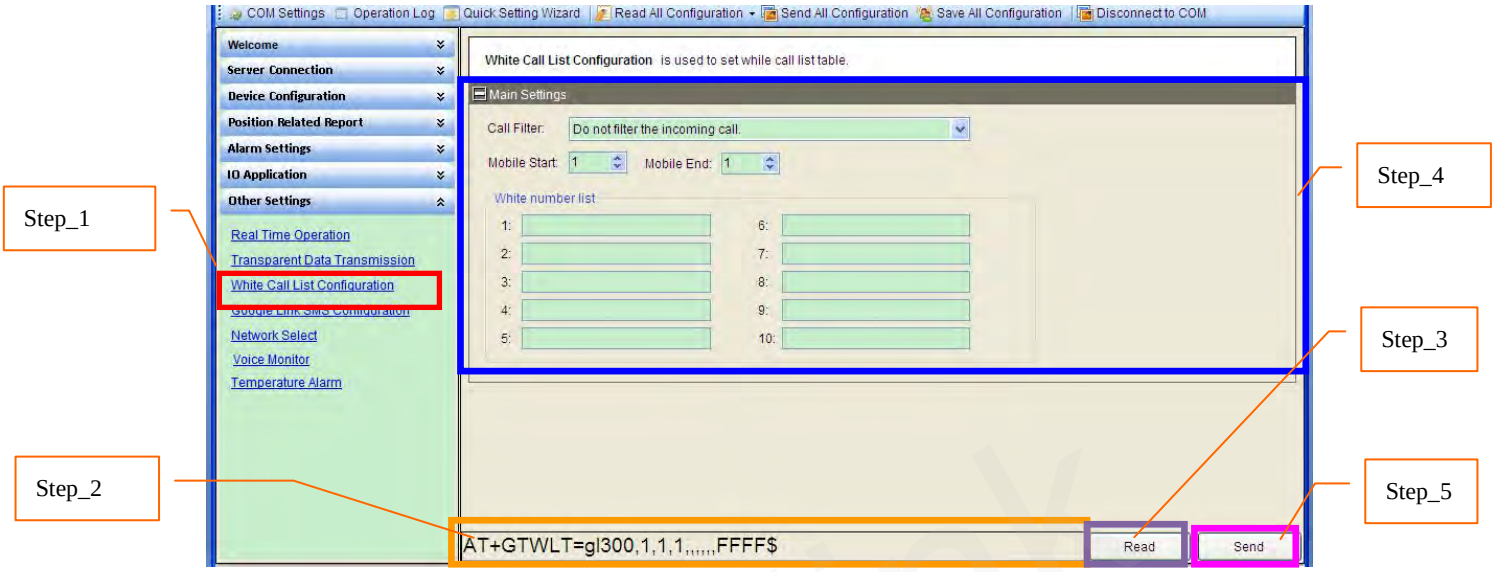
Step_1: Select "*Transparent Data Transmission*", after that the parameters of GTDAT show in Command Operation Space.

Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: Set the transparent data transmission parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_4: Click the "*Send*" button; download the parameters of GTDAT to GL300.

3.2.17 Set the parameters of White Call List Configuration



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

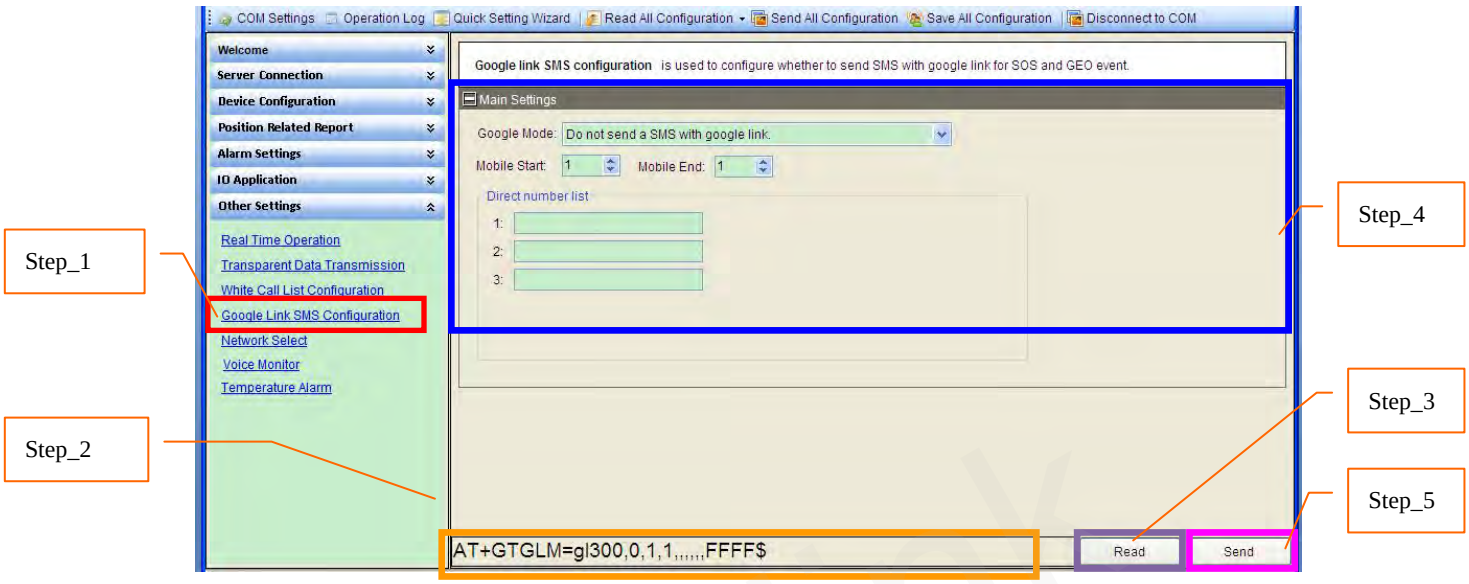
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the White Call List parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTWLT to GL300.

3.2.18 Set the parameters of Google link SMS Configuration



Step_1: Select "*Google Link SMS Configuration*", after that the parameters of GTGLM show in Command Operation Space.

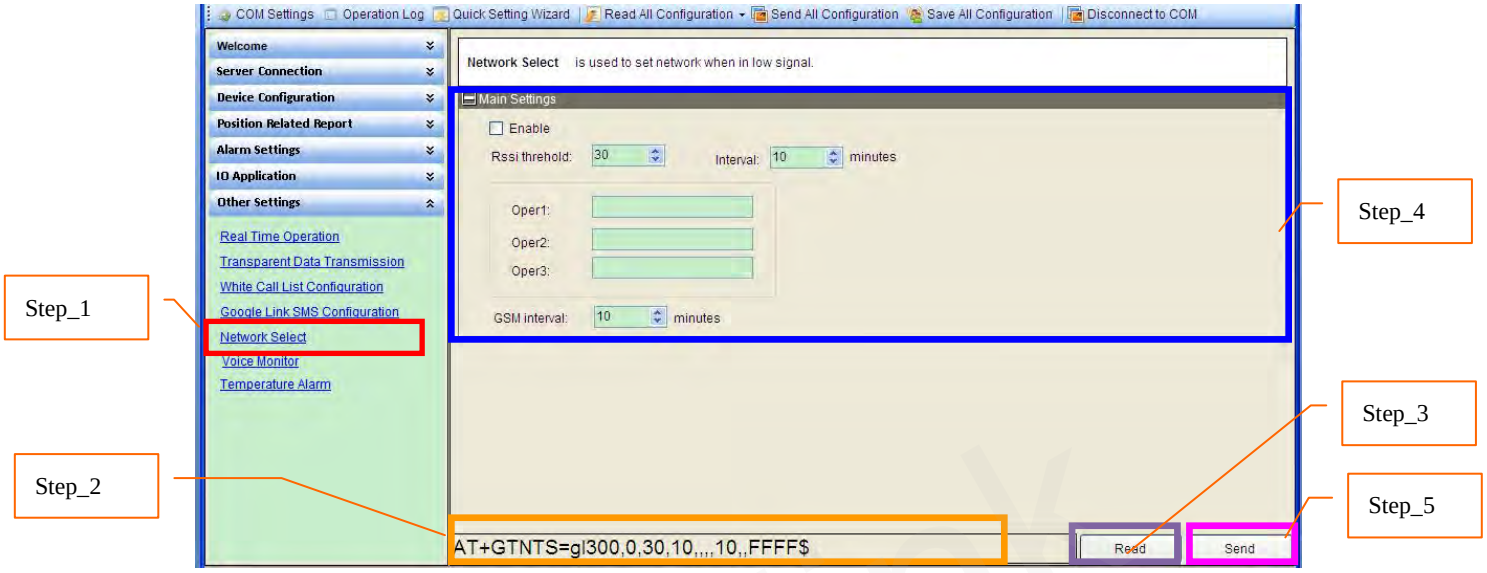
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Google Link SMS parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTGLM to GL300.

3.2.19 Set the parameters of Network Select



Step_1: Select "*Network Select*", after that the parameters of GTNTS show in Command Operation Space.

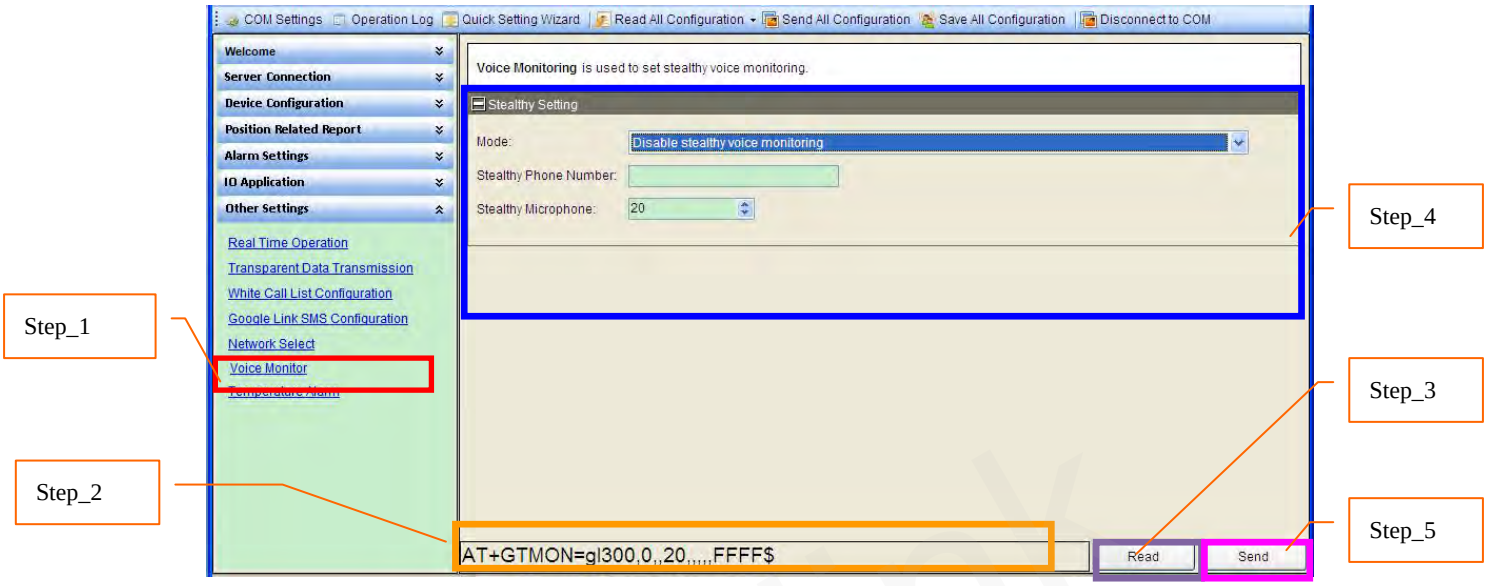
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Network Select parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTNTS to GL300.

3.2.20 Set the parameters of Voice Monitor



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

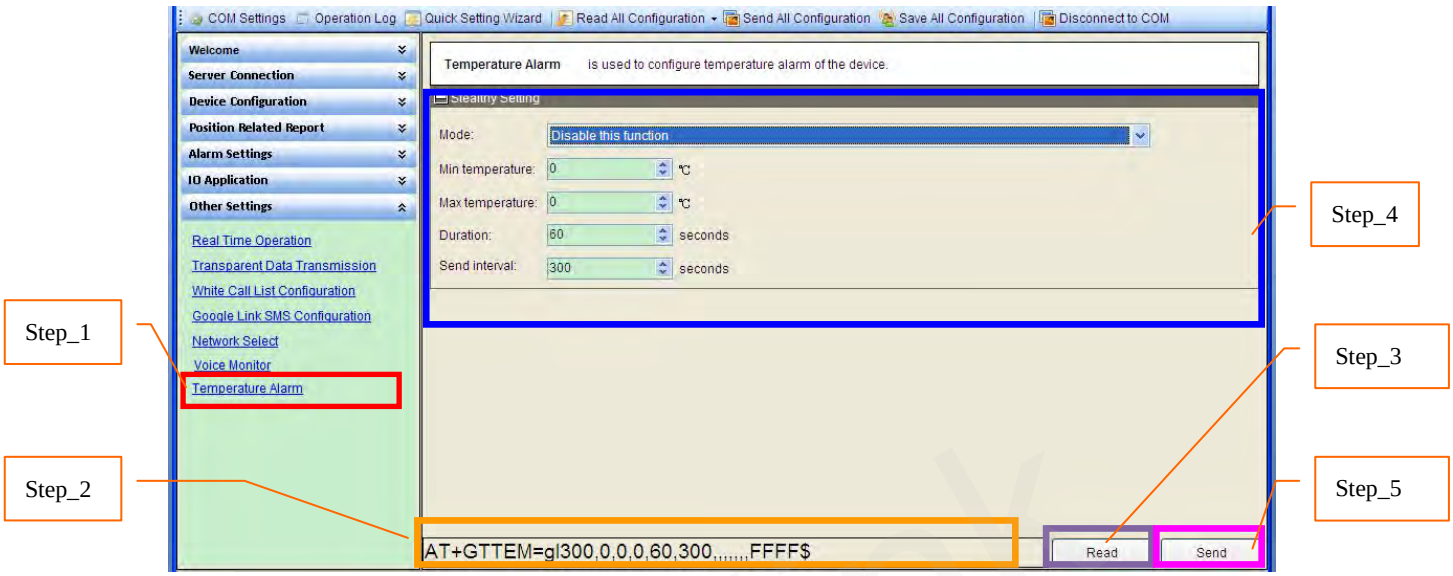
Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Voice Monitor parameters. Please refer to *"GL300 @Track Air Interface Protocol"* for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTMON to GL300.

3.2.21 Set the parameters of Temperature Alarm



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

Step_2: The command message which shall be sent to GL300 will be generated based on input and displayed here. Please note this command message can also be sent to GL300 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GL300 and edit based on them.

Step_4: Set the Temperature Alarm parameters. Please refer to "*GL300 @Track Air Interface Protocol*" for the meaning of each parameter.

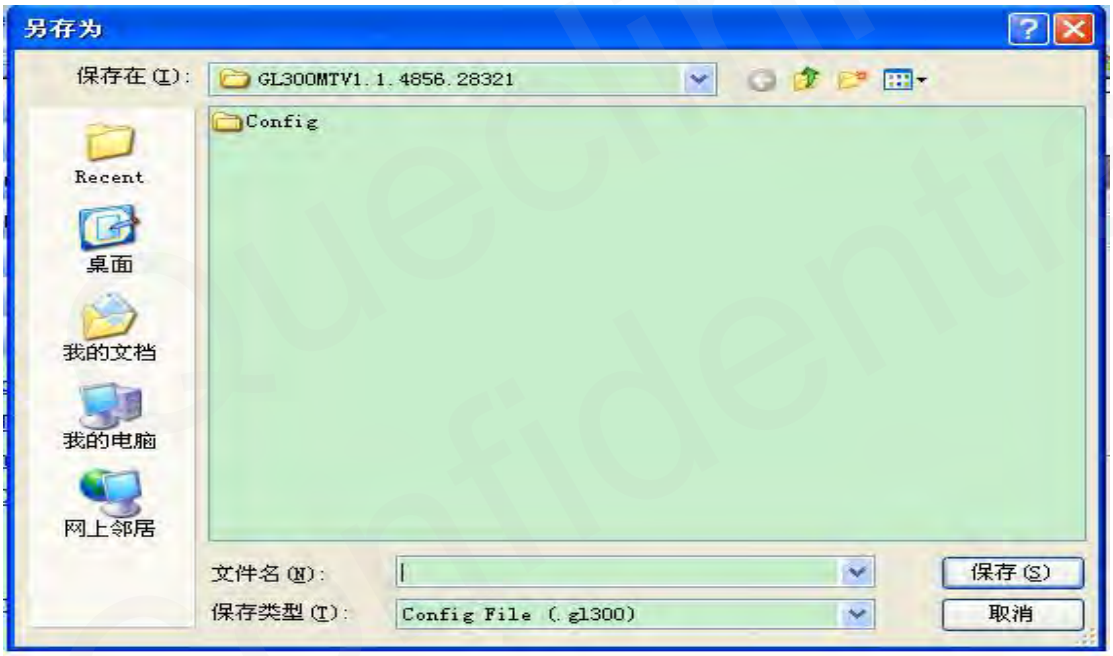
Step_5: Click the "*Send*" button; download the parameters of GTTEM to GL300

3.3. Read/Save All Configuration

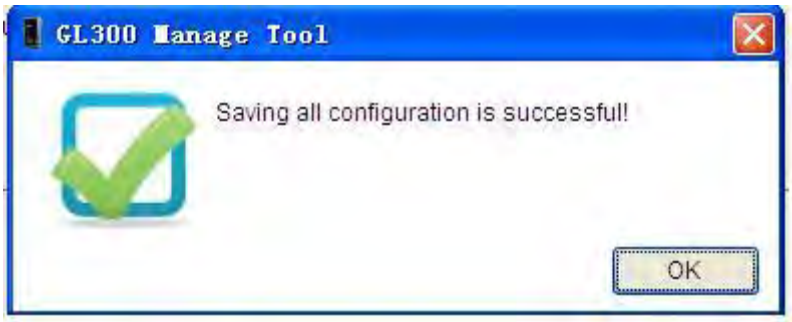
Step_1: It is recommended to read all configurations from device before saving the configuration. Select "*Read All Configuration*"→"*Read From Device*".

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.

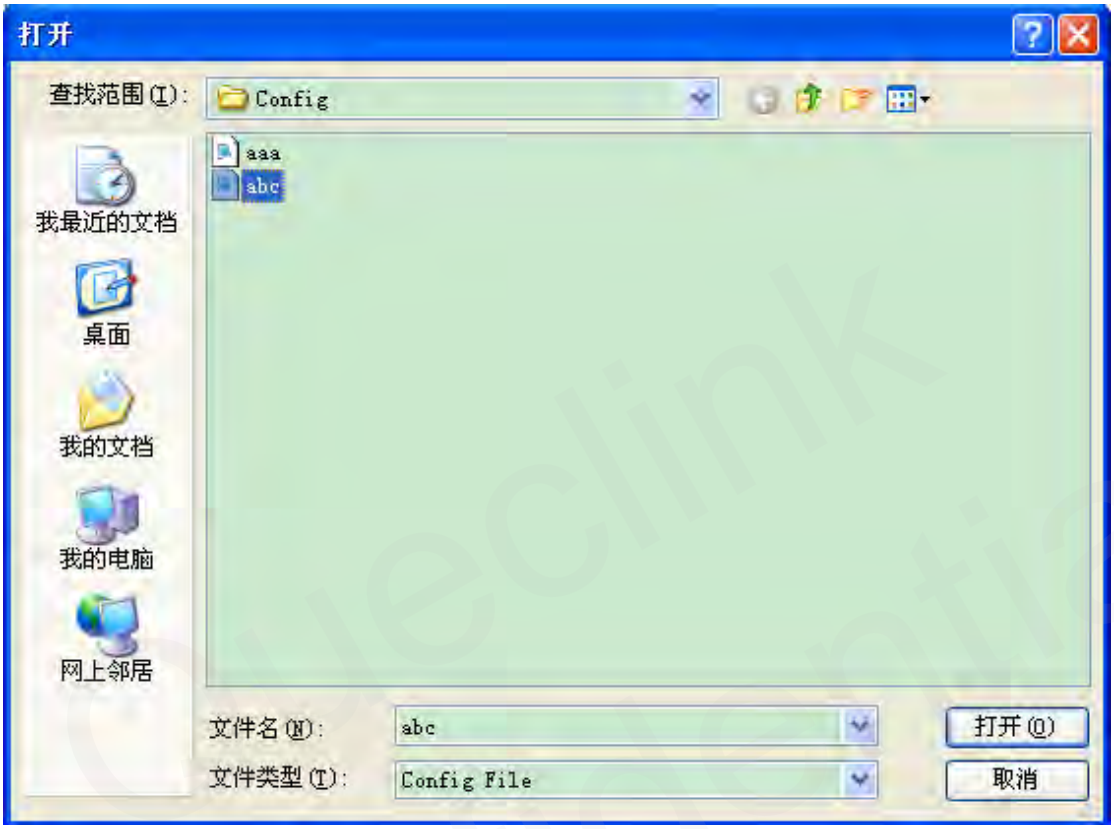


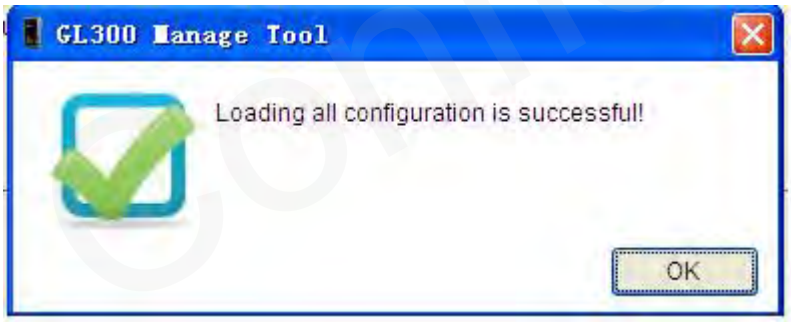
Step_4: Save successfully.



3.4. Load/Execute All Configuration

Step_1: Before execute 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 "*Execute All Configuration*" in toolbar.

Step_3: Manage Tool will write all commands to device.