GSM/GPRS/GPS Tracker **GMT100**

Manage Tool User Guide

TRACGMT100MT001

Revision: 1.05

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Document Title	GMT100 Manage tool User Guide
Version	1.05
Date	2013-8-20
Status	Release
Document Control ID	TRACGMT100MT001

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Contents

1. Revision History

Revision	Date	Author	Description of change
1.00	2011-11-03	Leaf Ye	Initial
1.01	2012-8-17	Cindy Chen	1) Command GTRTO will not be sent when "Send All Configuration". 2）Expand <Device Name>length from 10byte to 20byte. 3）Modify <corner report> range to 0-180，<IGF report interval>range to 0|5-86400sec. 4）Update the support version to GMT100R00A03V05M128_NMX
1.02	2012-11-26	Cindy Chen	1) Modify GTSPD <duration> range to 0-3600. 2) Add parameters <*GSM Interval*> and <*PDP Interval*> to the command **AT+GTDOG.** the range of <*GSM Interval*> and <*PDP Interval*> is 0|5-1440min. 3）Update the support version to GMT100R00A04V06M128_NMX
1.03	2013-1-15	Cindy Chen	1）Add a new command **AT+GTHRM** to customize the composition of the HEX report message. 2）Add a new command **AT+GTSSR** for Start / Stop detection. 3）Update the support version to GMT100R00A05V05M128_NMX
1.04	2013-3-17	Cindy Chen	1）Add <*PDP reset interval*> in **GTDOG** to reactivate PDP context periodically. 2）Add <*Connection On Always*> in **GTSRI** and **GTQSS** to define whether make device keep TCP/UDP connection always on. 3）Modify the range of <*Min Threshold*> and <*Max Threshold*> in **AT+ GTEPS** to 250 – 32000 mV. 4）Add a new mode and parameter <*Validity*> for **AT+GTEPS** to support voltage alarm. 5）Update the support version to GMT100R00A06V07M128_NMX

1.05	2013-7-17	Young Wang	1） Add a new command **AT+GTNMD** for Non-movement detection 2） Add a new command **AT+GTFFC** to change FRI Report frequency when some certain event has happened 3） Update the support version to GMT100R00A06V07M128_NMX

2. GMT100 Manage Tool Interface

GMT100 manage tool is PC software which can be used to configure GMT100 through UART. It is easy for the backend server developers to configure GMT100 with manage tool, which has friendly user interface. The correct command messages sent to GMT100 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 GMT100 before selling. But it is strongly recommended to establish a backend server and implement the way to control GMT100 by SMS or GPRS. Please refer to "*GMT100 @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 GMT100 to 12VDC power supply and GMT100 will power on.
2. Connect GMT100 to PC with USB data cable (DATA CABLE_M).
3. Run "**GMT100 Manage Tool Vx.xx.exe**".

2.1. System Requirements

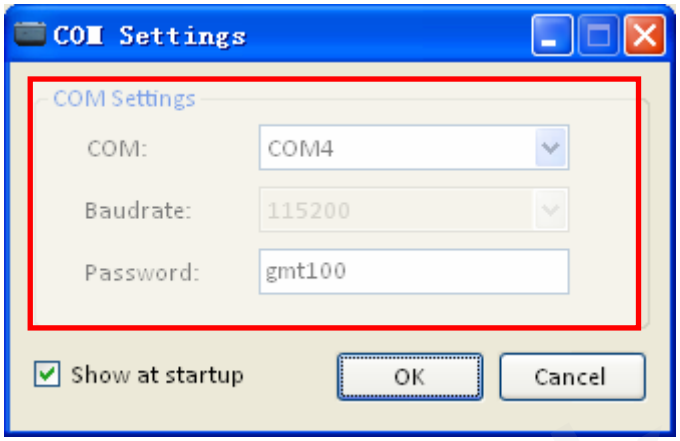
In order for this manage tool to run on your computer, you must use it in below operating system:

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

Supported System Environments:

- Microsoft .NET Framework 2.0 or higher

2.2. COM Setting



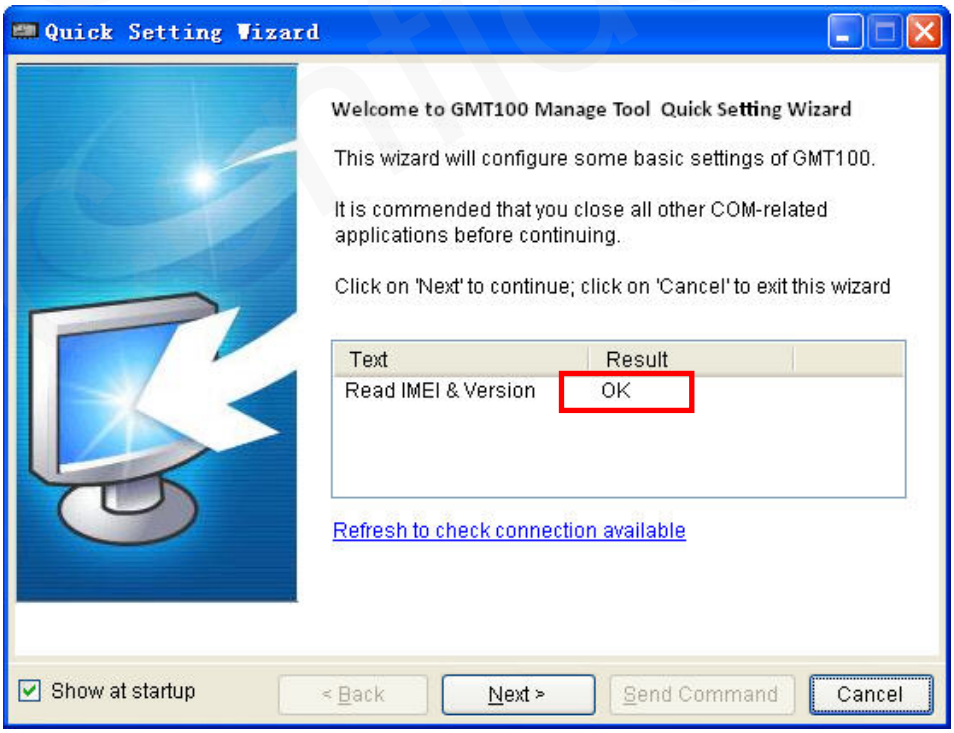
Select the COM port and baud rate (115200bps in default), input the password ("gmt100" in default), and click "OK" button, then setting window will display.

2.3. Quick Setting Wizard

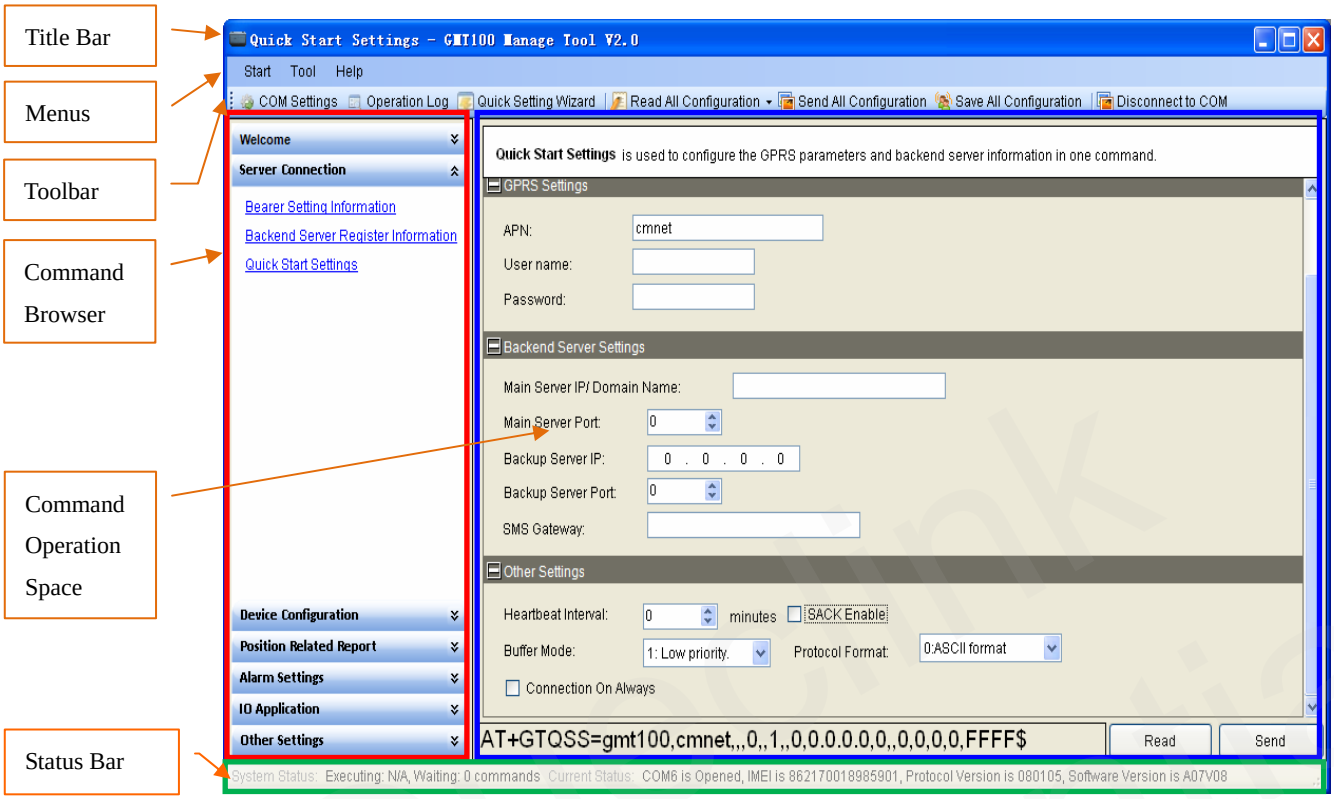
The quick setting wizard gives a basic setting for device. If you want use more functions of GMT100, please change to enter professional setting mode.

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

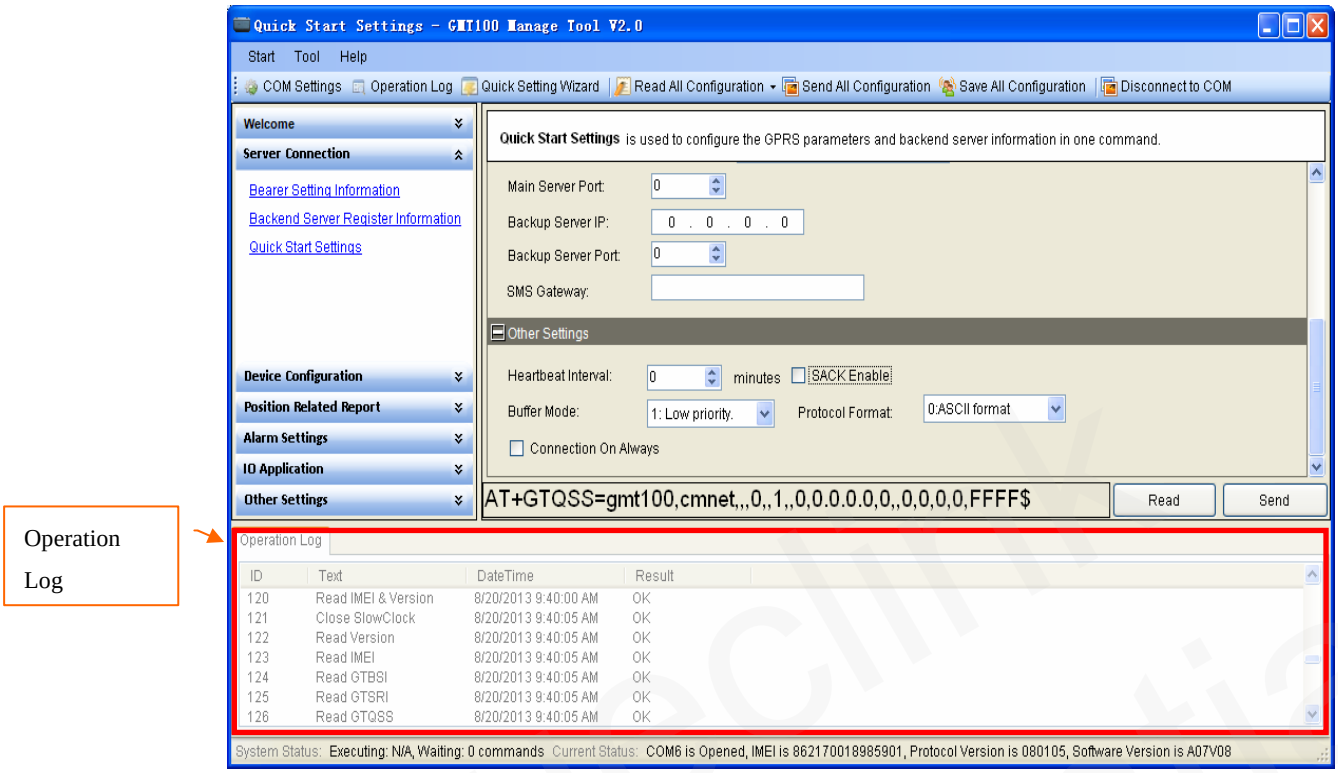
2.4.2.2 Tool Menu

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.

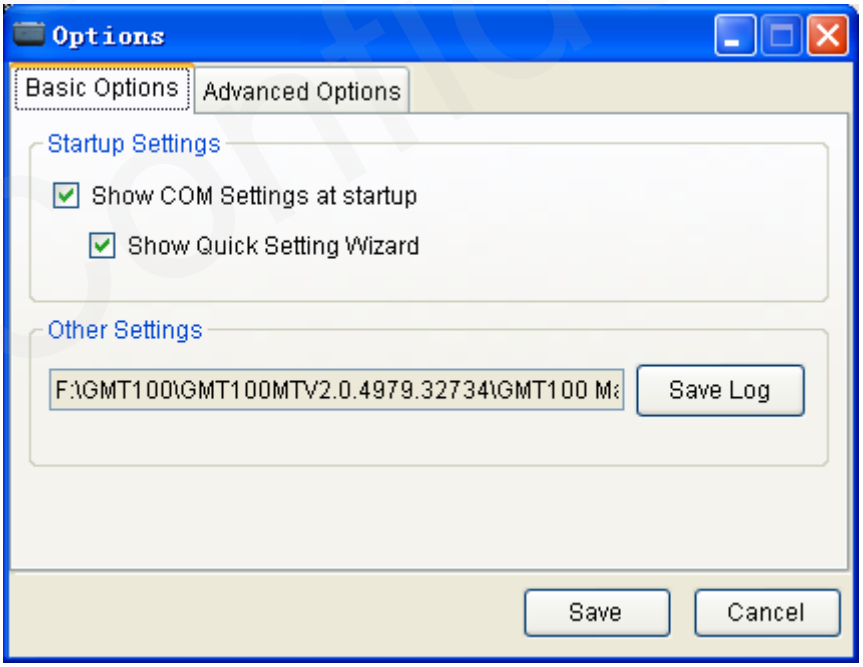
[Operation Log]: It is used to display/hidden the operation log.



Operation Log

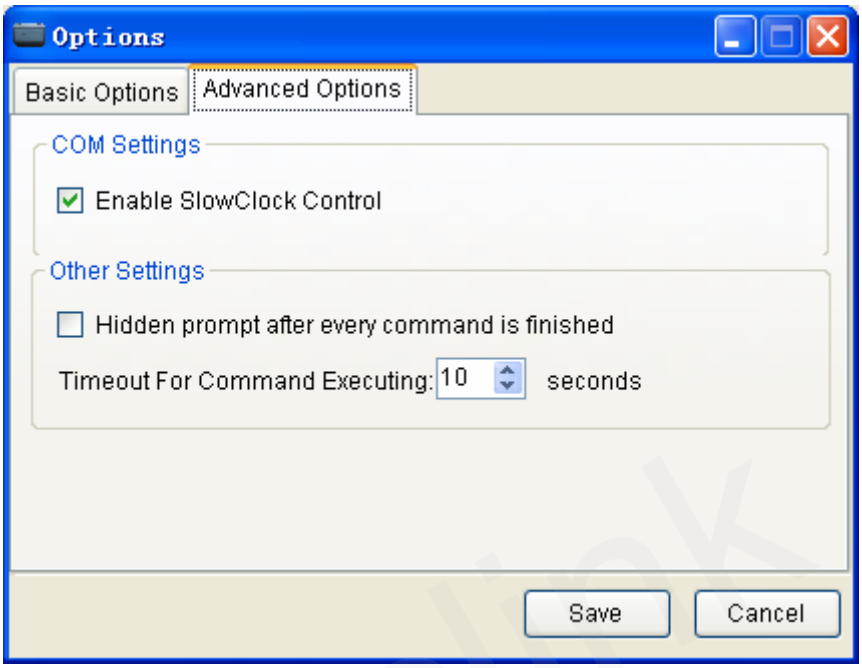
[Options]: It is used to set the basic setting of manage tool.

"*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 MCU version of the firmware which connects to the PC.

"*Hw Version*" indicates the hardware version of the device which connects 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 from device which connects to PC.
"*Load Configuration From File*": It is used to load configuration file to the manage tool.

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

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

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

2.4.4. Status Bar

There is system status and current status in status bar.

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

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

2.4.5. Command Browser and Command Operation Space

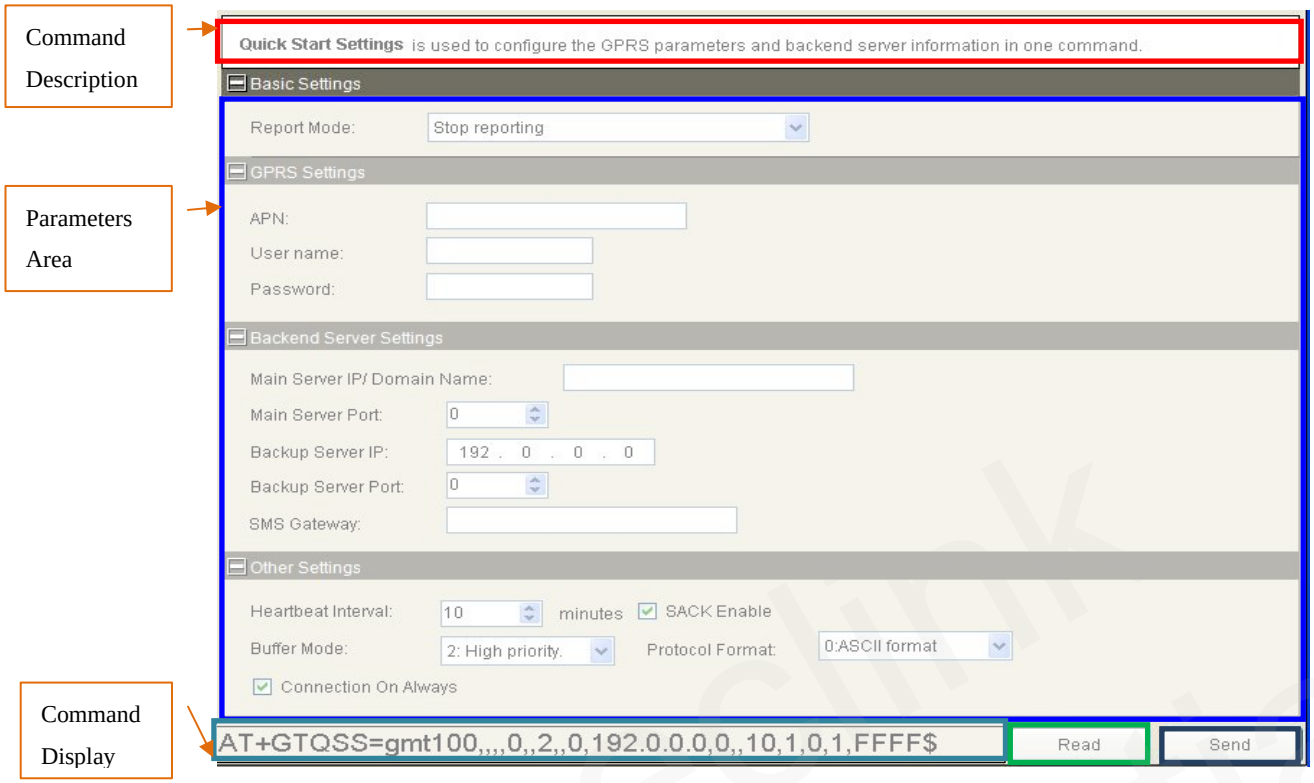
This area is mainly read and set parameters of device.

2.4.5.1 Command Brower

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

Command Brower	Function Description	Relative Command
Server Connection	Bearer Setting Information	GTBSI
	Backend Server Register Information	GTSRI
	Quick Start Settings	GTQSS
Device Configuration	Global Configuration	GTCFG
	Auto-Unlock PIN	GTPIN
	Software Protocol Watchdog	GTDOG
	Outside Working Hours	GTOWH
	Time Adjustment	GTTMA
	Jamming Detection Configuration	GTJDC
	Hex Report Mask	GTHRM
Position Related Report	Fixed Position Information	GTFRI
Alarm Settings	Geo-Fence Configuration	GTGEO
	Tow Alarm Configuration	GTTOW
	Speed Alarm	GTSPD
	SOS Alarm	GTSOS
	Excessive Idling Detection	GTIDL
	Harsh Behavior Monitoring	GTHBM
IO Application	Digital Output Port Settings	GTOUT
	External Power Supply Monitoring	GTEPS
	Digital Input Port Settings	GTDIS
	Analog Input Port Settings	GTAIS
	Input/Output Port Binding	GTIOB
Other Settings	Ignition Time Counter	GTHMC
	Real Time Operation	GTRTO
	Start Stop Report	GTSSR
	Non Movement Detection	GTNMD
	Frequency Change of Fixed Report Information	GTFFC

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.

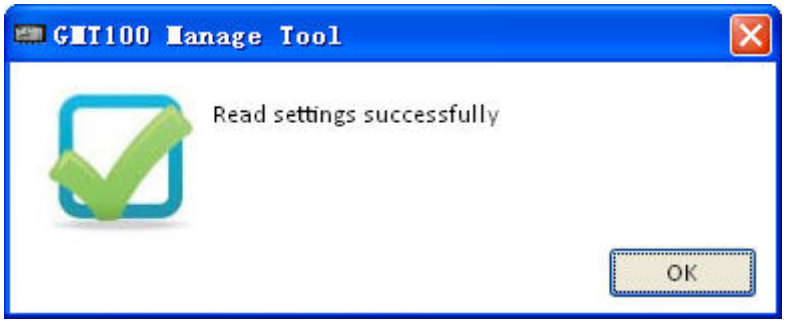
[Command Display]: Command with parameters in parameters area display in this area.

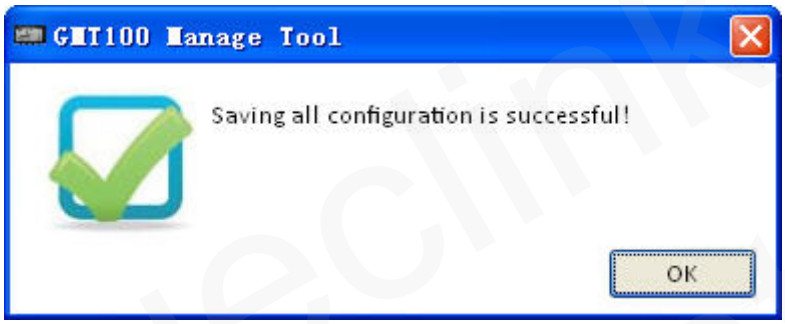
[Read]: Click this button to read this command from device.

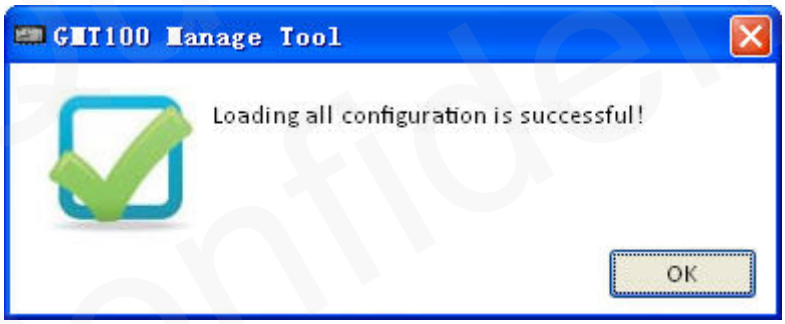
[Send]: Click this button to send this command to device.

2.5. Operation Result Interface

2.5.1. Operation Successfully Interface

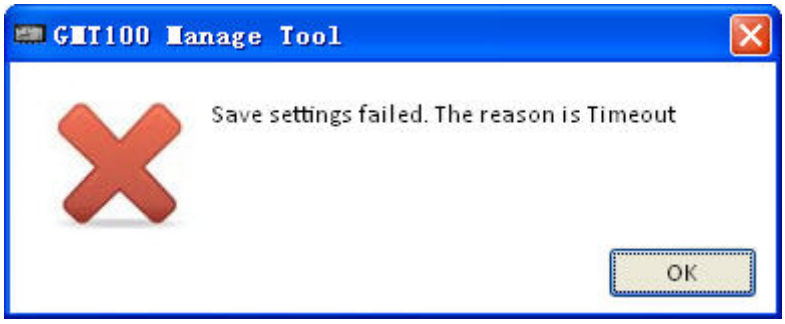




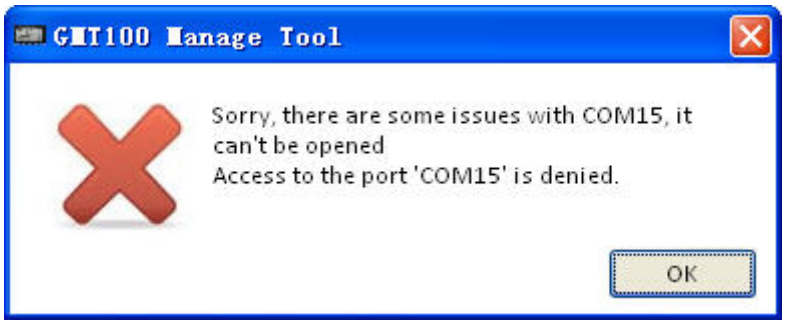


2.5.2. Operation Failed Interface

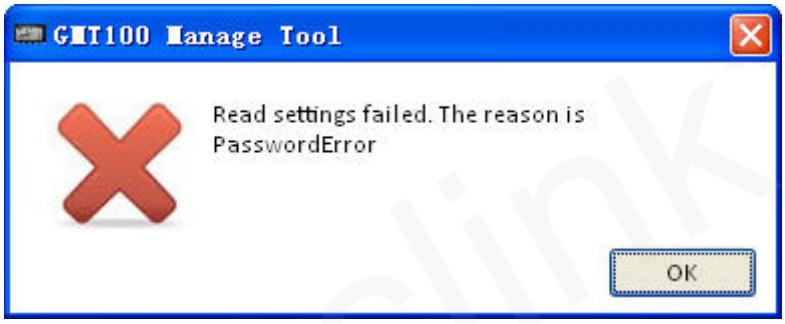
There should be COM port connection problem if the fail reason is timeout.



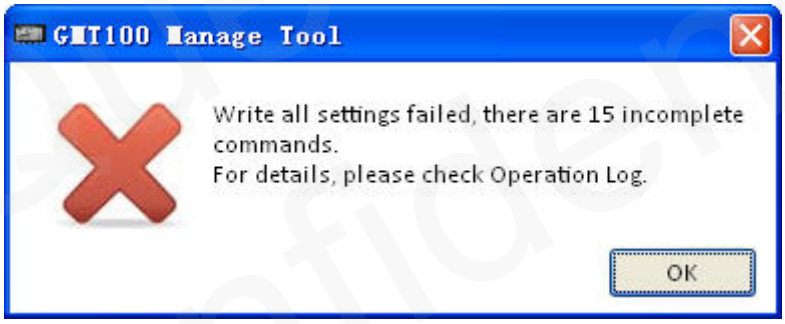
There should be COM port is occupied. Please close all other COM-related applications.



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

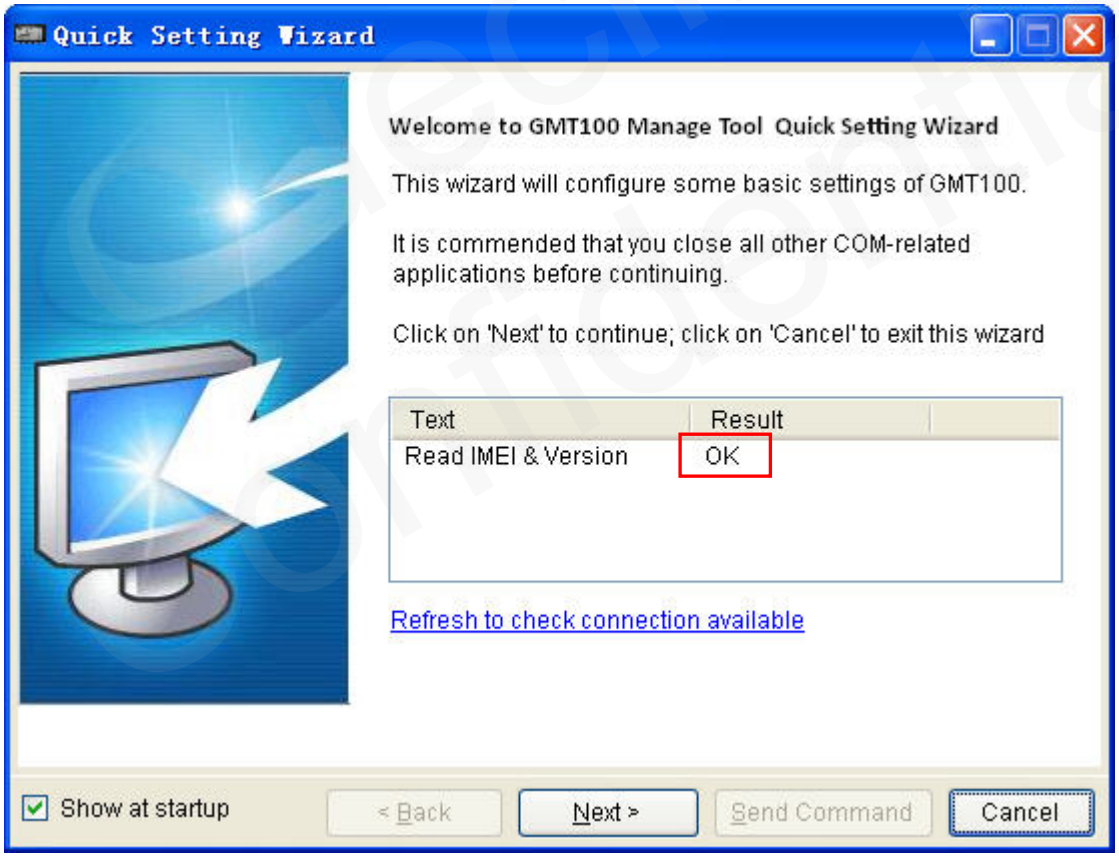
3.1. Device Configuration with Quick Setting Wizard

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "*GMT100 @Track Air Interface Protocol*" for detail.

The quick setting wizard gives a basic setting for device. If you want use more functions of GMT100, 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.



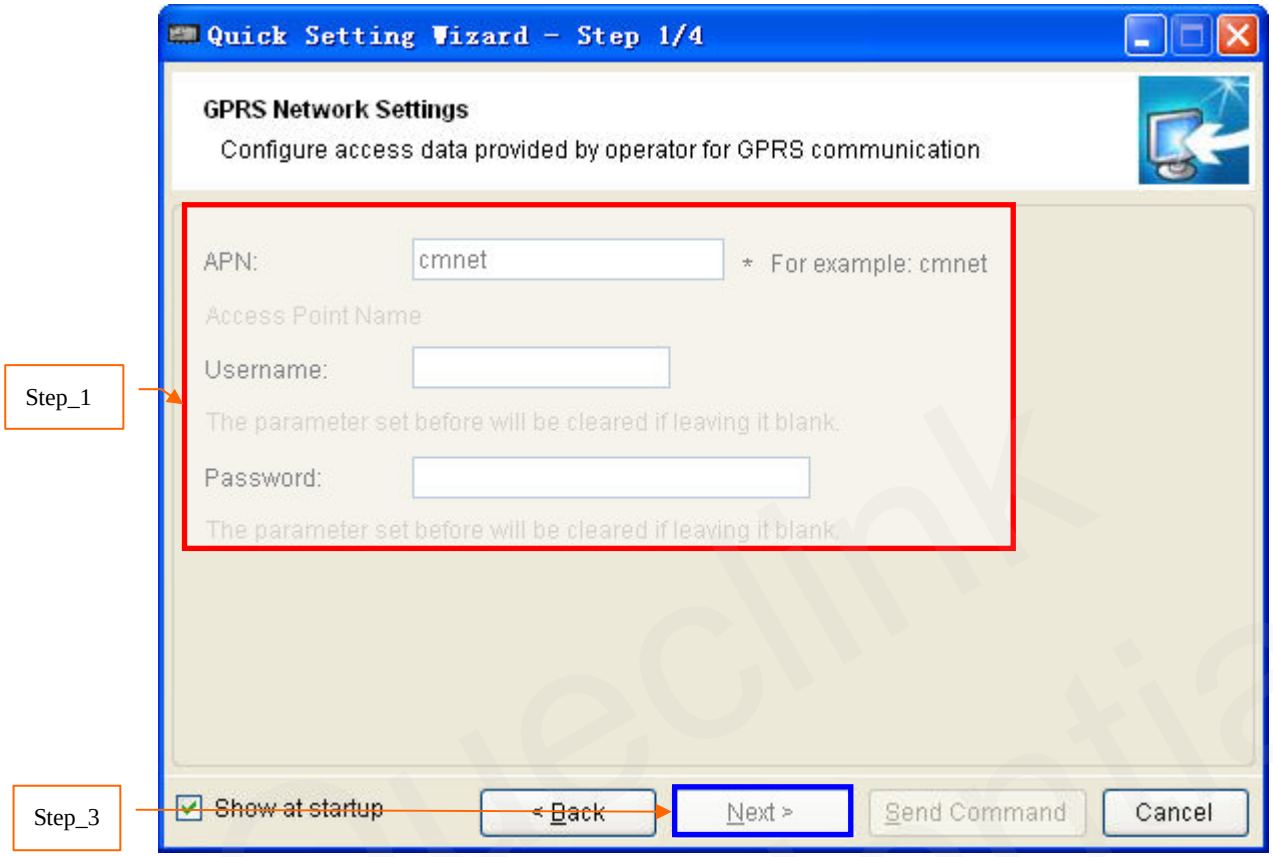
Welcome to Quick Setting Wizard

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 "*GMT100 @Track Air Interface Protocol*" for detail.

Step_2: Then click "*Next*".

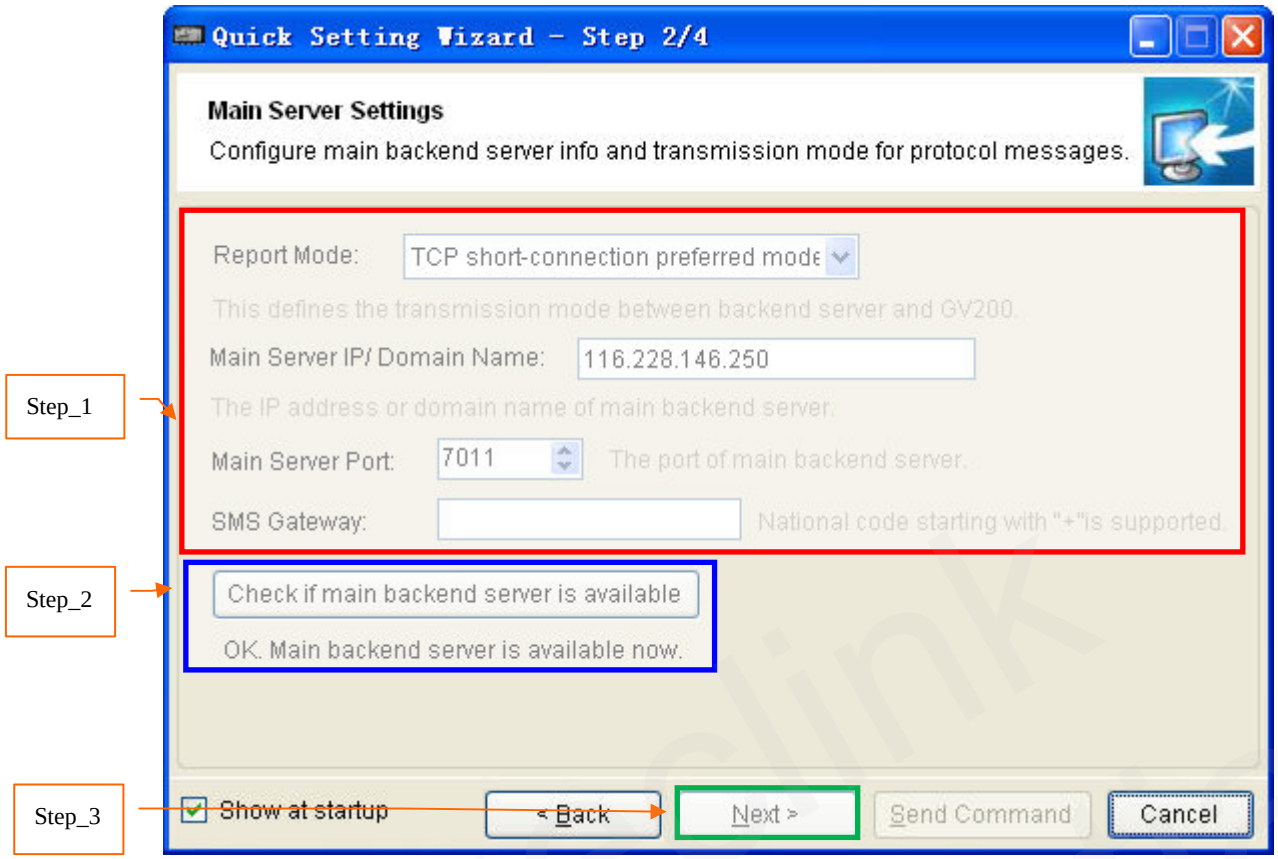


3.1.3. Main Server Setting

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 "*GMT100 @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.

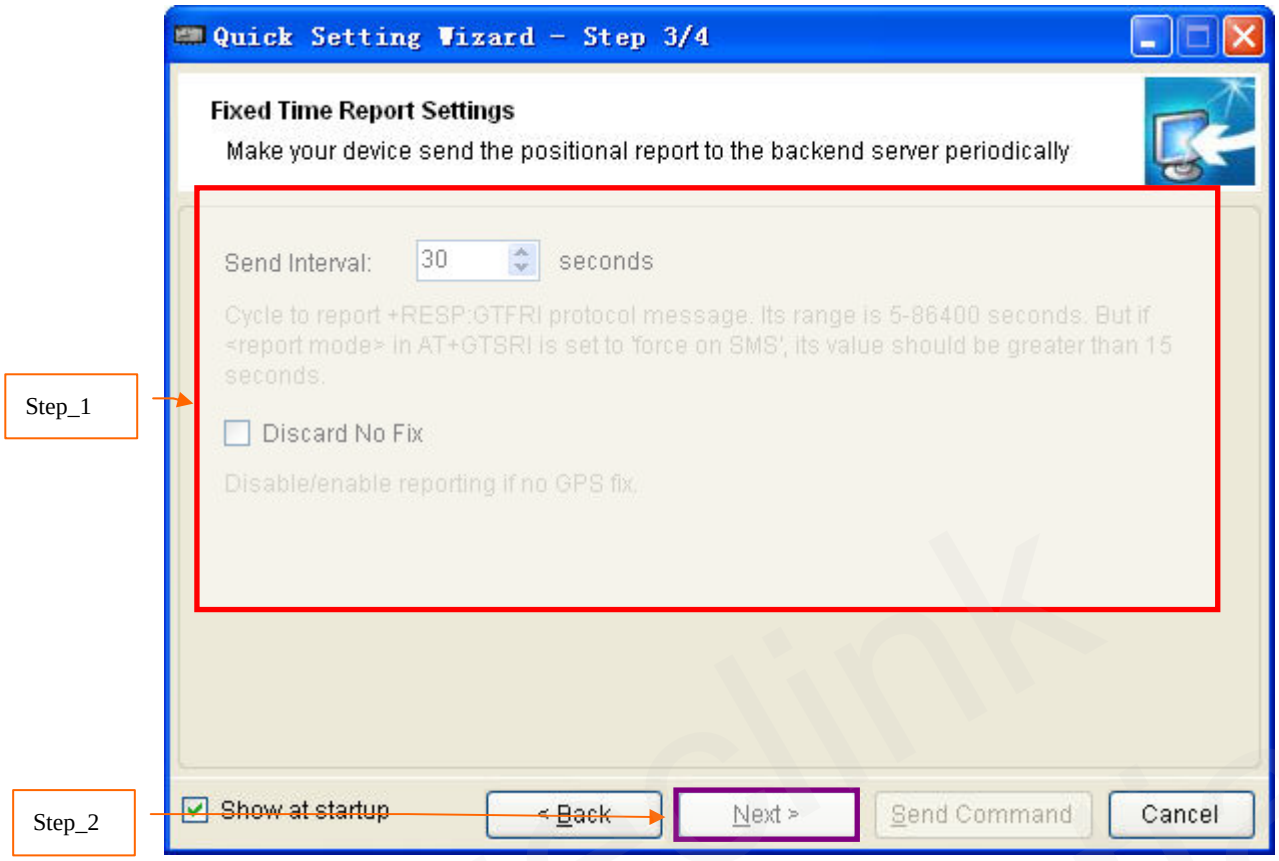
Step_3: Click "*Next*".



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 "*GMT100 @Track Air Interface Protocol*" for detail.

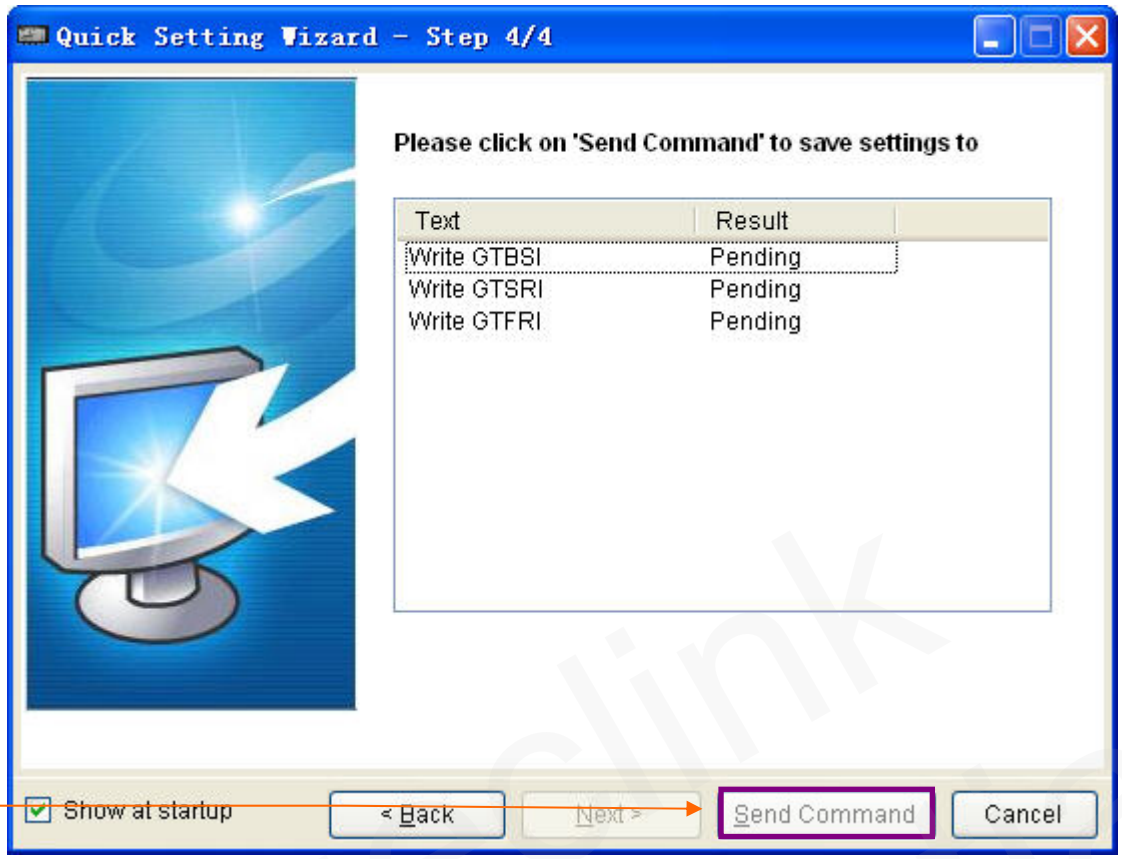
Step_2: Click "*Next*".



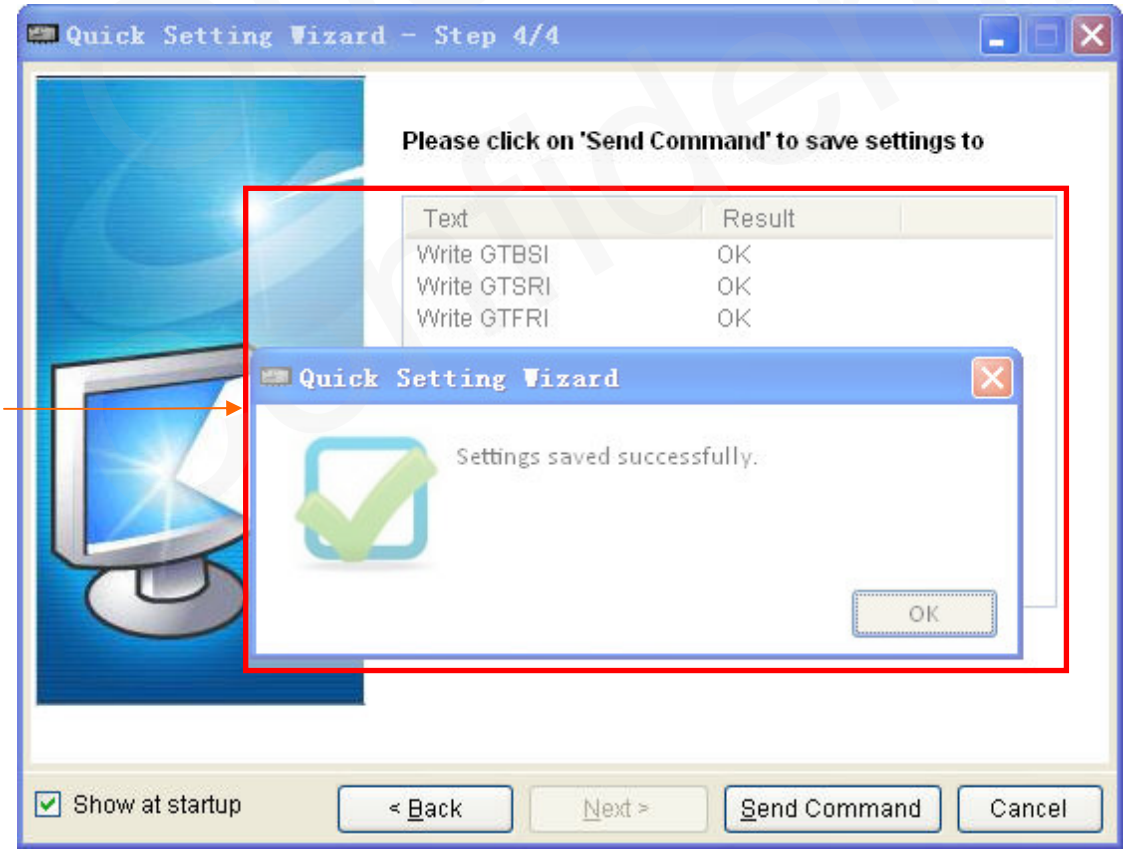
3.1.5. Send Command to Device

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
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
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

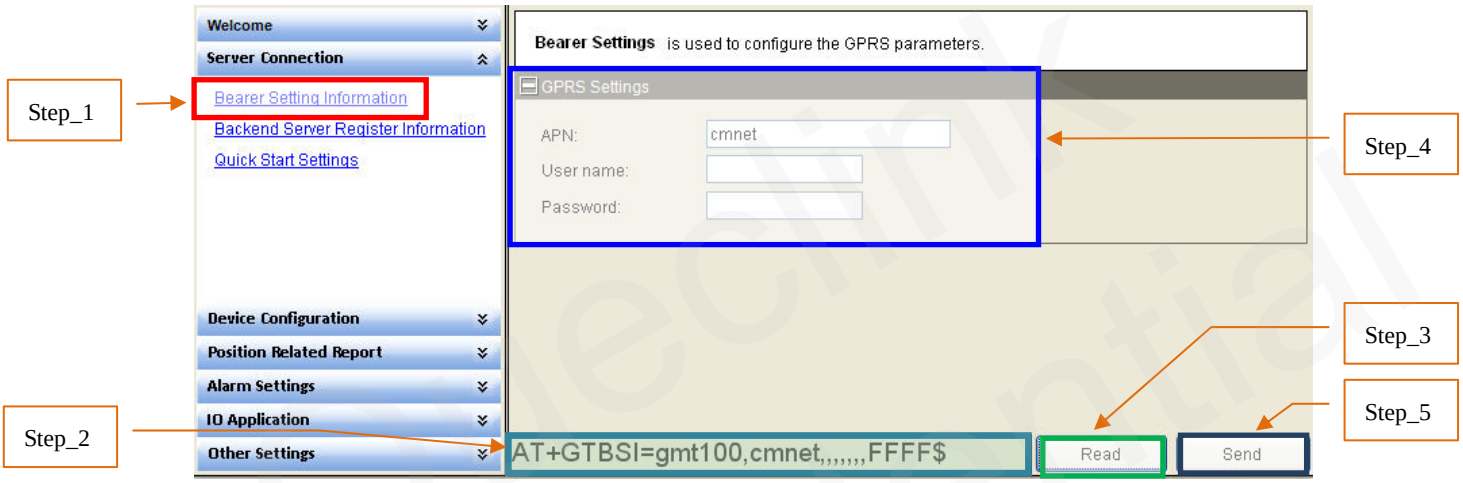
Step_2

3.2. Device Configuration in Professional Setting Mode

The manage tool is developed based on the @Track Air Interface Protocol. Please refer to "*GMT100 @Track Air Interface Protocol*" for detail.

Following is a general procedure to configure GMT100 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.

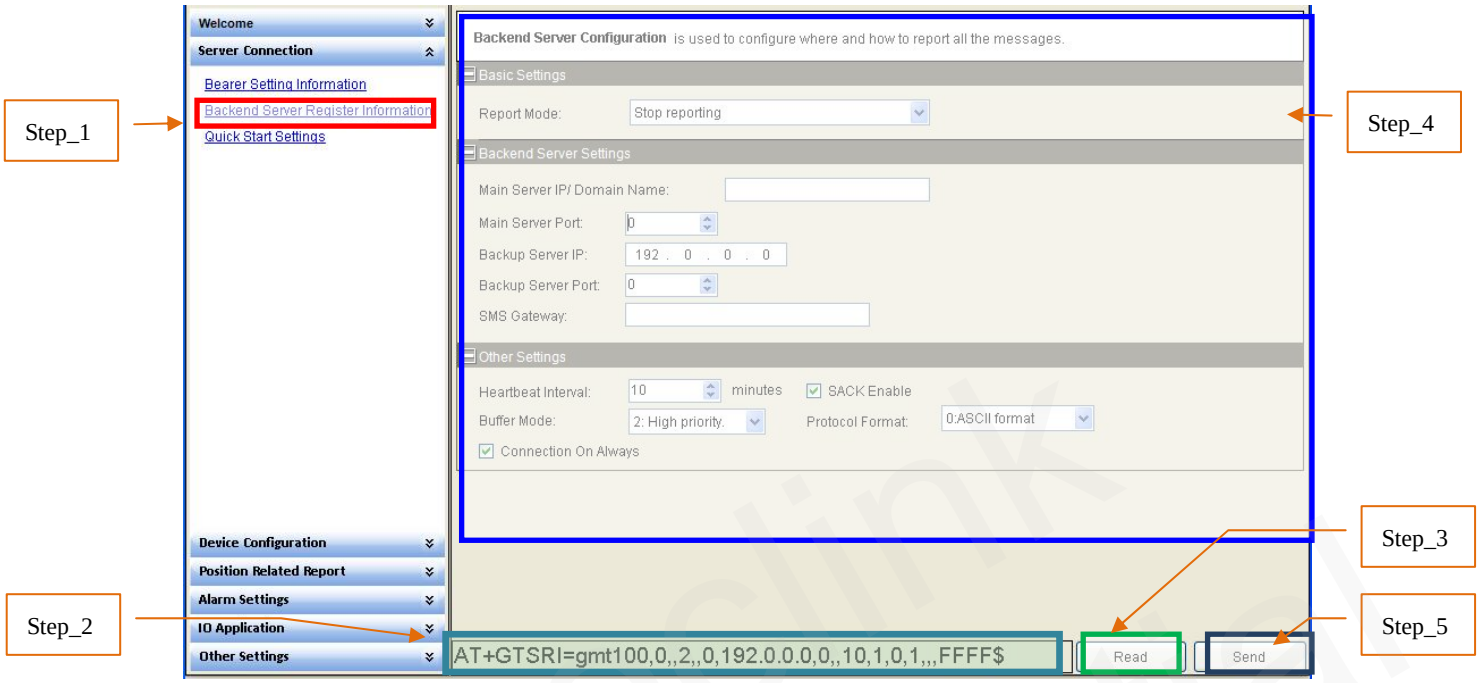
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set APN parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTBSI to GMT100.

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.

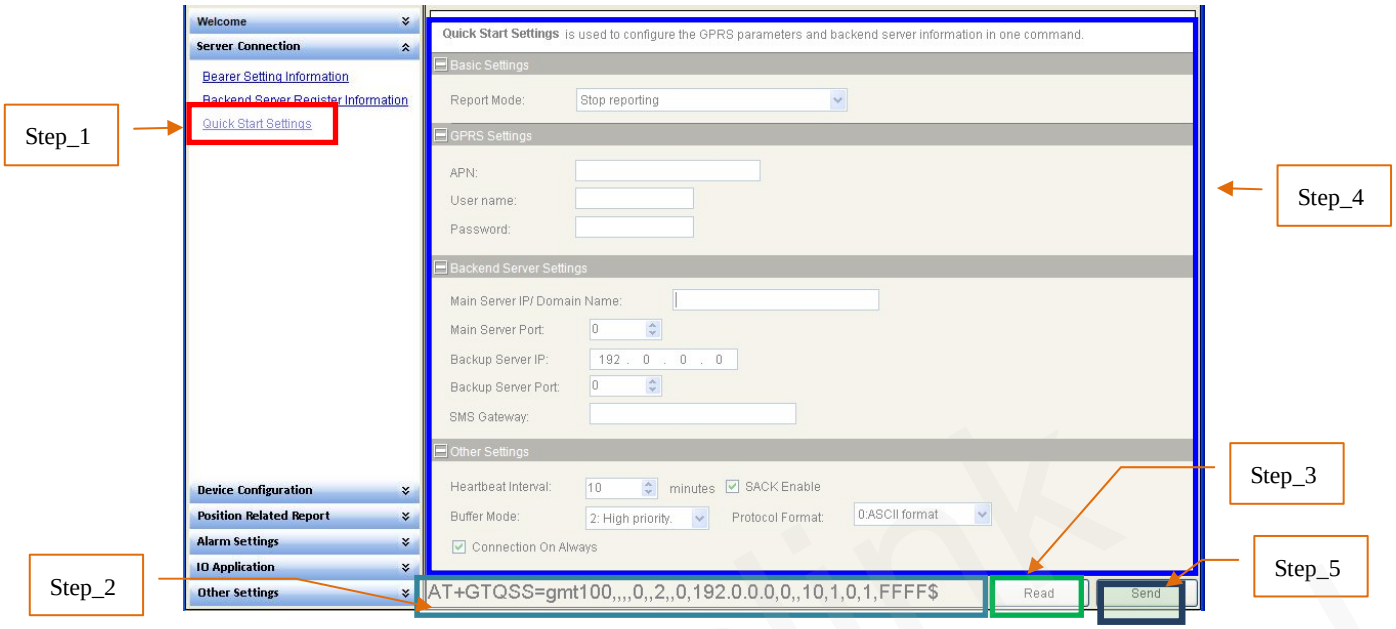
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set backend server information parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSRI to GMT100.

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.

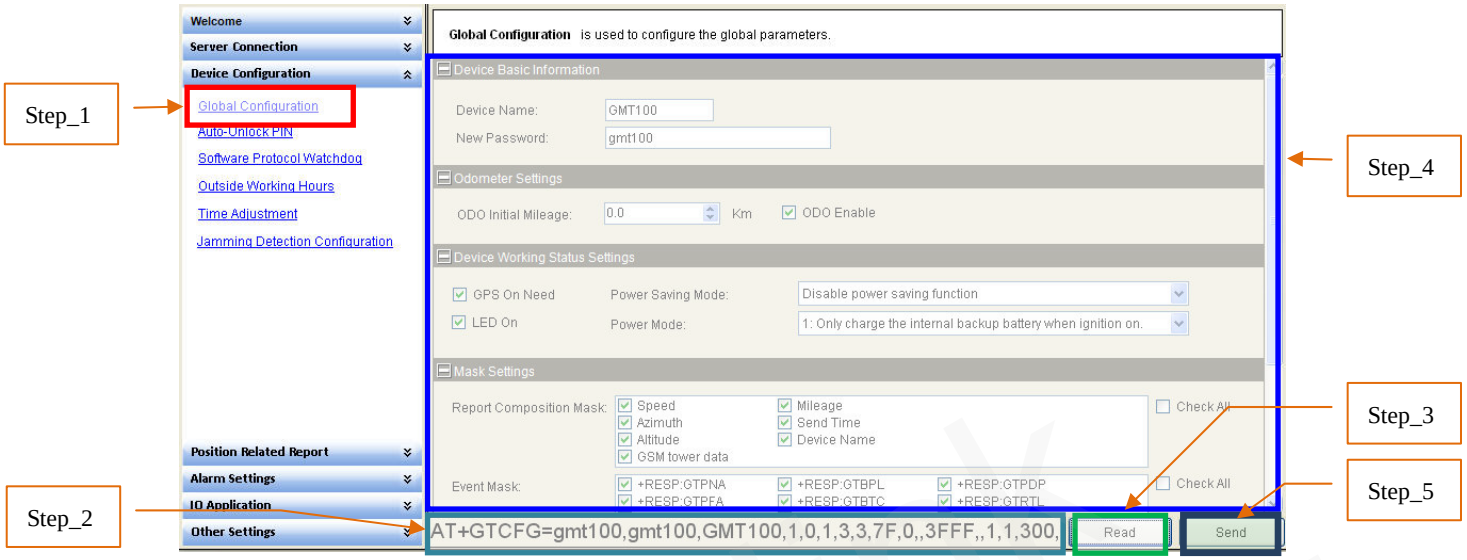
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

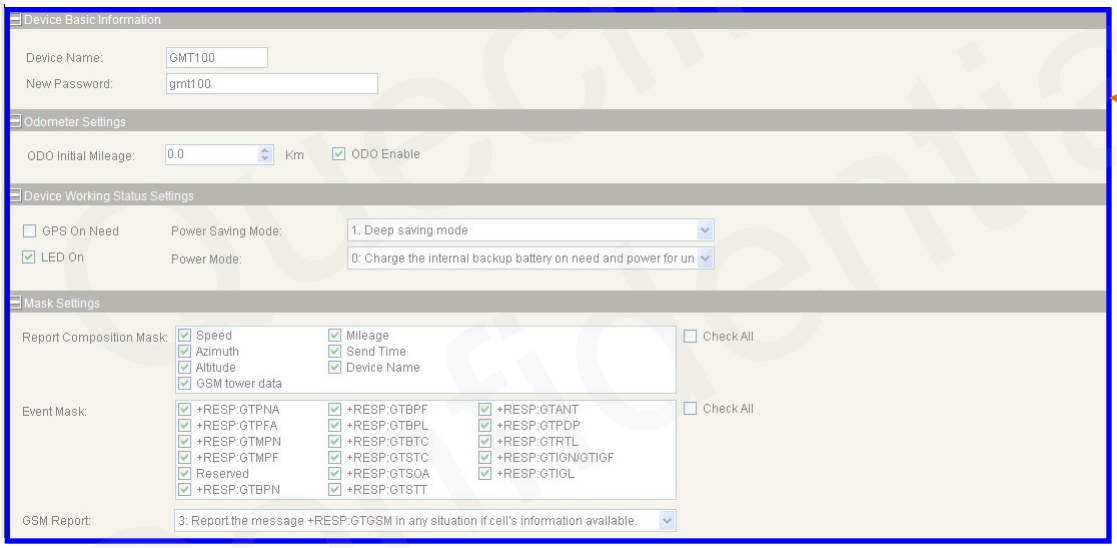
Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the GPRS and backend server information parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTQSS to GMT100.

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.

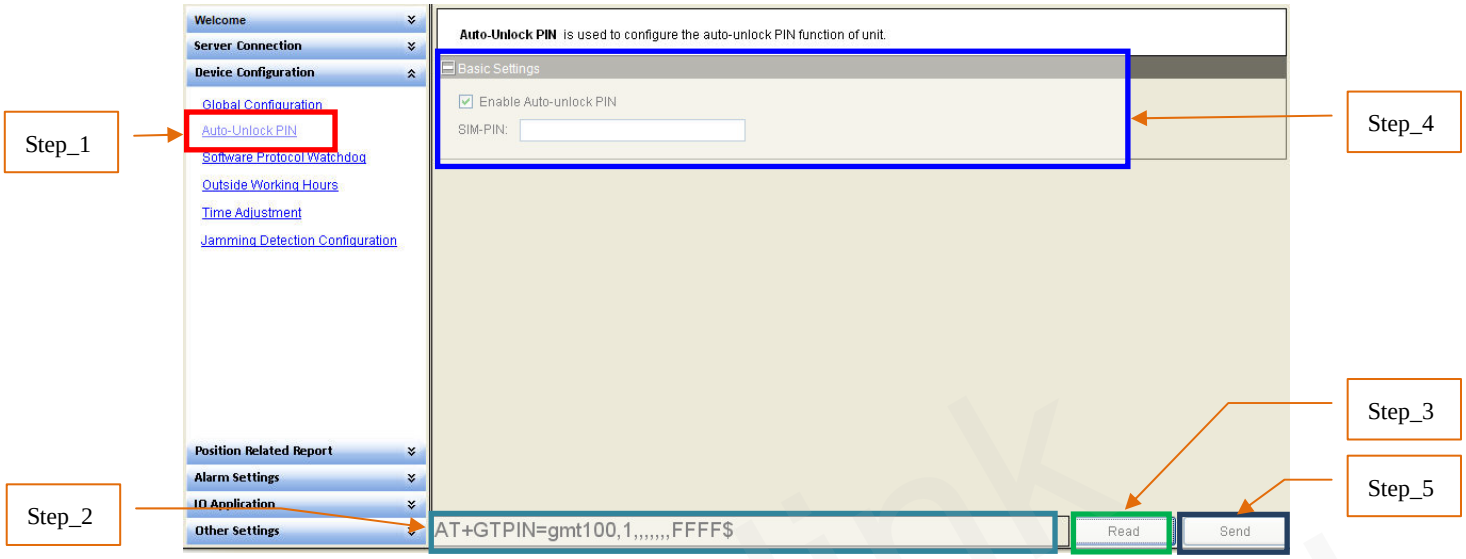
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the global parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTCFG to GMT100.

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.

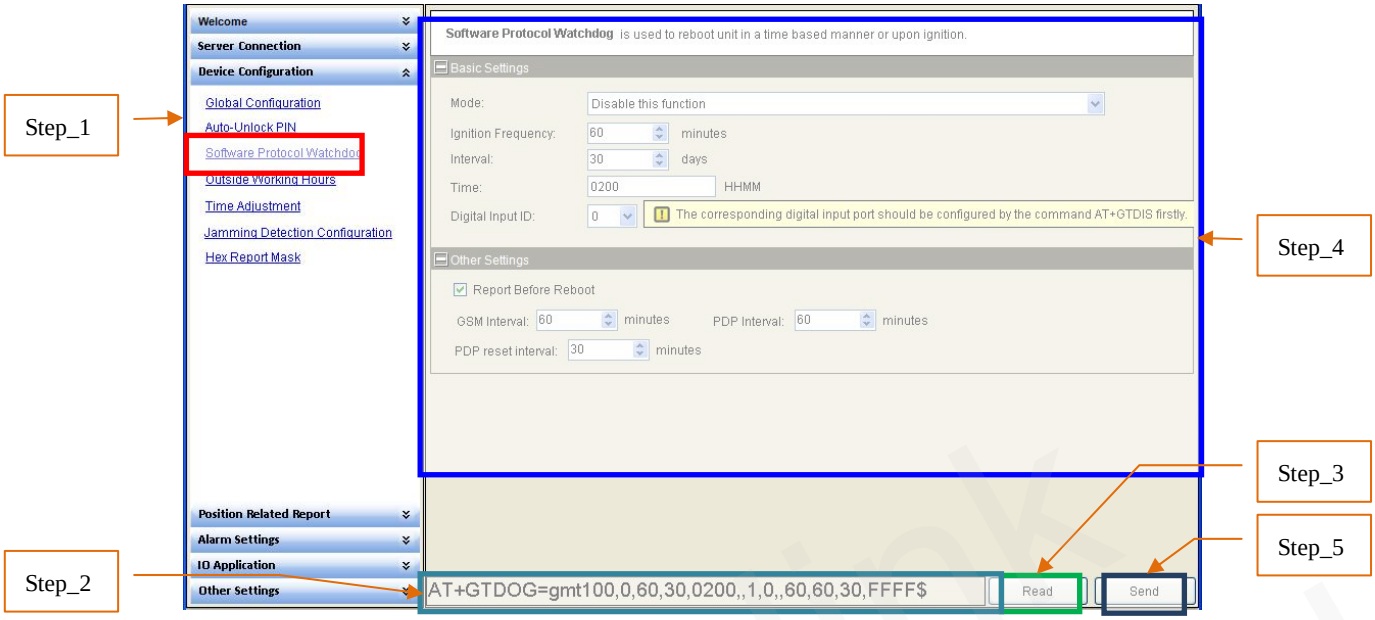
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the auto-unlock PIN parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTPIN to GMT100.

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.

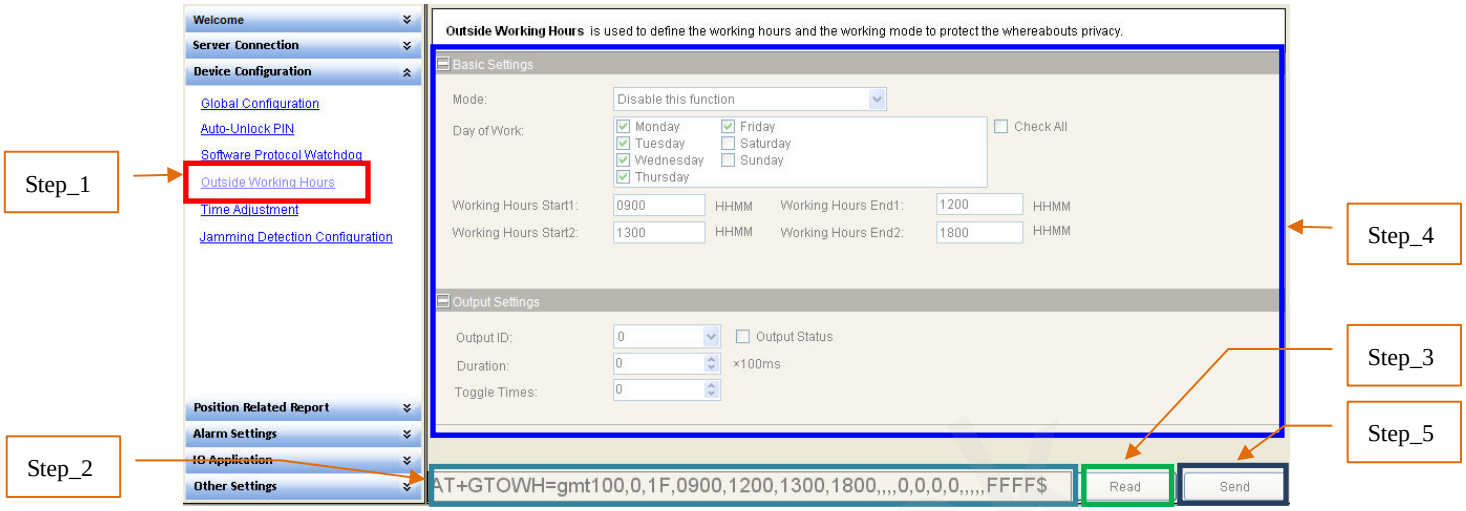
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the software protocol watchdog parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTDOG to GMT100.

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.

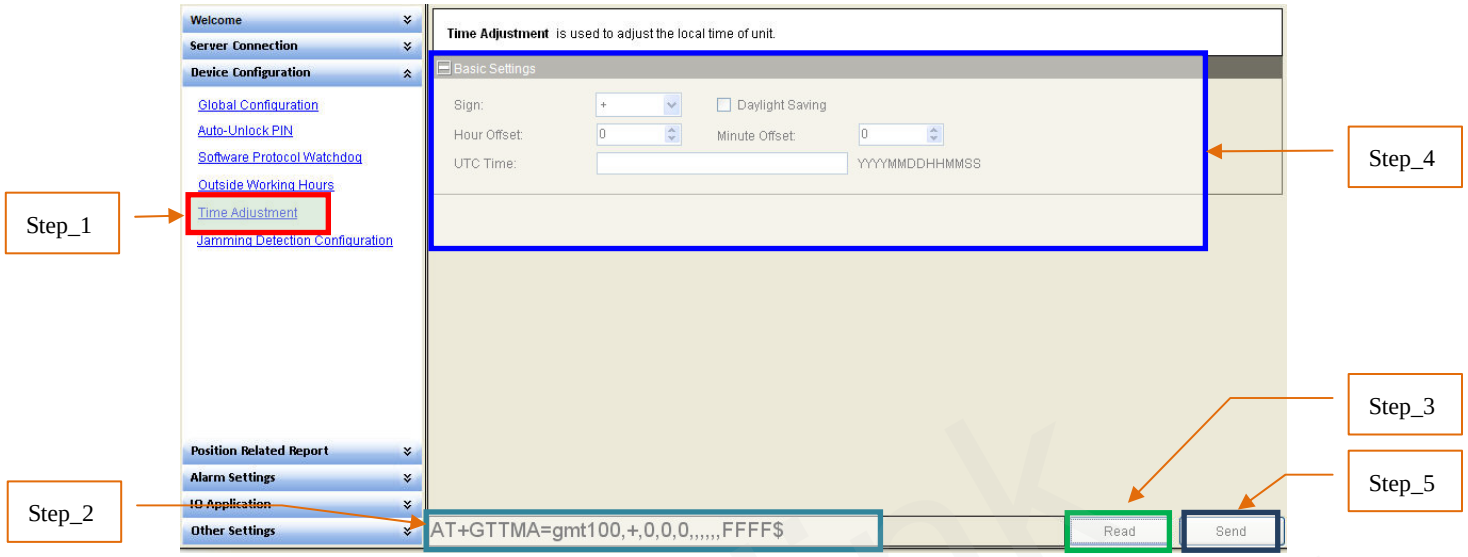
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the outside working hours parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTOWH to GMT100.

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.

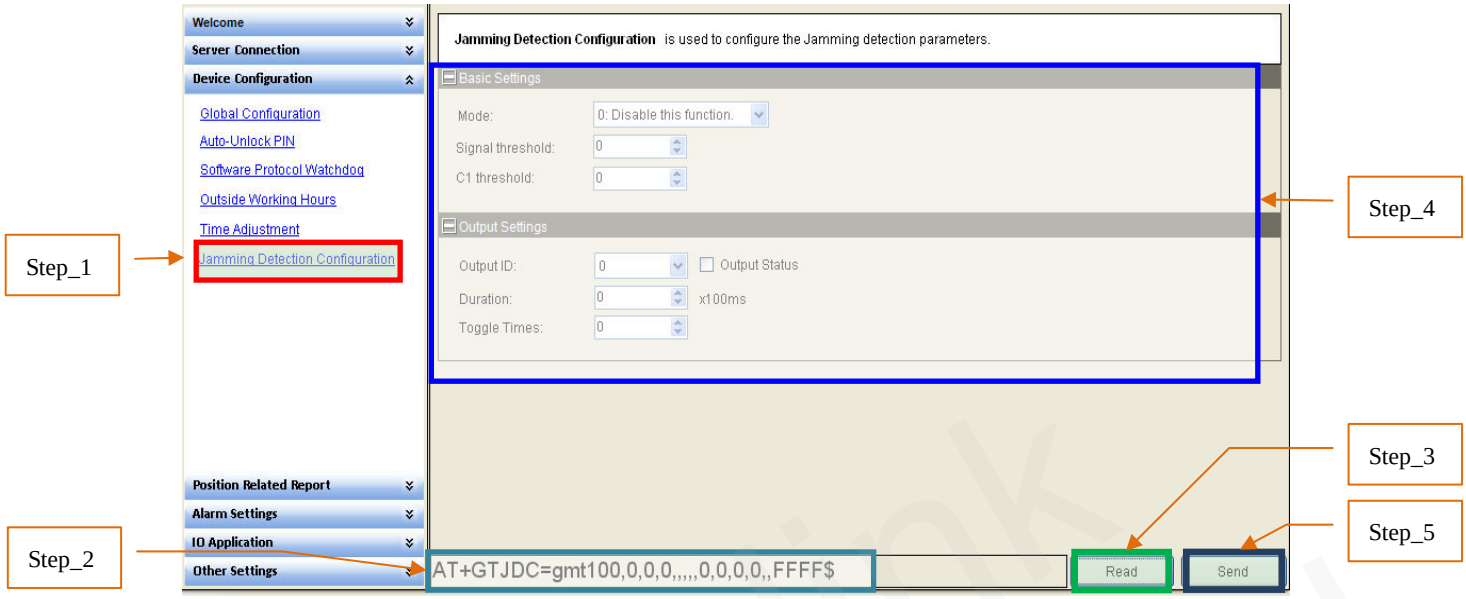
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the time adjustment parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTTMA to GMT100.

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.

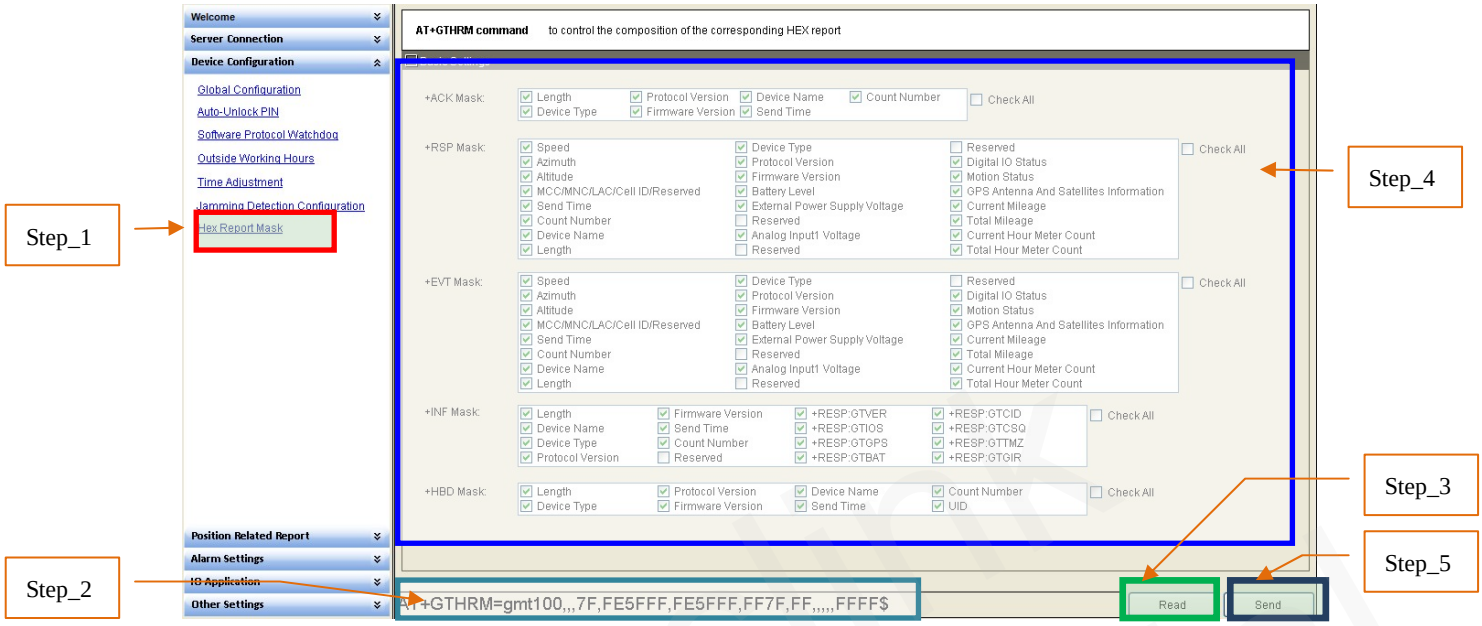
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the jamming detection parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTJDC to GMT100.

3.2.10. Set the parameters of Hex Report Mask



Step_1: Select "*Hex Report Mask*", after that the parameters of GTHRM show in Command Operation Space.

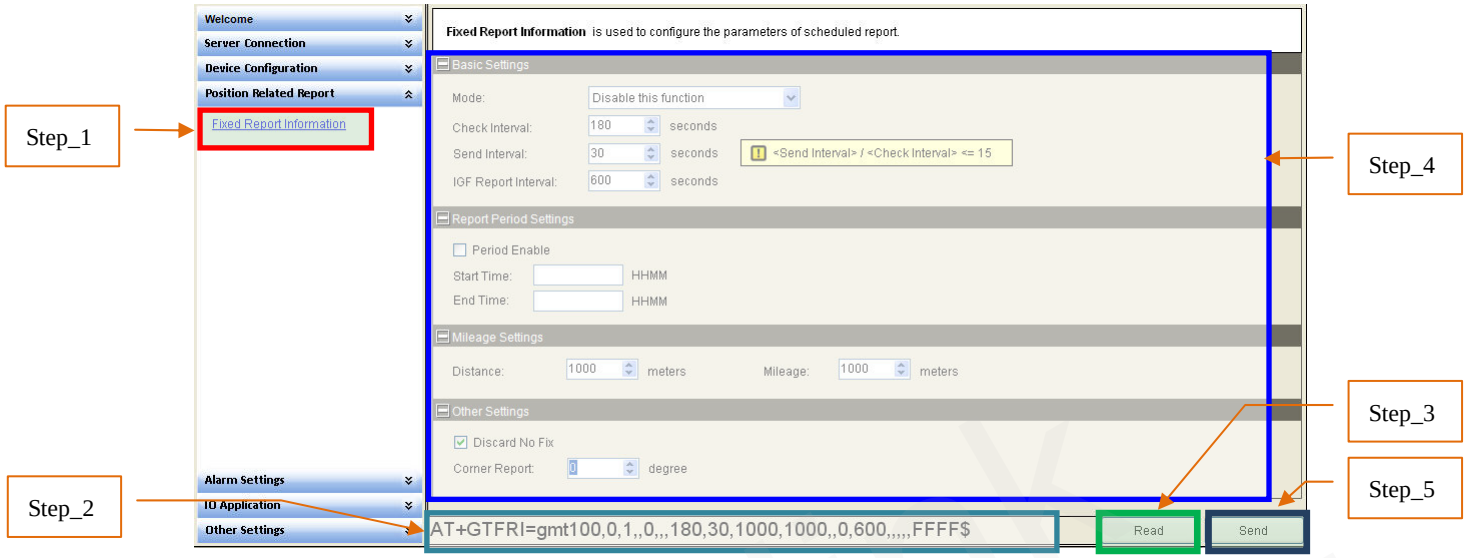
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Hex Report Mask parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTHRM to GMT100.

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.

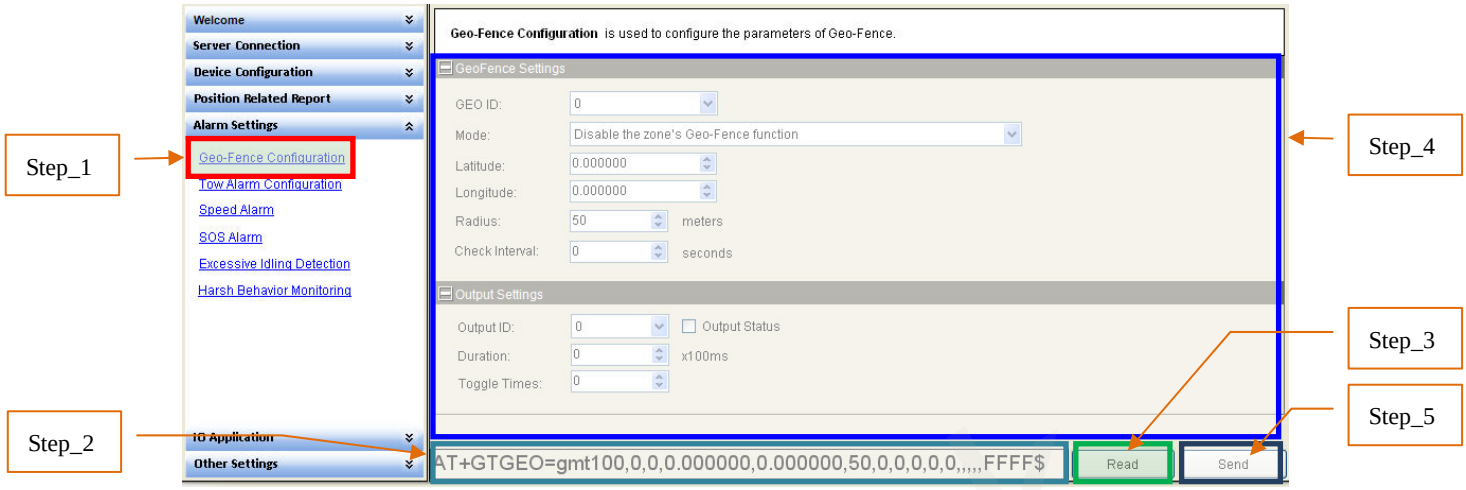
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the fixed report parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTFRI to GMT100.

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.

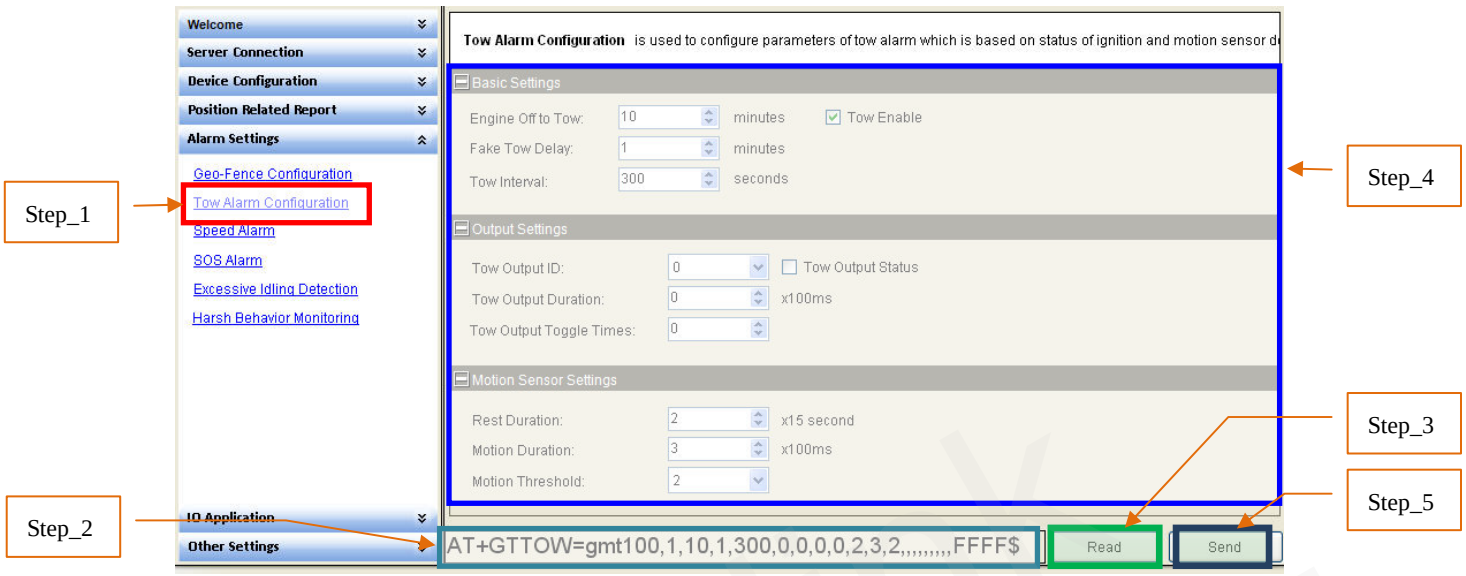
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Geo-Fence parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTGEO to GMT100.

3.2.13. Set the parameters of tow alarm configuration



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

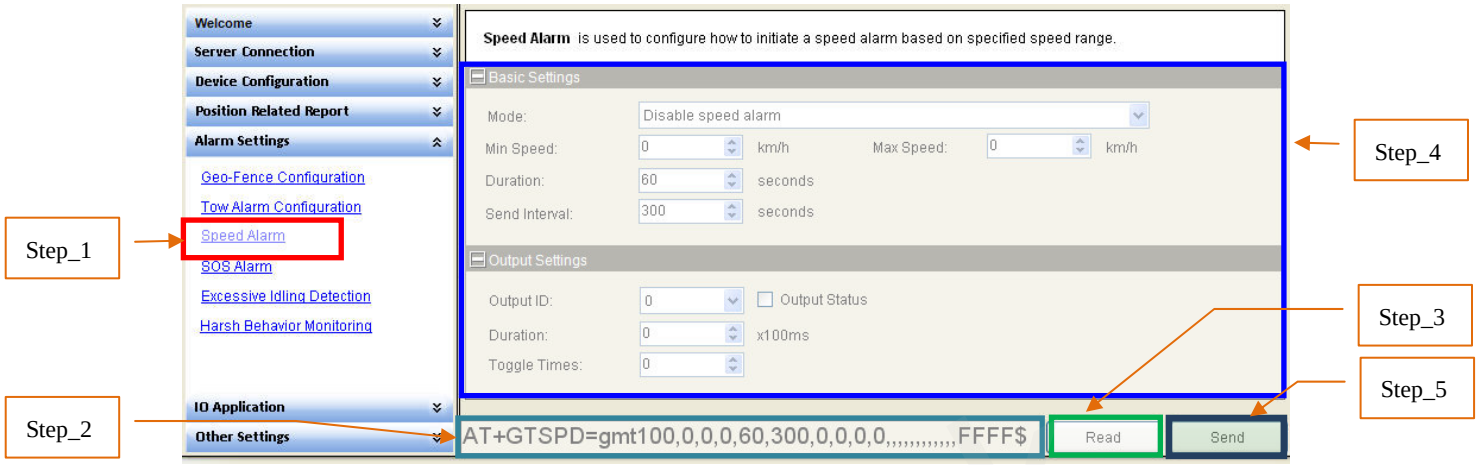
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the tow alarm parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTTOW to GMT100.

3.2.14. Set the parameters of speed alarm



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

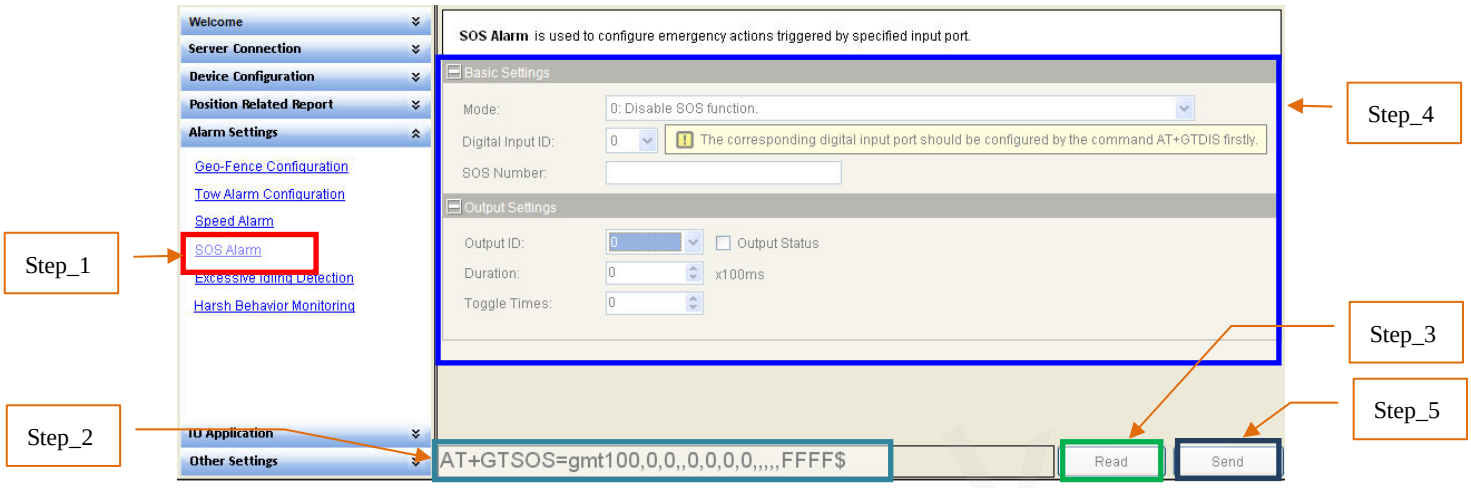
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the speed alarm parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSPD to GMT100.

3.2.15. Set the parameters of SOS function



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

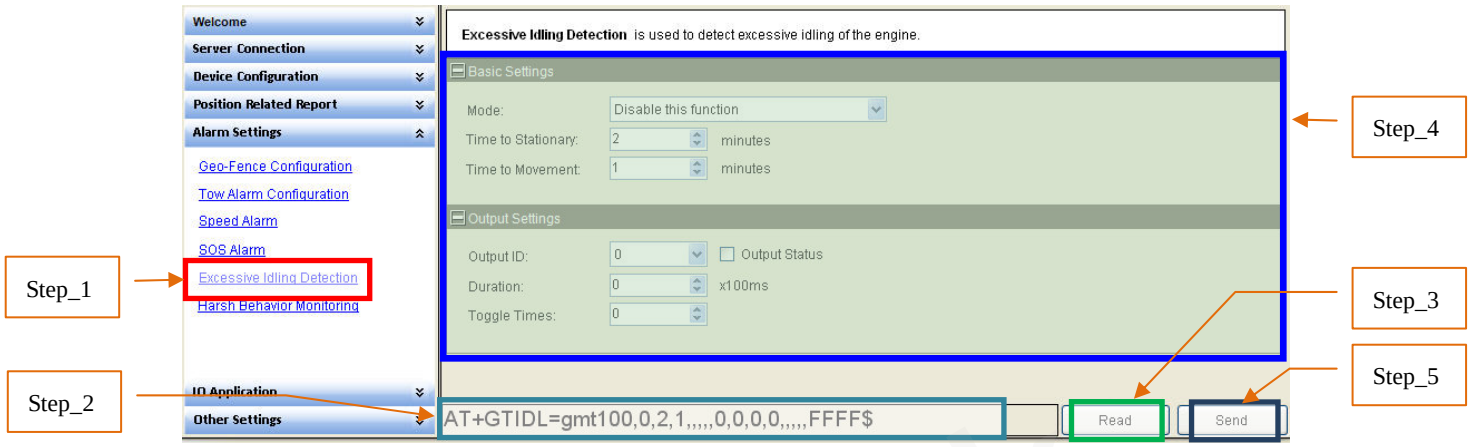
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the SOS alarm parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSOS to GMT100.

3.2.16. Set the parameters of excessive idling detection



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

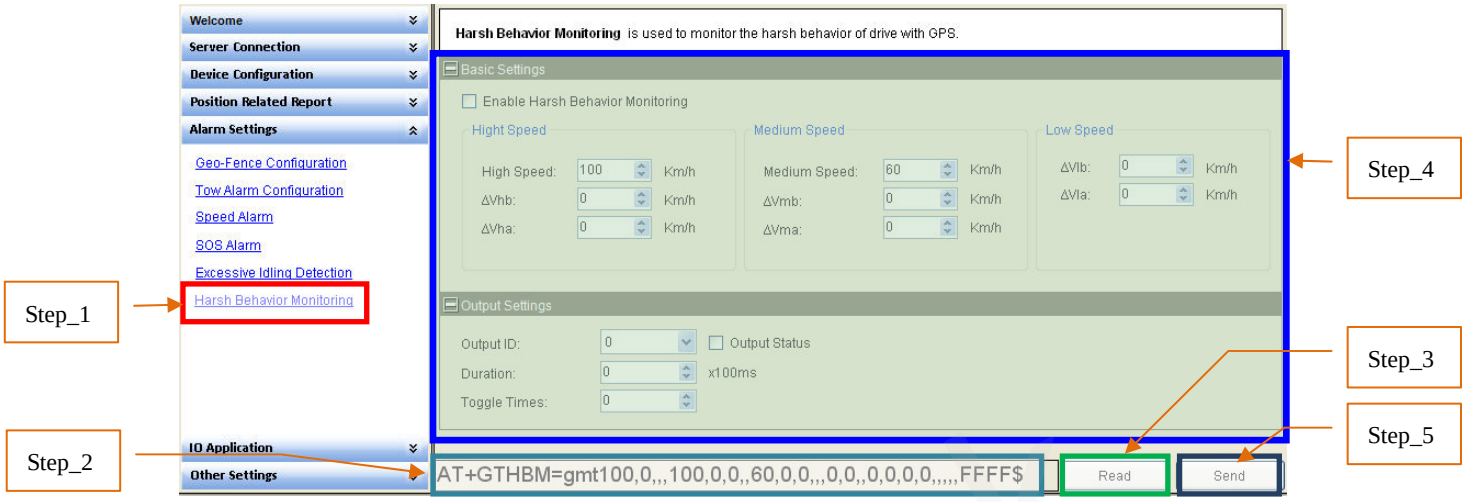
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the excessive idling parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTIDL to GMT100.

3.2.17. Set the parameters of harsh behavior monitoring



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

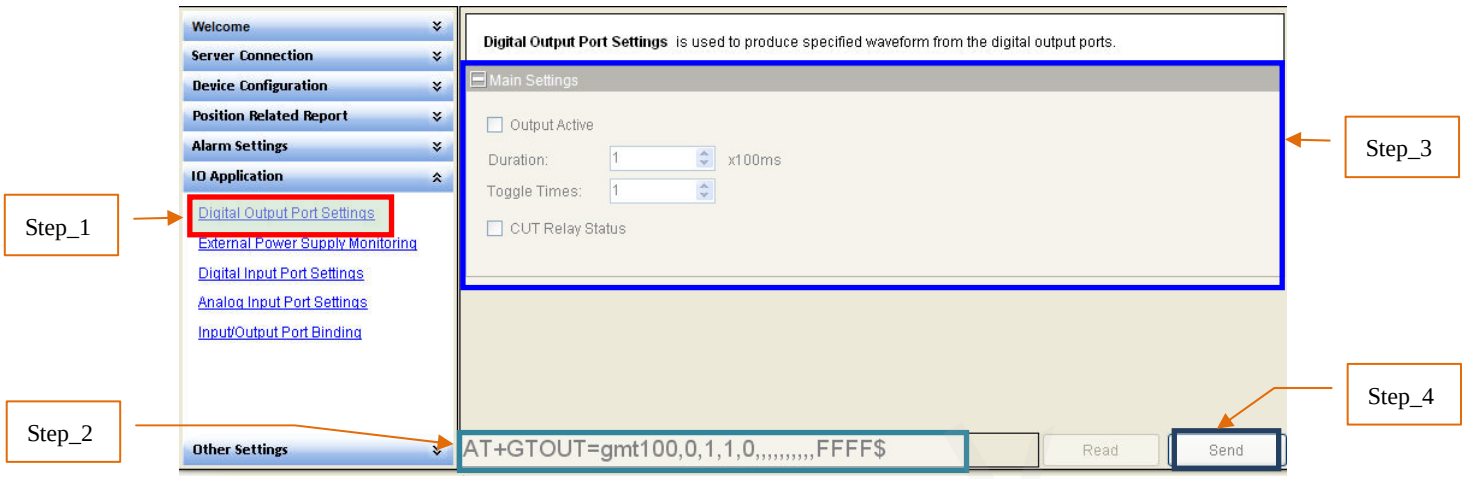
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the harsh behavior monitoring parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTHBM to GMT100.

3.2.18. Set the parameters of digital output



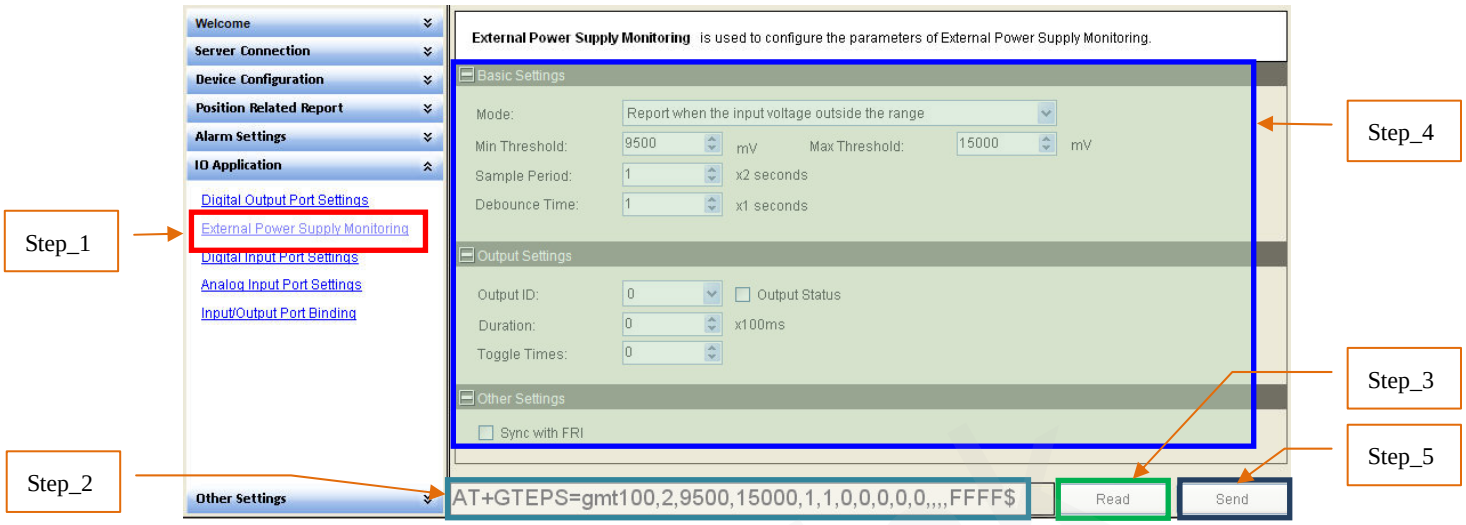
Step_1: Select "*Digital Output Port Settings*", after that the parameters of GTOUT show in Command Operation Space.

Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: Set the digital output parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_4: Click the "*Send*" button; download the parameters of GTOUT to GMT100.

3.2.19. 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.

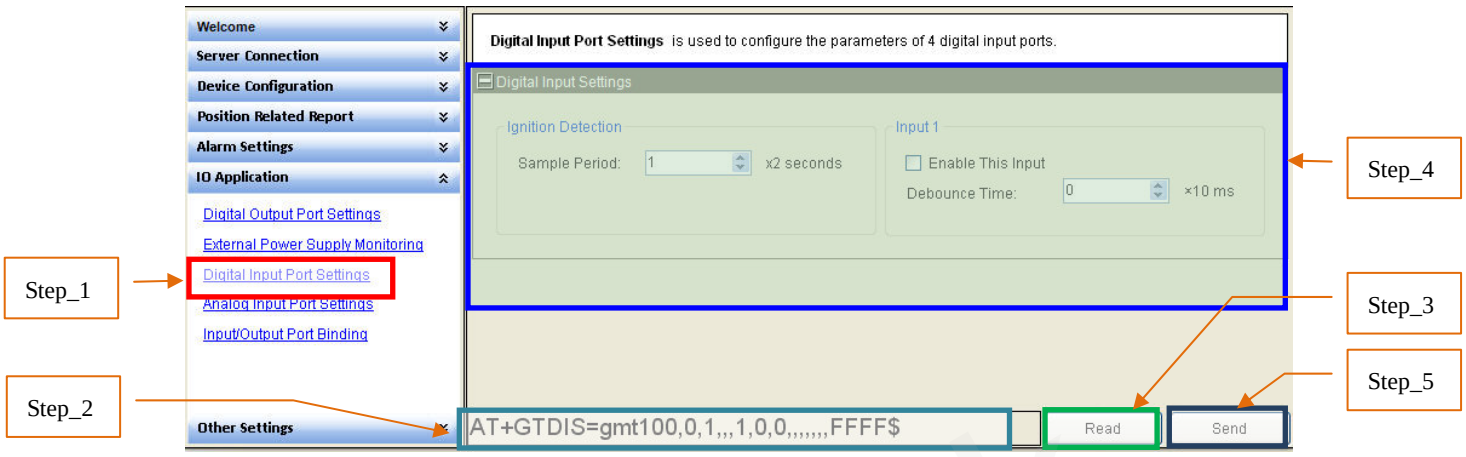
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the external power supply monitoring parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTEPS to GMT100.

3.2.20. 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.

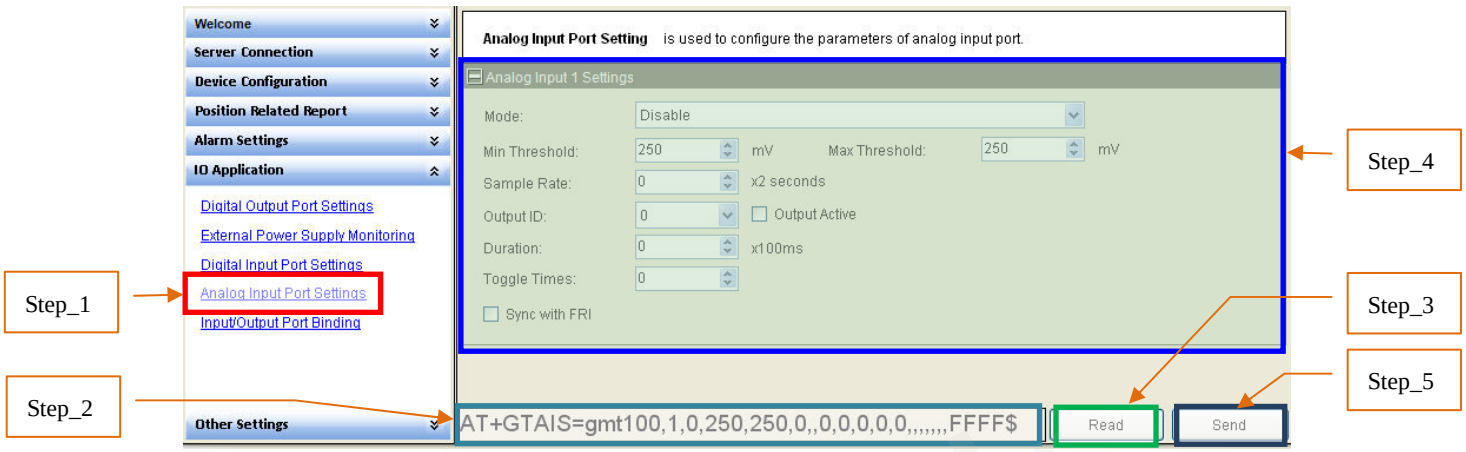
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Digital Input parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTDIS to GMT100.

3.2.21. 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.

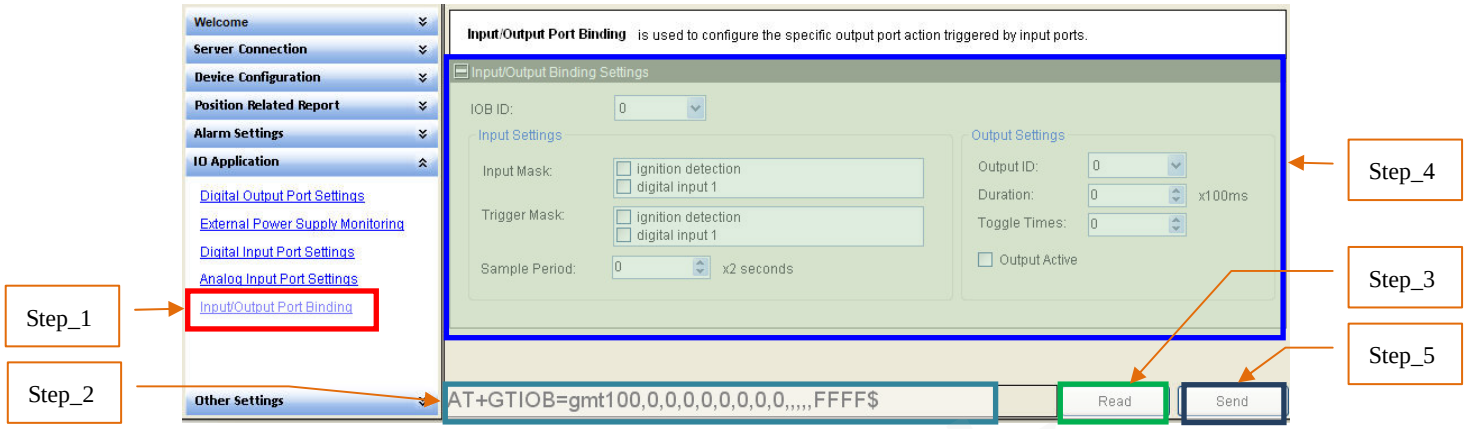
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Analog Input parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTAIS to GMT100.

3.2.22. 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.

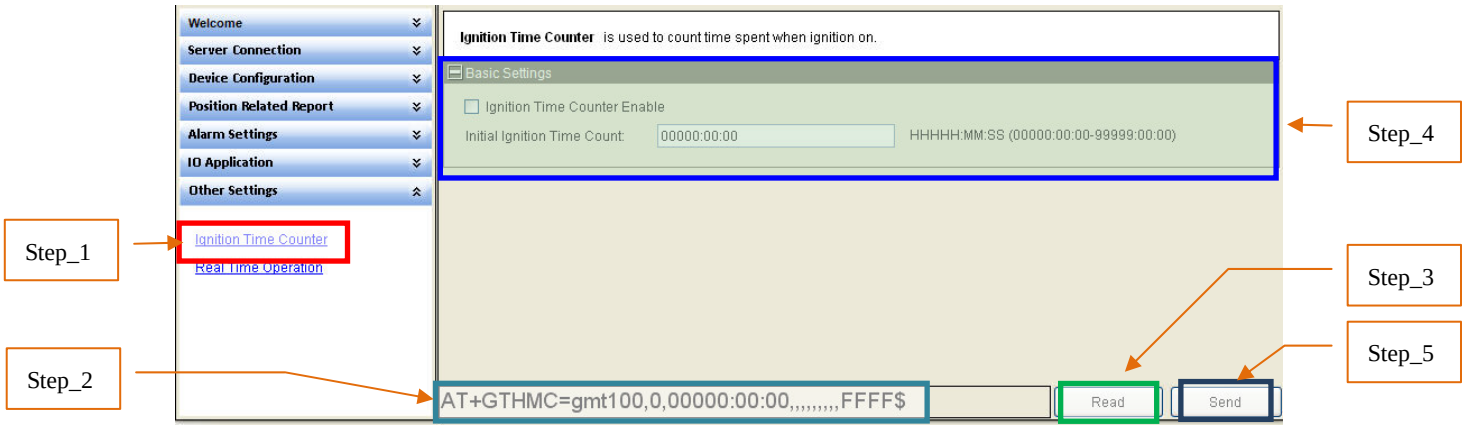
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Input/Output port parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTIOB to GMT100.

3.2.23. Set the parameters of Ignition Time counter



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

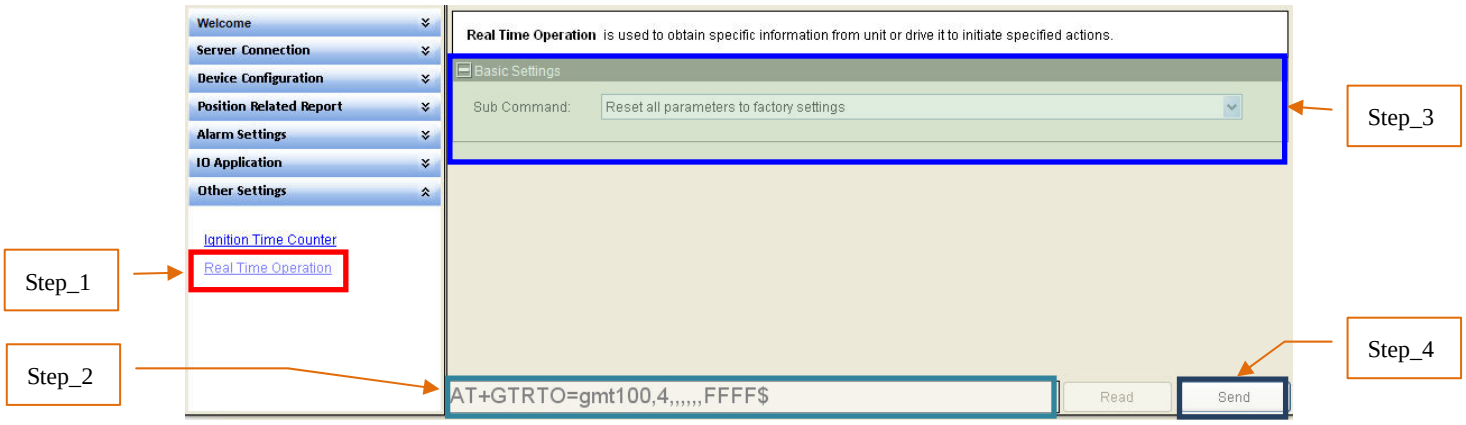
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Ignition Time Counter parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTHMC to GMT100.

3.2.24. Set the parameters of real time operation



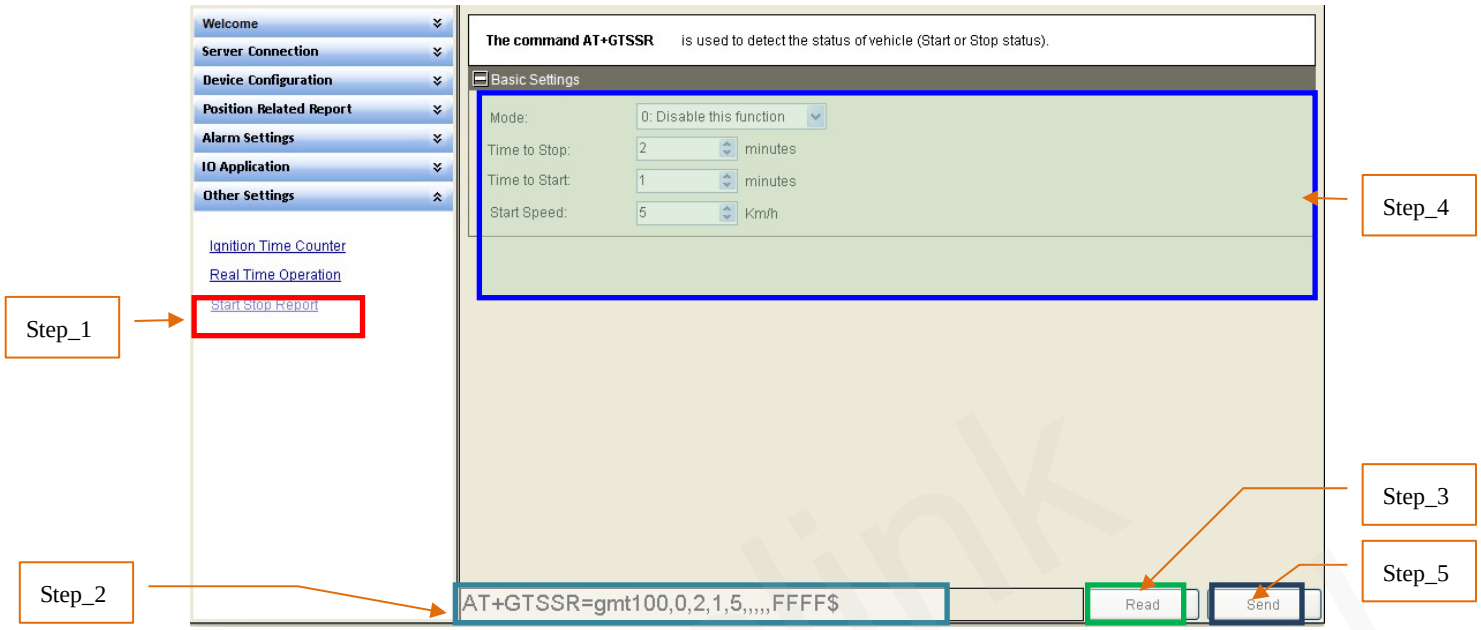
Step_1: Select "*Real Time Operation*", after that the parameters of GTRTO show in Command Operation Space.

Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: Set the real time operation parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_4: Click the "*Send*" button; download the parameters of GTRTO to GMT100.

3.2.25. Set the parameters of Start Stop Report



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

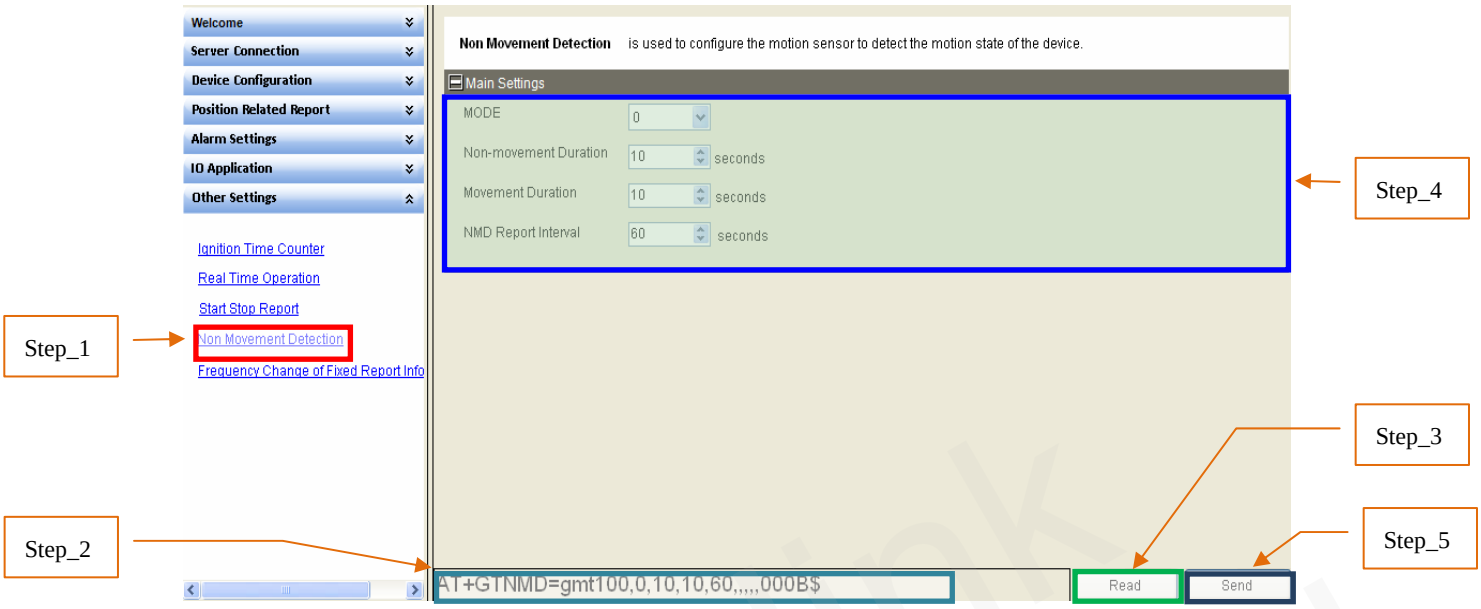
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Start Stop Report parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTSSR to GMT100.

3.2.26. Set the parameters of non movement detection



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

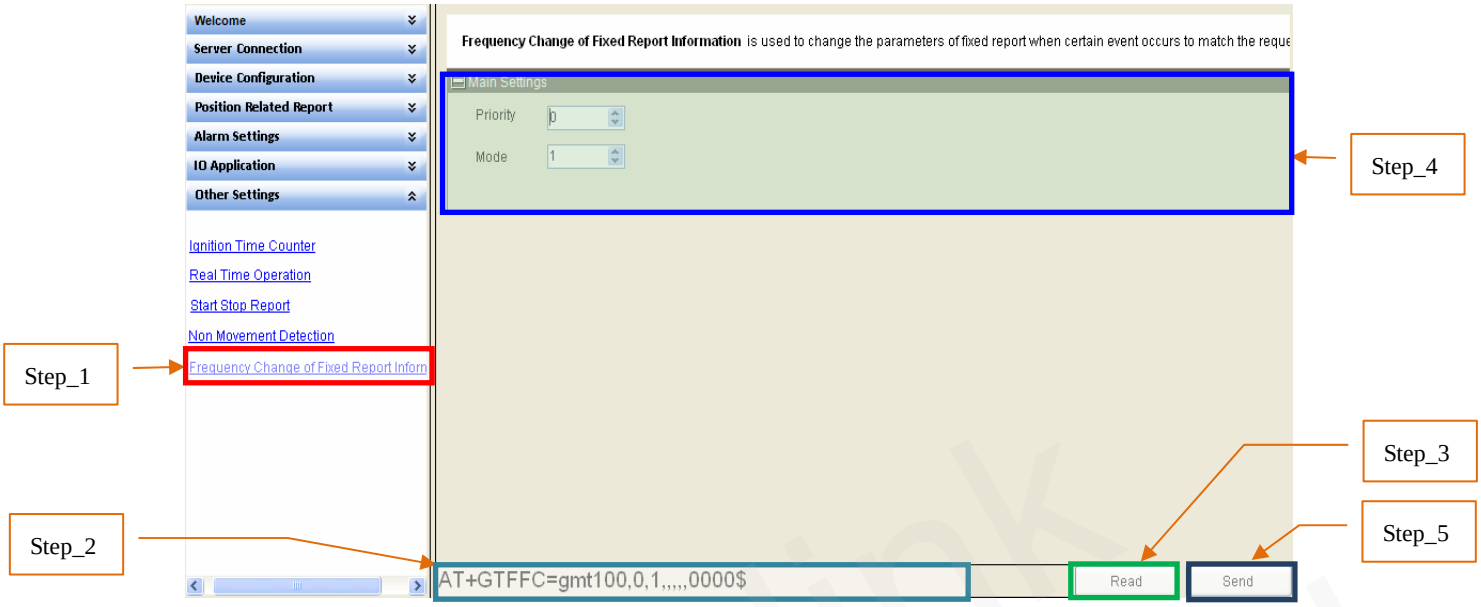
Step_2: The command message which shall be sent to GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Non Movement Detection parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

Step_5: Click the "*Send*" button; download the parameters of GTNMD to GMT100.

3.2.27. 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 GMT100 will be generated based on input and displayed here. Please note this command message can also be sent to GMT100 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GMT100 and edit based on them.

Step_4: Set the Frequency Change of Fixed Report Information parameters. Please refer to "*GMT100 @Track Air Interface Protocol*" for the meaning of each parameter.

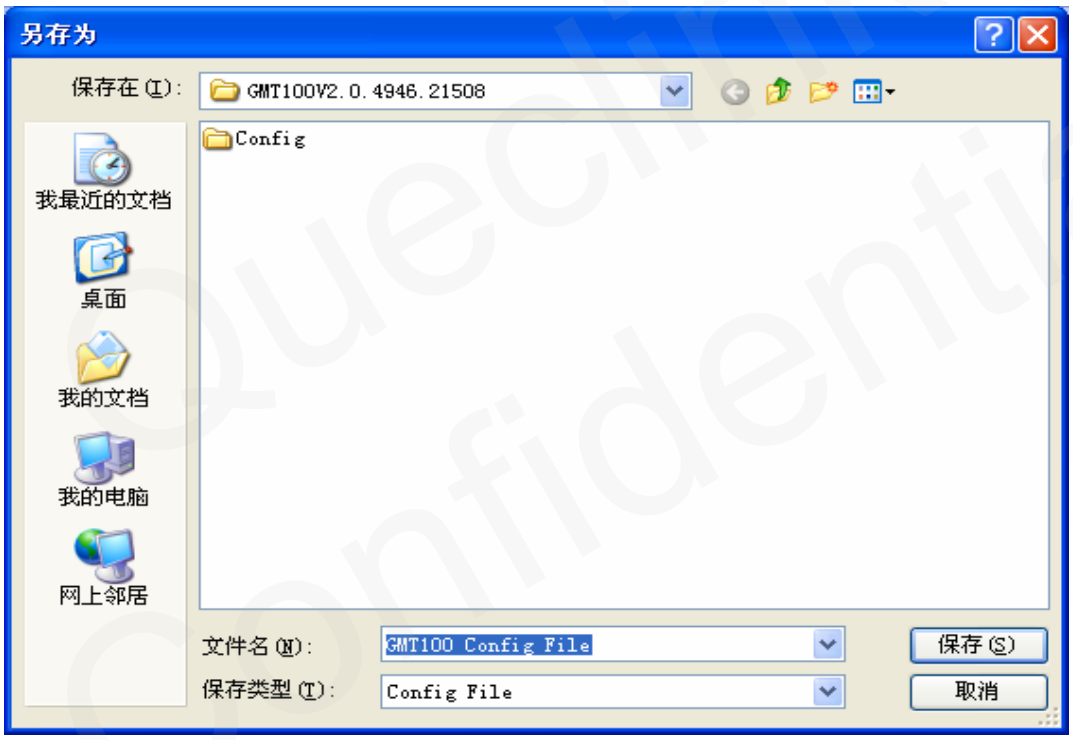
Step_5: Click the "*Send*" button; download the parameters of GTFFC to GMT100

3.3. Read/Save All Configuration

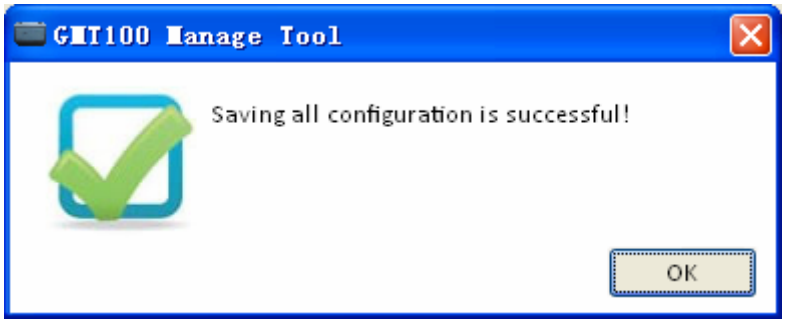
Step_1: It is recommended to read all configurations from device before save the configuration. Select "*Read All Configuration*"→"*Read From Device*".

Step_2: After reading successfully, click "*Save All Configuration*" in toolbar.

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

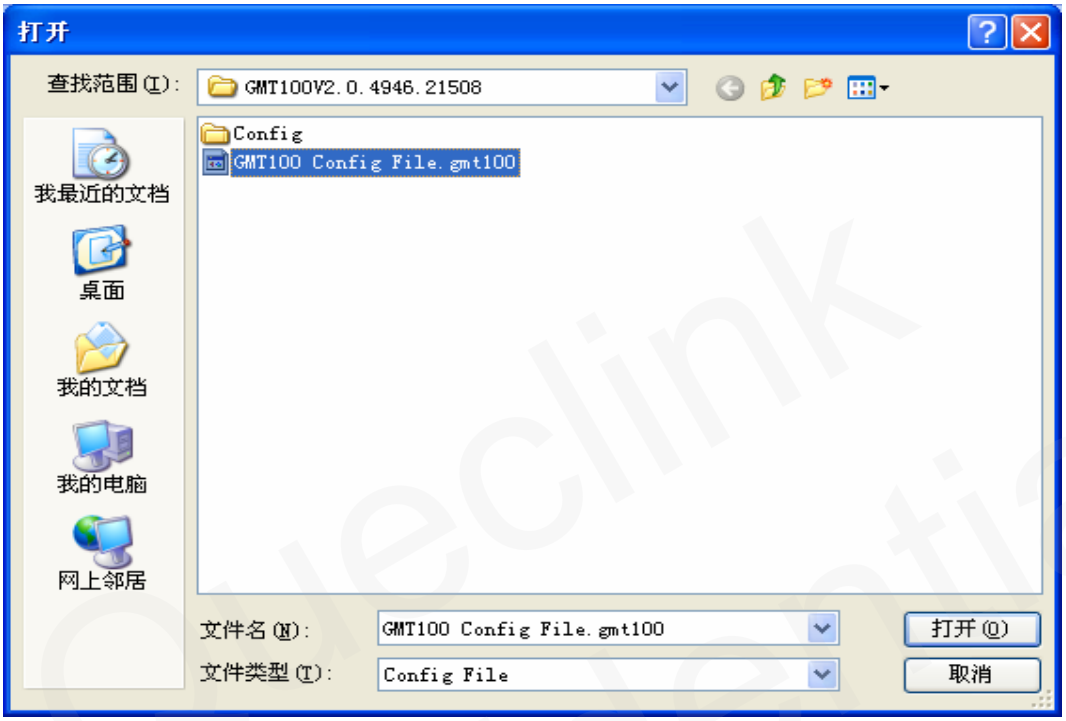


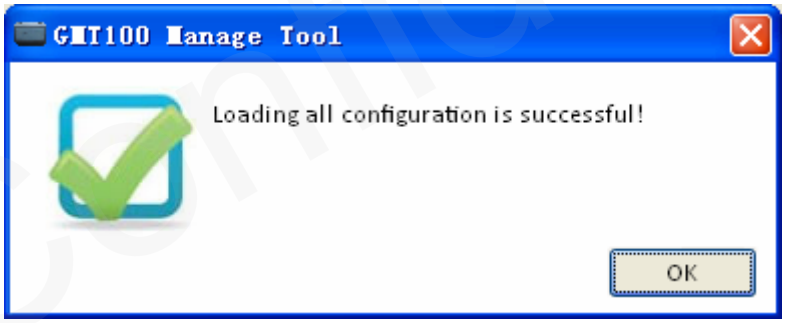
Step_4: Save successfully.



3.4. Load/Send All Configuration

Step_1: Before send all configurations, please load the configuration file or set all parameters in commands. To load configuration file, please select "*Read All Configuration*" →" *Load Configurations From File*". And then select the configuration file you needed.





Step_2: You can set the parameters in commands base on the configuration file, and then click "*Send All Configuration*" in toolbar.

Step_3: Manage Tool will send all commands to device.