

GT301 Manage Tool User Guide

GSM/GPRS/GNSS Tracker

TRACGT301MT001

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0. Revision History

Revision	Date	Author	Description of Change
1.00	2016-09-13	Ida Li	Initial.
1.01	2017-12-14	Rina Xia	Added AT+GTWLT to set white call list table.
1.02	2018-11-19	Rina Xia	Updated MT version number.

1. GT301 Manage Setup Wizard

GT301 Manage Tool is PC software which can be used to configure GT301 through Data_Cable_M. It is easy for the backend server developers to configure GT301 with the Manage Tool, which has friendly user interface. The correct command messages sent to GT301 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 GT301 before sale. But it is strongly recommended to establish a backend server and control GT301 by SMS or GPRS. Please refer to "GT301 @Track Air Interface Protocol 2nd generation" for details.

Before using the Manage Tool, please find "PL2303_Prolific_DriverInstaller_v1417.zip" in developer suite and install the drive for PL2303. After that, a new COM port can be found in the PC system. Then please follow the steps below:

1. Power on GT301.
2. Connect GT301 to PC with Data_Cable_M.
3. Run "Queclink_GT301_Manage_Tool_V1.06.exe".

1.1. System Requirements

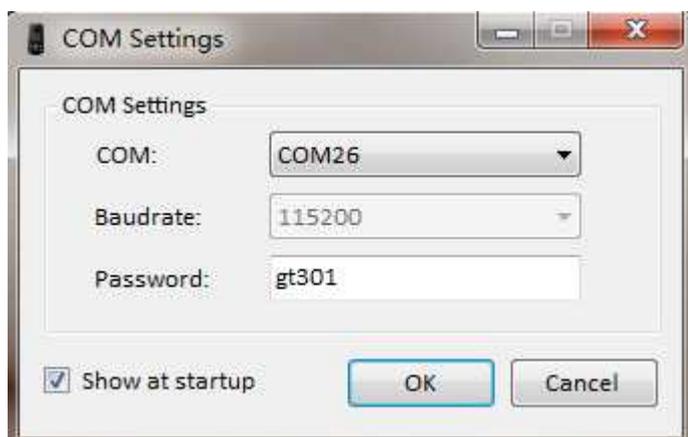
In order for this Manage Tool to run on your computer, you must use it in operating system below:

- ◆ 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:

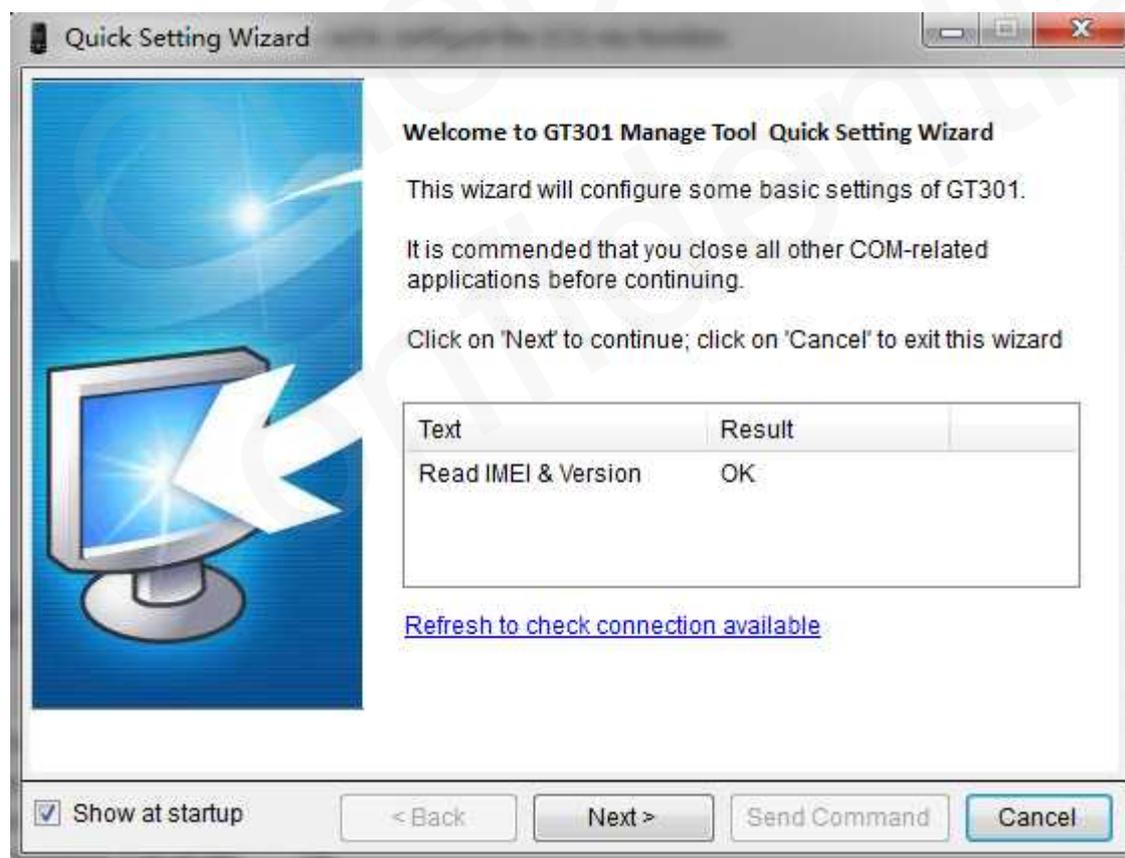
- ◆ Microsoft .NET Framework 2.0 or higher

1.2. COM Setting



Select the COM port and baud rate, and input the password "GT301". Then the main window will be displayed.

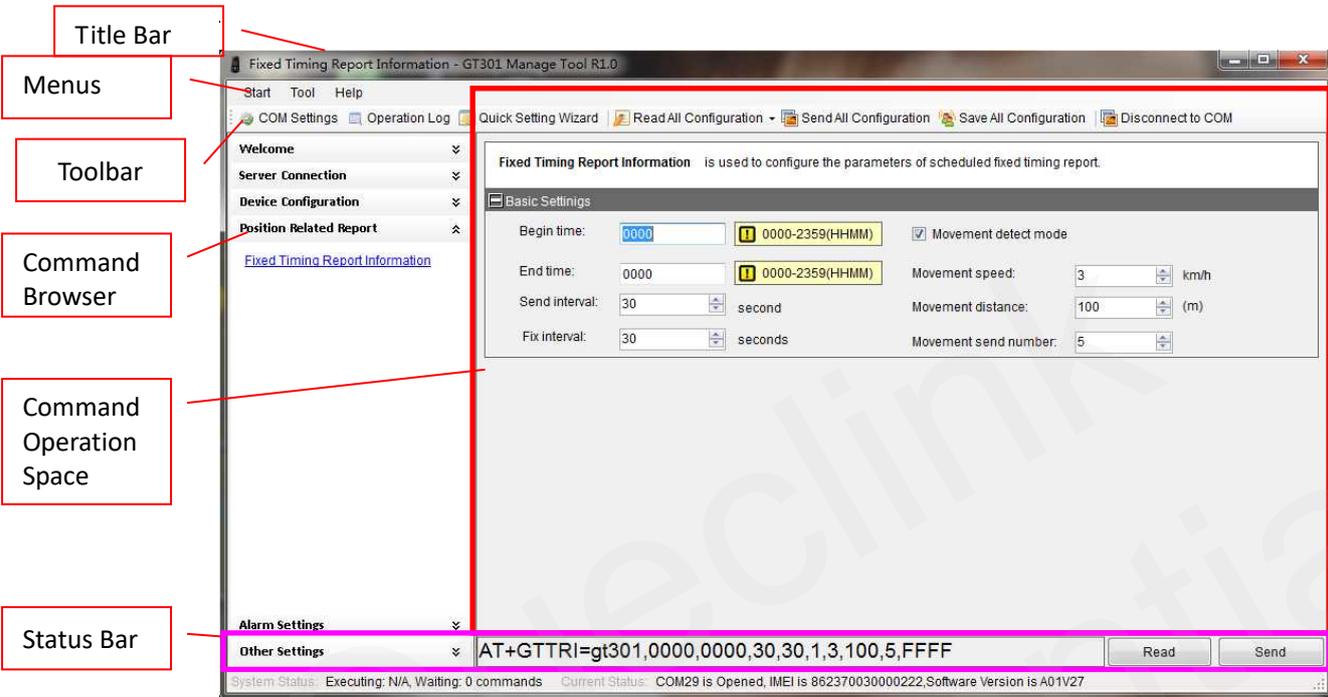
1.3. Quick Setting Wizard



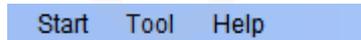
The Quick Setting Wizard provides basic settings for the device. If you want to use more functions of GT301, please change to enter professional setting mode.

Before you enter Quick Setting Wizard, you must make sure the COM connection is OK. Please refer to Chapter 3.1 for the details of setting with Quick Setting Wizard.

1.4. Professional Setting Windows



1.4.1. Menus



There are "Start", "Tool" and "Help" menu in menus.

1.4.1.1. Start Menu



Start menu includes "COM Settings".

[COM Setting]: It is used to set the COM information and password. For Setting details, please refer to Chapter 1.2.

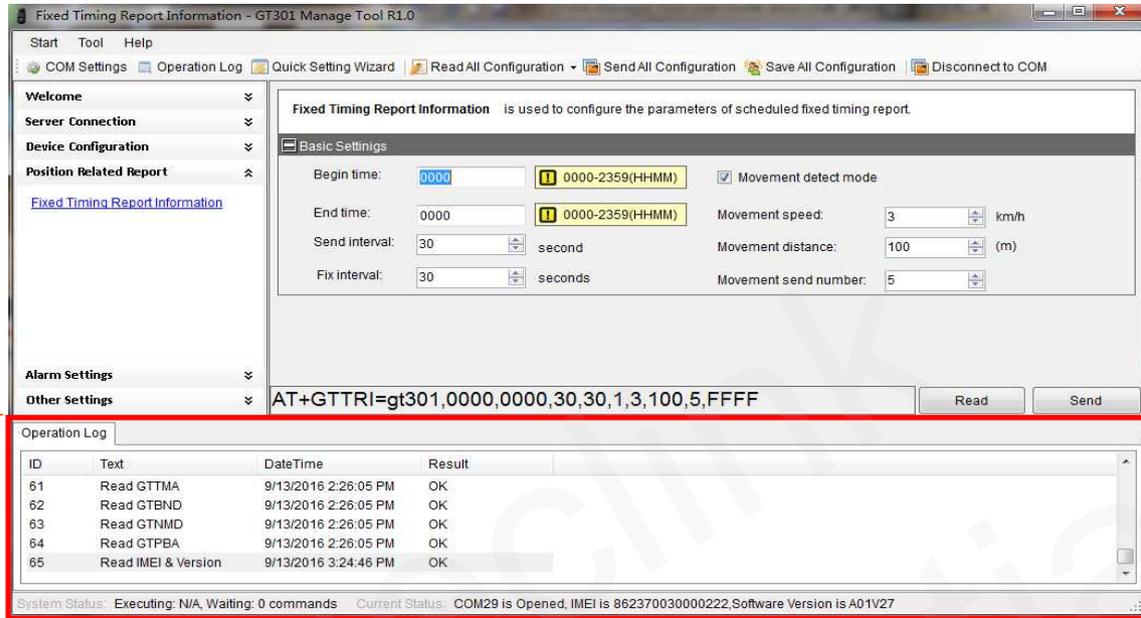
1.4.1.2. Tool Menu



Tool menu includes "Quick Setting Wizard", "Operation Log", and "Options" settings.

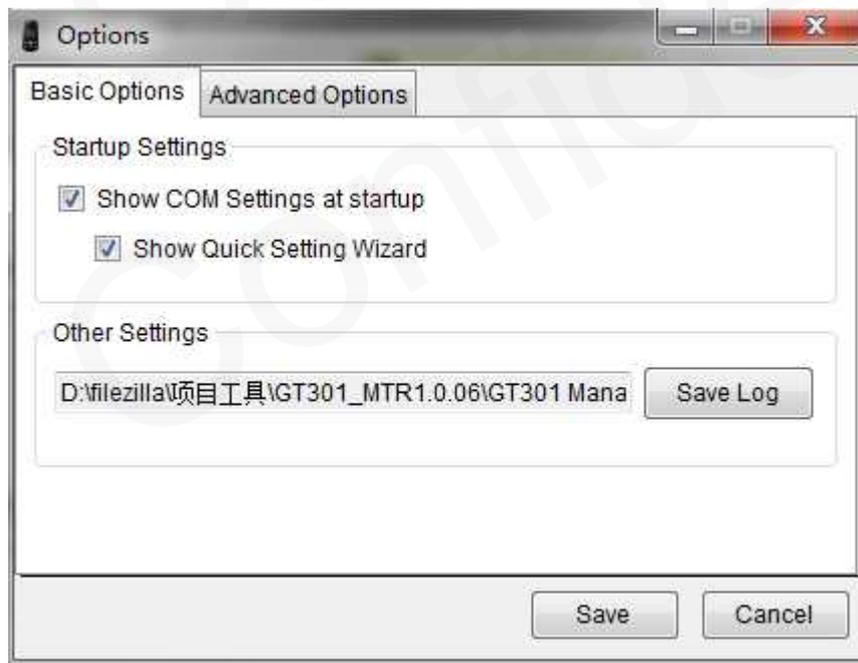
[Quick Setting Wizard]: It is used to open Quick Setting Wizard directly. Please refer to Chapter 2.1 for details.

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



[Options]: It is used to configure the basic settings of the Manage Tool.

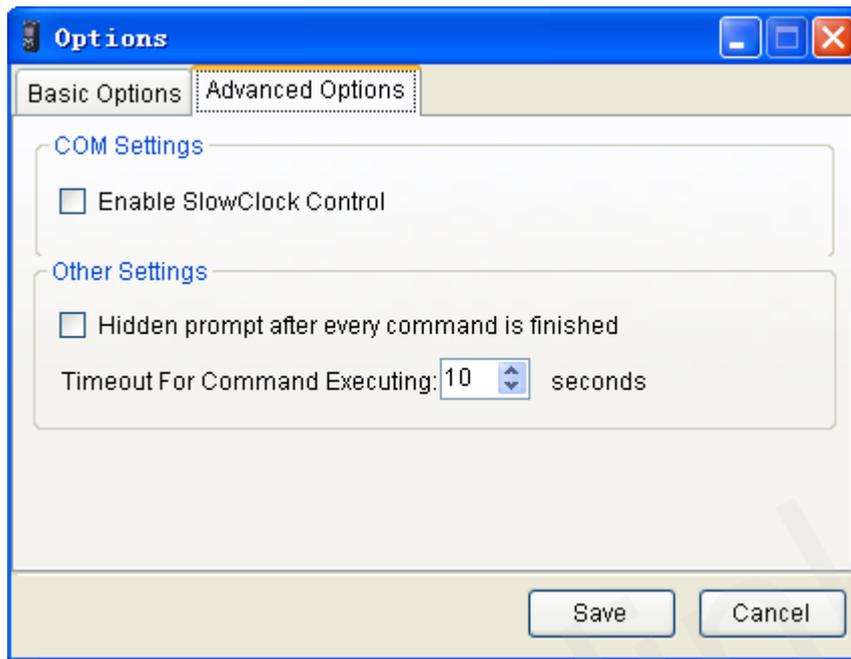
“Basic Options” includes startup setting options and log save option.



“Advanced Options” includes COM settings and other settings.

COM Settings is used to configure COM settings. It is recommended to use default settings for

these settings.



1.4.1.3.Help Menu

[About]: Select “About”. Then the following pop-up window will be displayed.



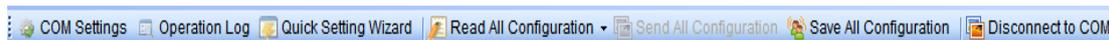
“Manage Tool Version” indicates the version of this Manage Tool.

“Support Version” indicates the firmware which this Manage Tool is used for.

“Device Version” indicates the firmware which connects to PC. It is recommended to use the same version as Support Version. If Support Version and Device Version are different, the new feature(s) of the device can not be used in this tool.

1.4.2.Toolbar

It includes “COM Setting”, “Operation Log”, “Quick Setting Wizard”, “Real All Configuration”, “Send All Configuration”, “Save All Configuration”, and “Connect/Disconnect to COM”.



[COM Setting]: It is used to set the COM information and password. For Setting details, please refer to Chapter 1.2.

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

[Quick Setting Wizard]: It is used to open Quick Setting Wizard directly. Please refer to Chapter 2.1 for details.

[Read All Configuration]: It includes “Read From Device” and “Load Configuration From File”



“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 COM manually.

1.4.3. Command Browser and Command Operation Space

This area is mainly used to read and set parameters of the device.

1.4.3.1. Command Brower

Command Brower divides all @Track protocol commands into several parts. Click Function in command Brower, parameters of this command will be shown in Command Operation Space.

Command Brower	Function Description	Related Command
Server Connection	Backend Server Registration Information	GTSRI
Device Configuration	Basic Equipment Information	GTBEI
	Remote Phone Book Control	GTPHB
	Remote Volume Control	GTRVC
	Time Adjustment	GTTMA
Position Related Report	Fixed Time Report Information	GTTRI
Alarm Settings	Geo-Fence Information	GTGEO
	Motion Sensor Alarm	GTMSA
	SOS Key Function	GTSOS
	SIM Card Binding	GTBND
	Non-Movement Detection	GTNMD
	Push Button Alarm	GTPBA
Other Settings	Real Time Operation	GTRTO

1.4.3.2.Command Operation Space

Backend Server Configuration is used to configure where and how to report all the messages.

Basic Settings

Report Mode:

Backend Server Settings

APN:

APN user name:

APN user password:

Main Server IP/ Domain Name:

Main Server Port:

Main SMS gate way:

Command Display

`AT+GTSRI=gt301,2,cmnet,,,220.178.67.210,10089,18298268760,F`

Command Description

Parameters Area

Command Display

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

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

[Command Display]: Command with parameters in parameters area is displayed in this area.

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

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

1.4.4.Title Bar

Title Bar indicates current command title and the name of the Manage Tool.

1.4.5.Status Bar

There are system status and current status in status bar.

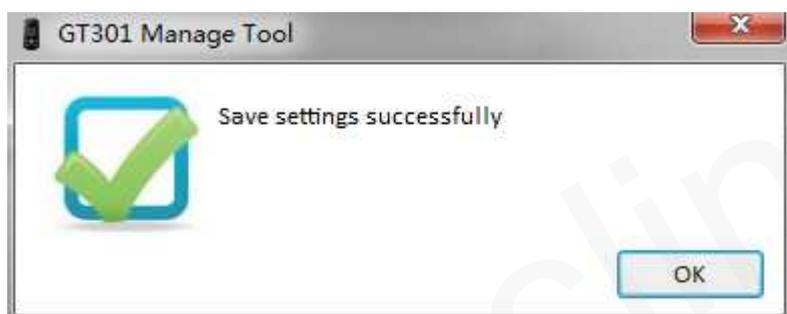
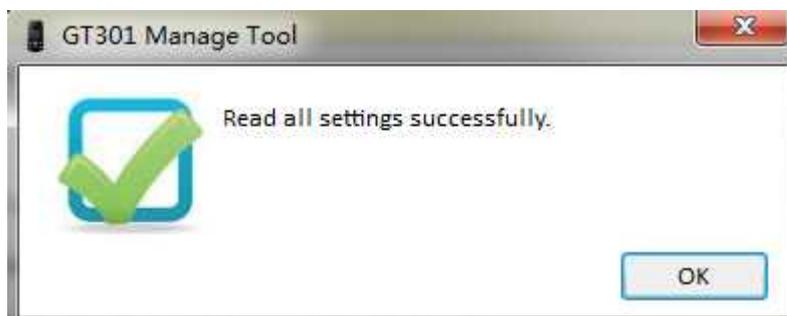
System Status: Executing: N/A, Waiting: 0 commands Current Status: COM6 is Opened, IMEI is 359464032000247, Software Version is A01V13

[System Status]: It indicates the count of the commands which are waiting and being executed.

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

1.5. Operation Result Interface

1.5.1. Operation Successful Interface



1.5.2. Operation Failed Interface

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



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



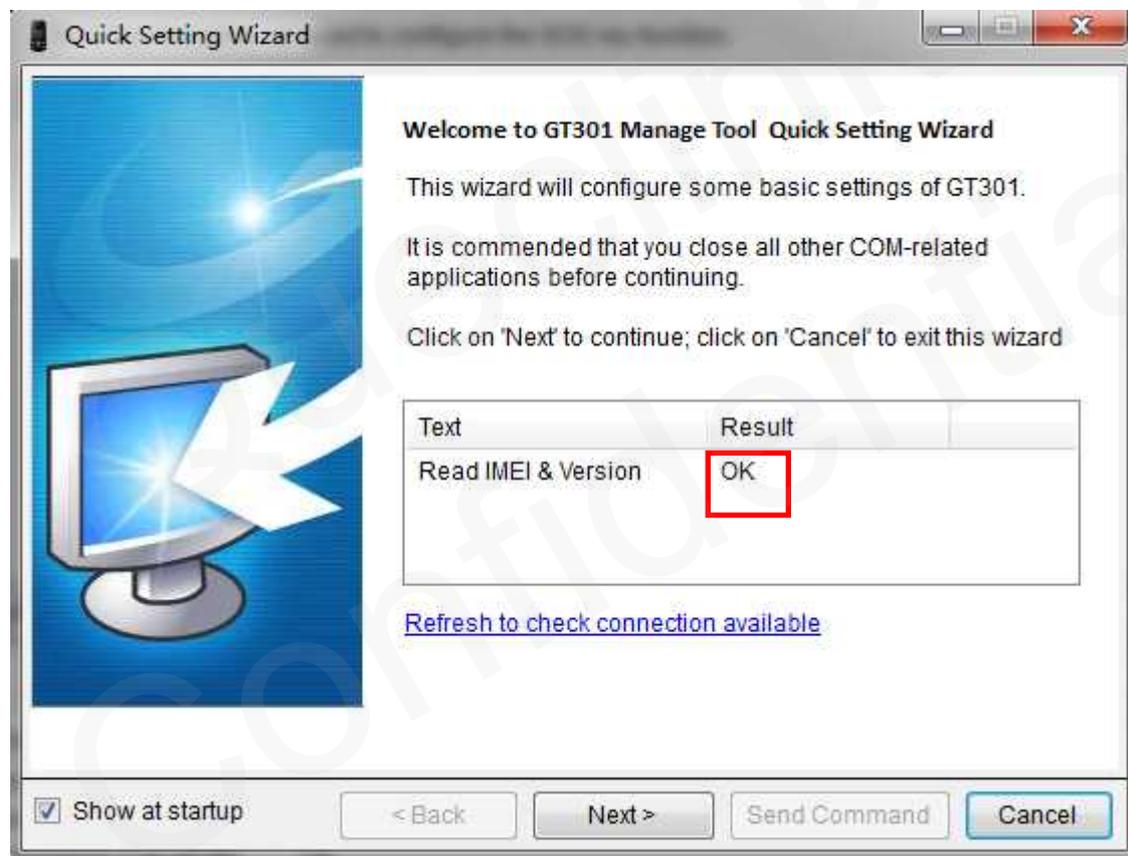
2. GT301 Operation Instructions

2.1. Device Configuration with Quick Setting Wizard

The Manage Tool is developed based on the @Track Air Interface Protocol. Please refer to “GT301 @Track Air Interface Protocol 2nd generation” for details.

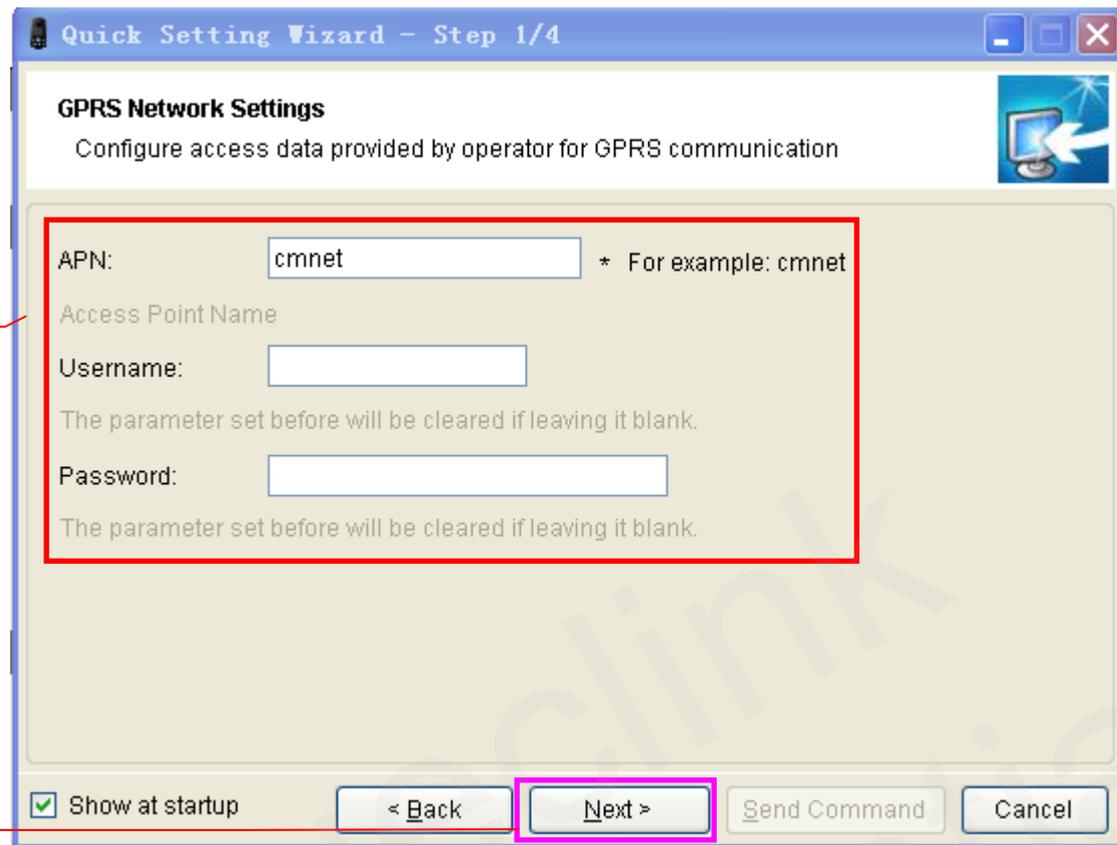
The Quick Setting Wizard provides basic settings for the device. If you want to use more functions of GT301, please change to professional setting mode.

2.1.1. Welcome to Quick Setting Wizard



Click “Quick Setting Wizard” in toolbar, and 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.

2.1.2.GPRS Network Setting



Quick Setting Wizard - Step 1/4

GPRS Network Settings
Configure access data provided by operator for GPRS communication

APN: * For example: cmnet
Access Point Name

Username:
The parameter set before will be cleared if leaving it blank.

Password:
The parameter set before will be cleared if leaving it blank.

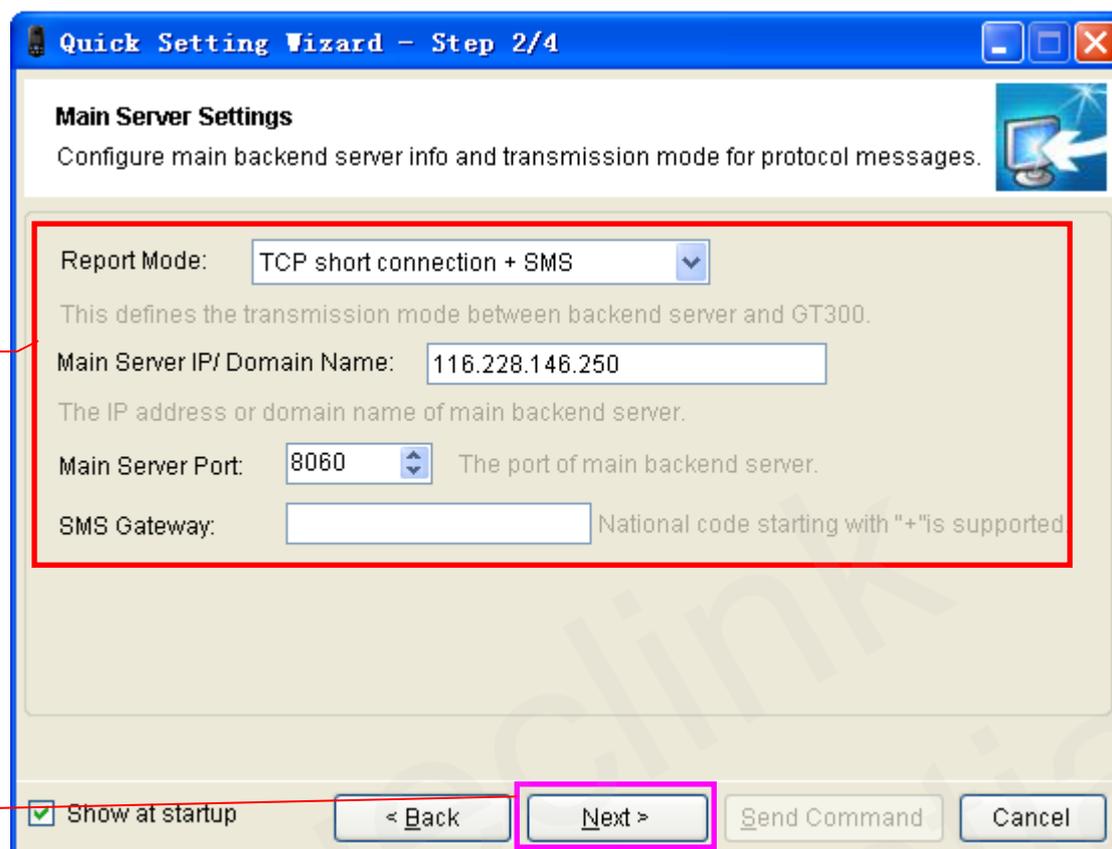
Show at startup

< Back Next > Send Command Cancel

Step_1: Set APN, APN user name and password in this window. For the meanings of these parameters, please refer to the "GT301 @Track Air Interface Protocol 2nd generation".

Step_2: Then click "Next".

2.1.3. Main Server Setting



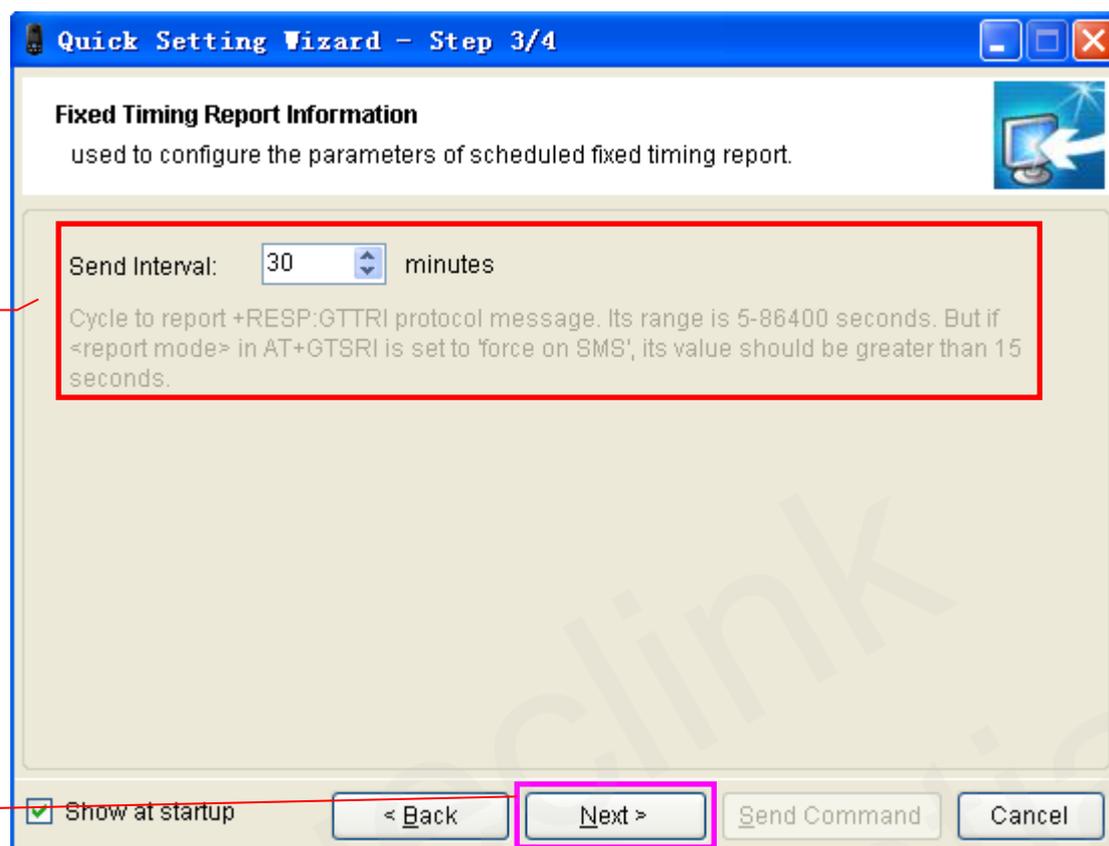
Step_1

Step_2

Step_1: Set report mode, main server, main server port and SMS gateway in this window. For the meanings of these parameters, please refer to the "GT301 @Track Air Interface Protocol 2nd generation".

Step_2: Then click "Next".

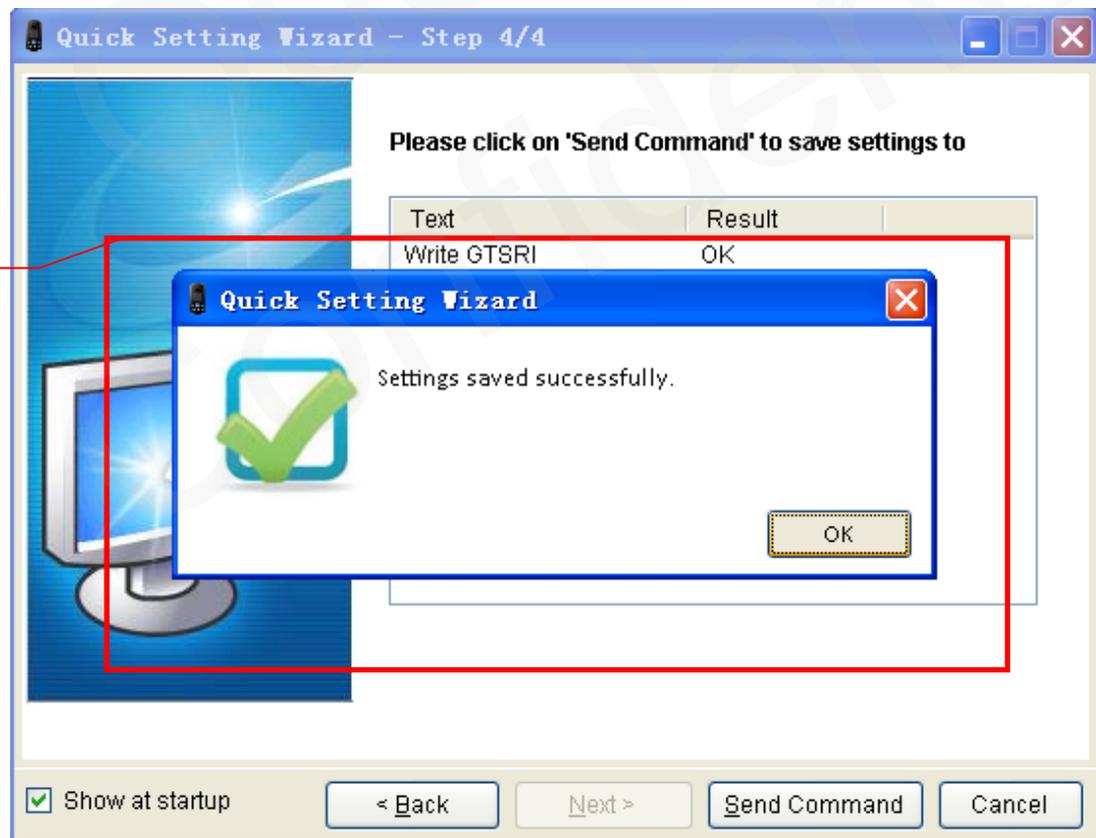
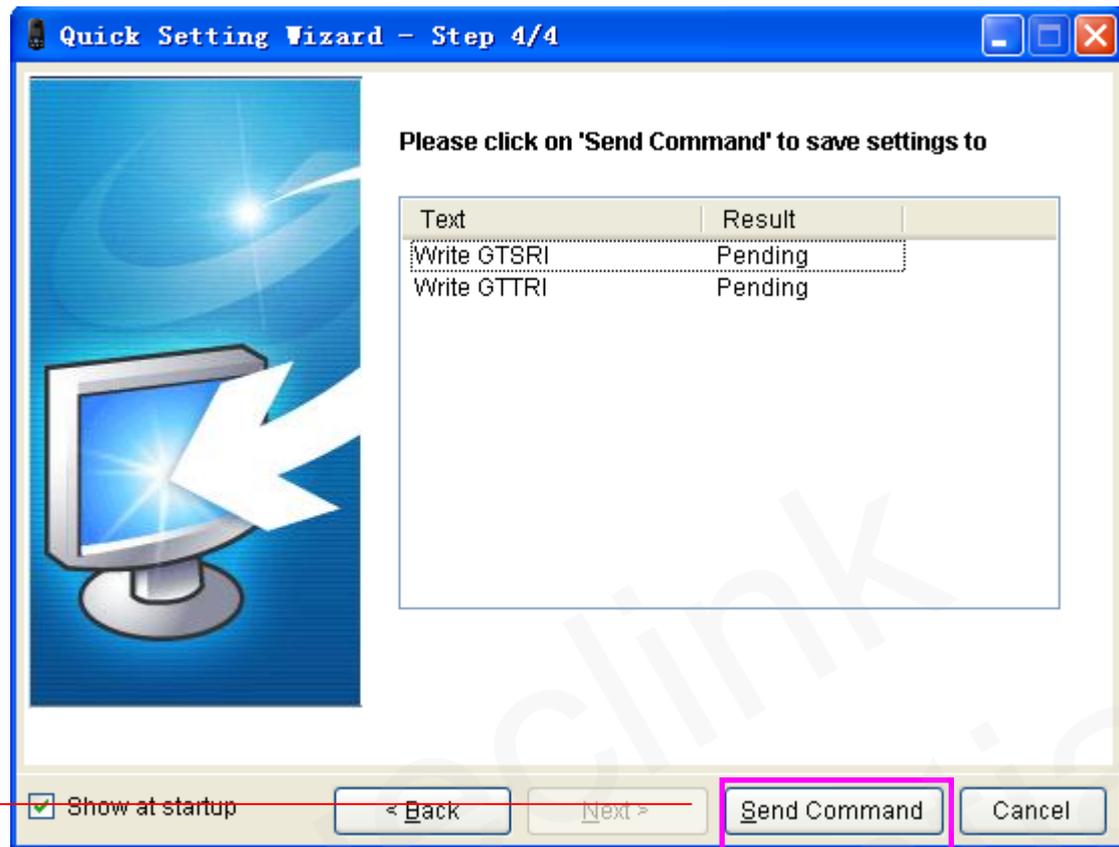
2.1.4.Fixed Time Report Setting



Step_1: Set send interval in this window. For the meanings of the parameters, please refer to the "GT301 @Track Air Interface Protocol 2nd generation".

Step_2: Then click "Next".

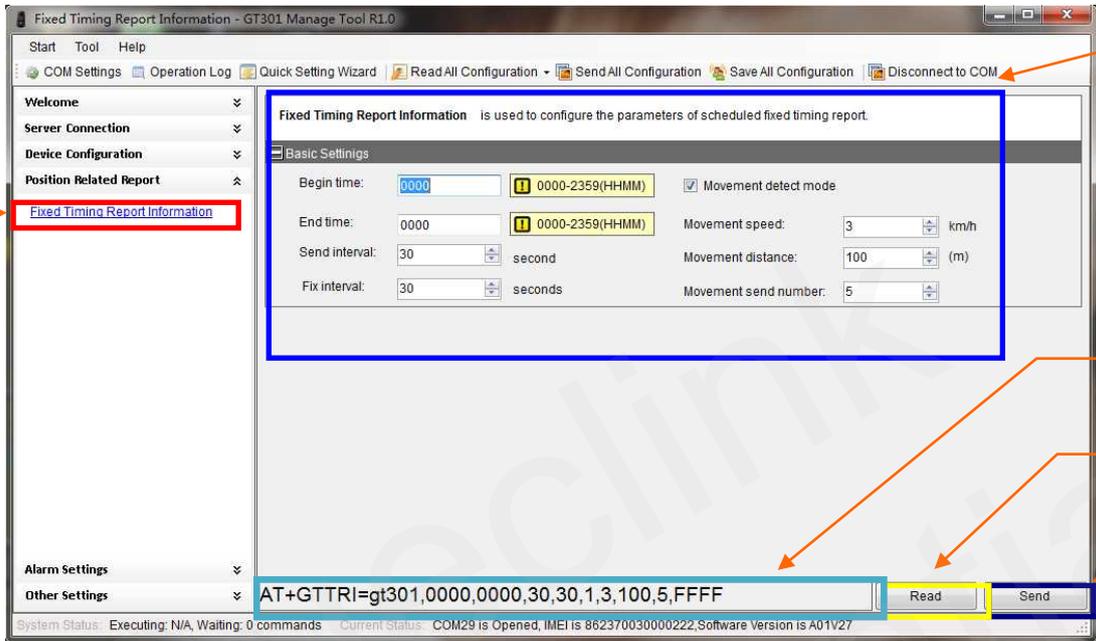
2.1.5. Sending Command to Device



2.2. Device Configuration in Professional Setting Mode

The Manage Tool is developed based on the @Track Air Interface Protocol. Please refer to “GT301 @Track Air Interface Protocol 2nd generation” for details.

The following shows a general procedure to configure GT301 with the Manage Tool.



The screenshot shows the 'Fixed Timing Report Information' configuration window. The left sidebar has a menu item 'Fixed Timing Report Information' highlighted with a red box and labeled 'Step_1'. The main window has a blue box around the 'Basic Settings' section, labeled 'Step_2'. Below this, a text area shows the command 'AT+GTTRI=gt301,0000,0000,30,30,1,3,100,5,FFFF'. A yellow box highlights the 'Read' button, labeled 'Step_3', and a blue box highlights the 'Send' button, labeled 'Step_5'. An arrow labeled 'Step_4' points to the 'Send' button from the top right.

Step_1: Select “Fixed Timing Report Information”. After that, the parameters of **GTTRI** will be shown in Command Operation Space.

Step_2: The command message which shall be sent to GT301 will be generated based on input and displayed here. Please note this command message can also be sent to GT301 through SMS or GPRS.

Step_3: It is recommended to read the parameters from GT301 and edit settings based on them.

Step_4: Set TRI parameters. Please refer to “GT301 @Track Air Interface Protocol 2nd generation” for the meaning of each parameter.

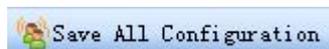
Step_5: Click the “Send” button; download the parameters of **GTTRI** to GT301.

2.3. Read/Save All Configurations

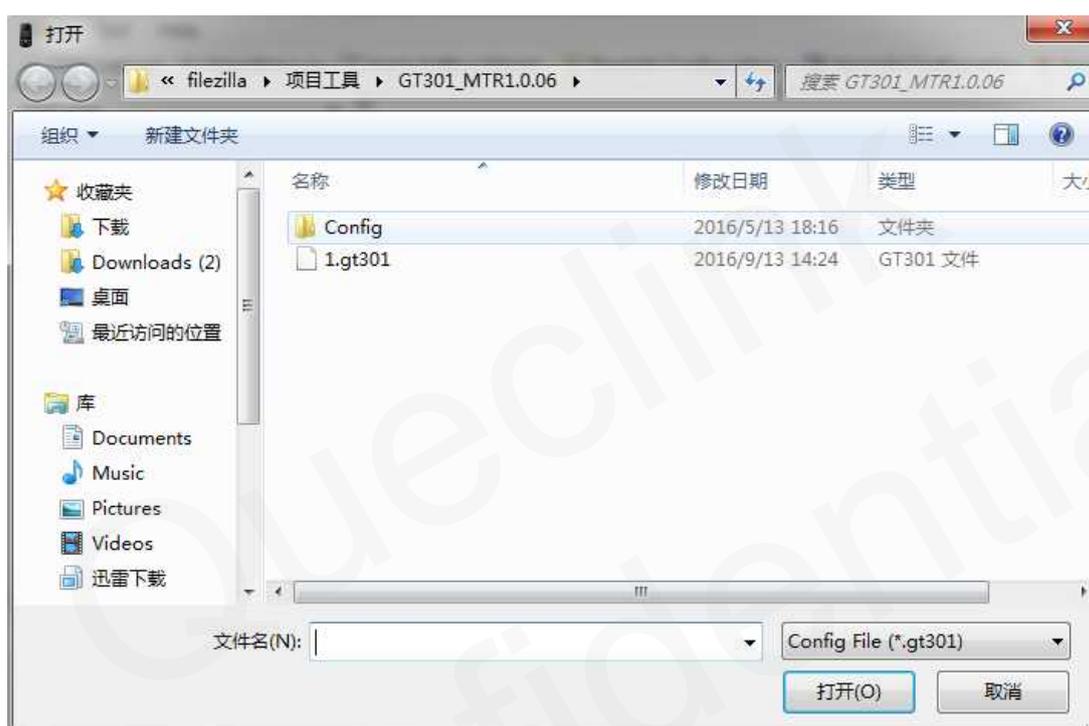
Step_1: It is recommended to read all configurations from the device before saving the configuration. Select “Read All Configuration” → “Read From Device”.



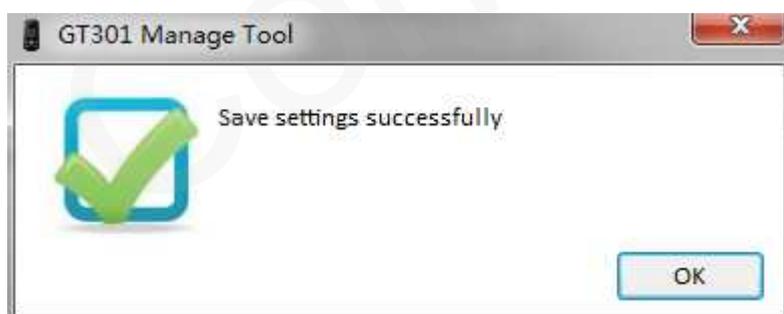
Step_2: After reading successfully, click “Save All Configuration” in toolbar.



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

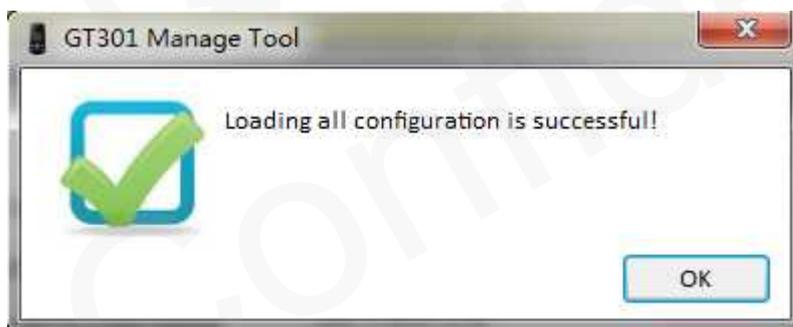
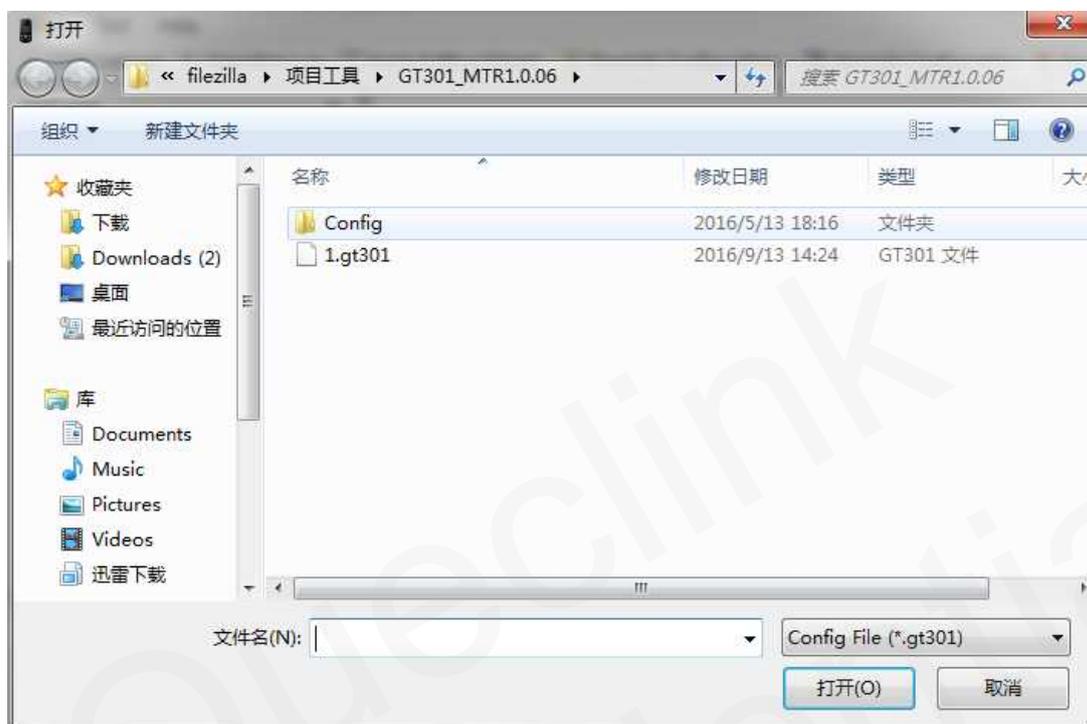


Step_4: Saved successfully.



2.4. Load/Send All Configurations

Step_1: Before sending 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”. Then select the configuration file you need.



Step_2: You can set the parameters in commands based on the configuration file, and then click “Send All Configuration” in toolbar.



Note: Command **GTRTO** will not be sent when clicking “Send All Configuration”.

Step_3: The Manage Tool will send all commands to the device.