



Garmin-FMI Manage Tool User Guide

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1. Revision History

Revision	Date	Author	Description of change
1.00	2012-11-28	Cindy Chen	Initial

2. GARMIN-FMI Manage Tool Interface

GARMIN-FMI manage tool is PC software which can be used to configure GARMIN-FMI through UART. It is easy for the backend server developers to configure GARMIN-FMI with manage tool, which has friendly user interface. The correct command messages sent to GARMIN-FMI 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 GARMIN-FMI before selling. But it is strongly recommended to establish a backend server and implement the way to control GARMIN-FMI by SMS or GPRS. Please refer to “@Track Air Interface for Garmin-FMI 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 GARMIN-FMI to 12VDC power supply and GARMIN-FMI will power on.
2. Connect GARMIN-FMI to equipment with RS232.
3. Run “GARMIN-FMI Manage Tool Vx.xx.exe”.

2.1. System Requirements

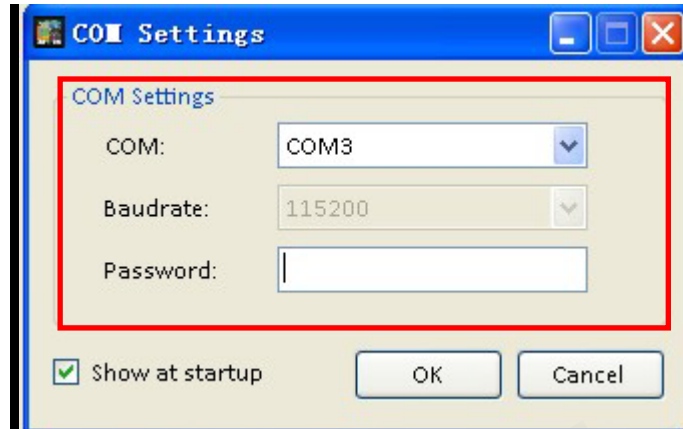
In order for this manage tool to run on your computer, you must use it in below operating system:

- ◆ 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:

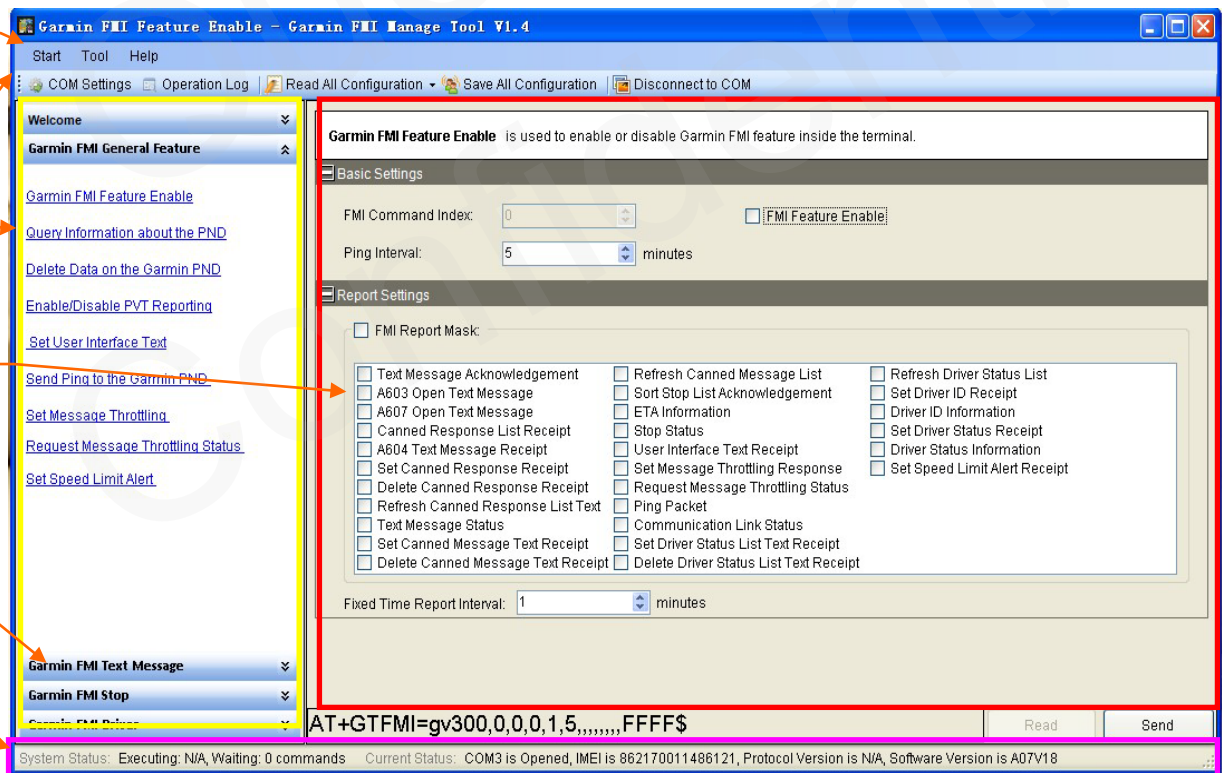
- ◆ Microsoft .NET Framework 2.0 or higher

2.2. COM Setting



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

2.3. Professional Setting Windows



2.3.1. Title Bar

Title Bar indicates current operational command title and the name of manage tool.

2.3.2. Menus

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



2.3.2.1 Start Menu

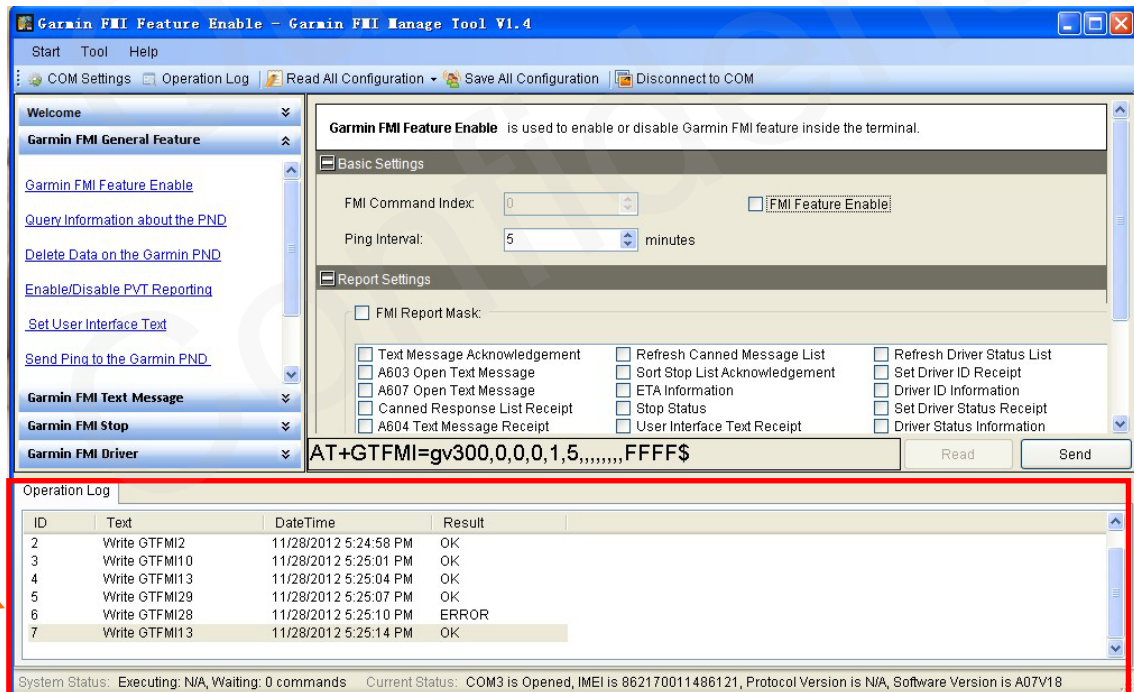
Start menu include “COM Settings”.

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

2.3.2.2 Tool Menu

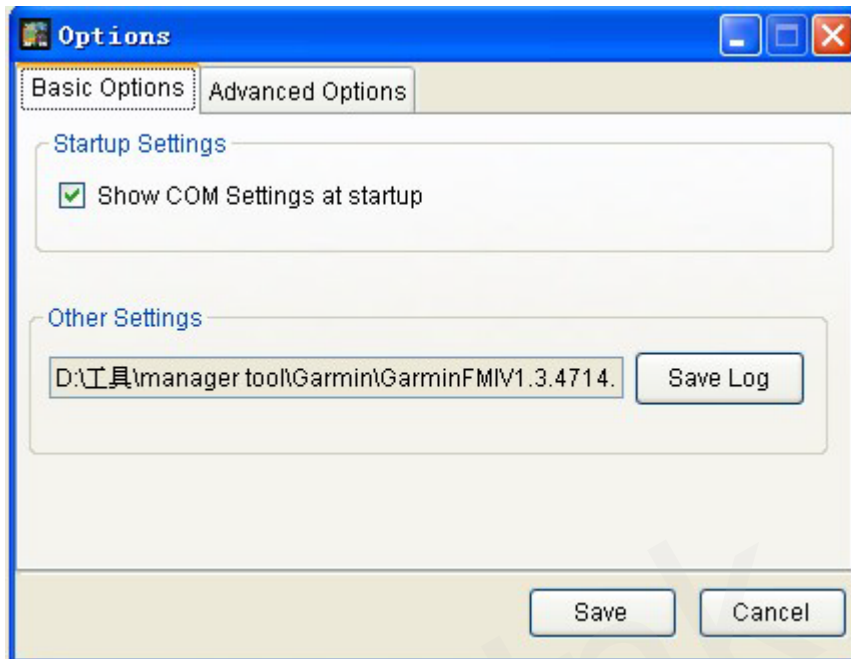
Tool menu include”Operation Log”, “Options” setting.

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



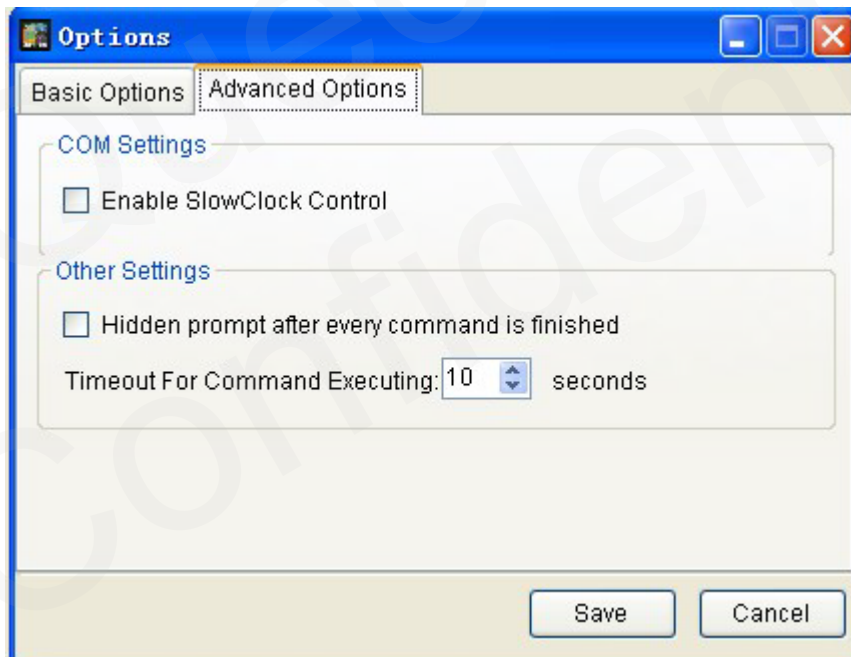
[Options]: It is used to set the basic setting of manage tool.

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



“Advanced Options” include COM settings and other settings.

COM Settings is used to set COM setting. It is recommended using default setting for these settings.



2.3.2.3 Help Menu

[About]: Select “About”. Then the following pop up window will display.



“*Manage Tool Version*” indicates the version of this manage tool.

“*Device Version*” indicates the firmware which connects to the equipment.

2.3.3. Toolbar

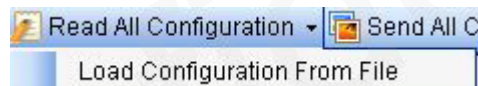
It include “*COM Setting*”, “*Operation Log*”, “*Real All Configuration*”, “*Save All Configuration*”, “*Connect/Disconnect to COM*”.



[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.

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

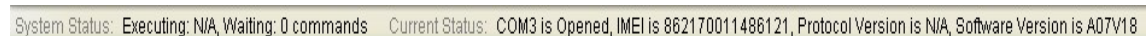


“*Load Configuration From File*”: It is used to load configuration file to the manage tool.

[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.

2.3.4. Status Bar



System Status: Executing: N/A, Waiting: 0 commands Current Status: COM3 is Opened, IMEI is 862170011486121, Protocol Version is N/A, Software Version is A07V18

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.

2.3.5. Command Browser and Command Operation Space

This area is mainly read and set parameters of device.

2.3.5.1 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
Garmin FMI General Feature	Garmin FMI Feature Enable	GTFMI
	Query Information about the PND	GTFMI
	Delete Data on the Garmin PND	GTFMI
	Enable/Disable PVT Reporting	GTFMI
	Set User Interface Text	GTFMI
	Send Ping to the Garmin PND	GTFMI
	Set Message Throttling	GTFMI
	Request Message Throttling Status	GTFMI
	Set Speed Limit Alert	GTFMI
Garmin FMI Text Message	Send Non-acknowledgeable Text Message	GTFMI
	Send Acknowledgeable Text Message	GTFMI
	Send Answerable Text Message	GTFMI
	Send Canned Response Text Message	GTFMI
	Set Canned Response List Text	GTFMI
	Delete Canned Response List Text	GTFMI
	Set Canned Message List Text	GTFMI
	Delete Canned Message List Text	GTFMI
	Request Message Status	GTFMI
Garmin FMI Stop	Send New Stop to the Garmin PND	GTFMI
	Manage Stops on the Garmin PND	GTFMI
	Request ETA of Active Stop from the Garmin PND	GTFMI
	Set Auto Arrival Criteria on the Garmin PND	GTFMI
	Sort Stop List(FMI V2 Only)	GTFMI
Garmin FMI Driver	Set Driver ID In the Garmin PND	GTFMI
	Request Driver ID from the Garmin PND	GTFMI
	Set Driver Status List Text	GTFMI
	Delete Driver Status List Text	GTFMI
	Set Driver Status(FMI V2 Only)	GTFMI
	Request Driver Status	GTFMI

2.3.5.2 Command Operation Space

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

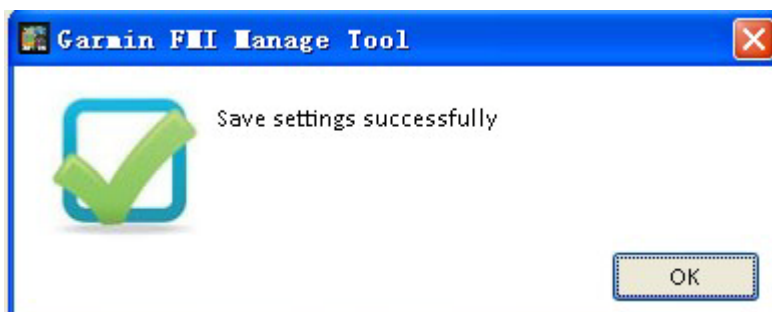
[Parameters Area]: Set/Read parameters of this command in this area.

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

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

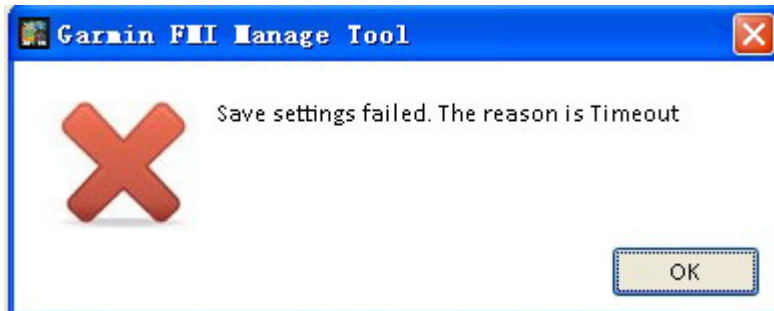
2.4. Operation Result Interface

2.4.1. Operation Successfully Interface

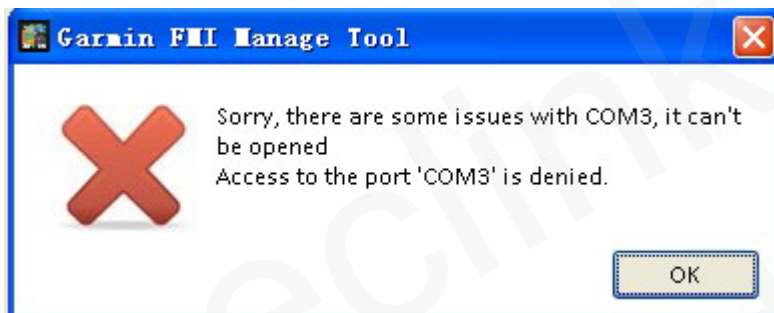


2.4.2. Operation Failed Interface

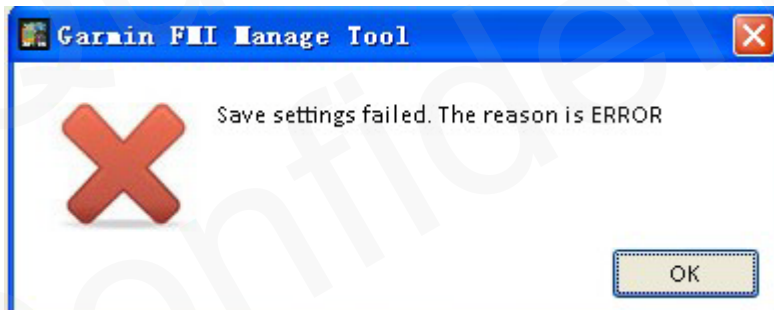
There should be COM port connection problem if the fail reason is timeout.



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



Please change to correct device password if Password Error.



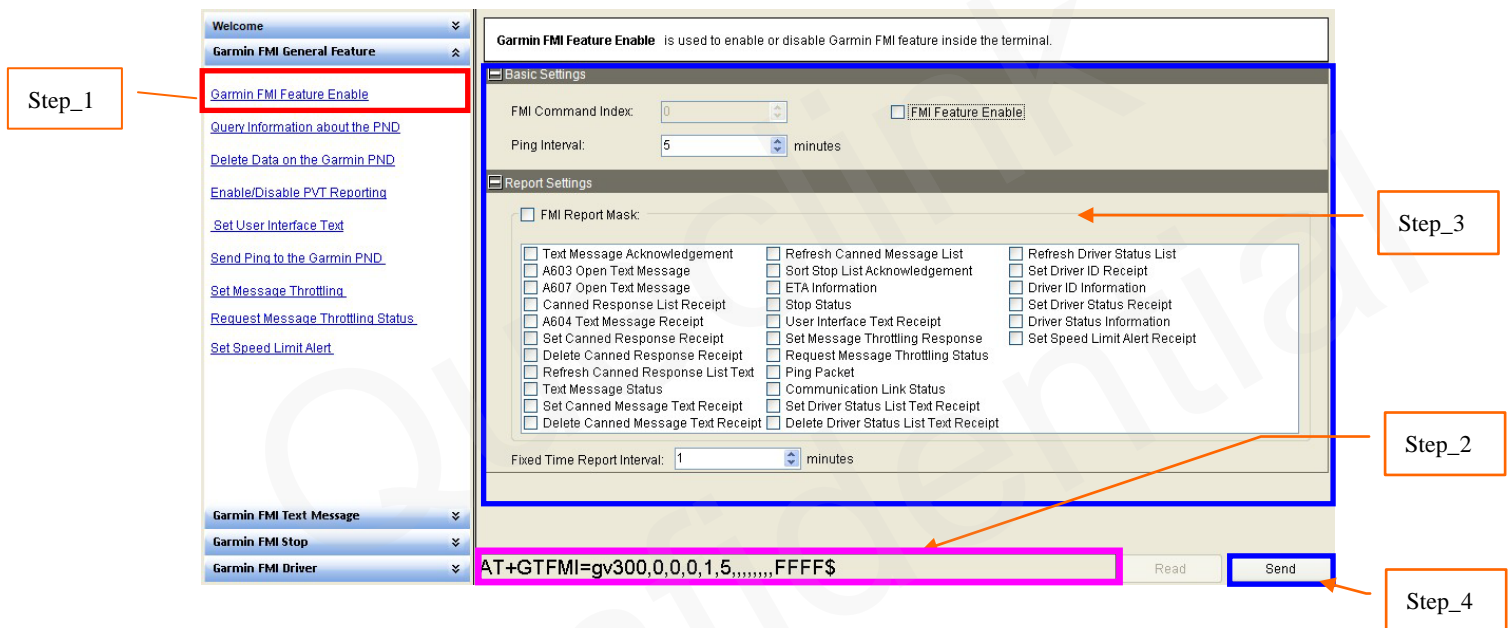
3. Operation Instruction

3.1. Device Configuration in Professional Setting Mode

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

Following is a general procedure to configure GARMIN-FMI with manage tool.

3.1.1. Garmin FMI Feature Enable



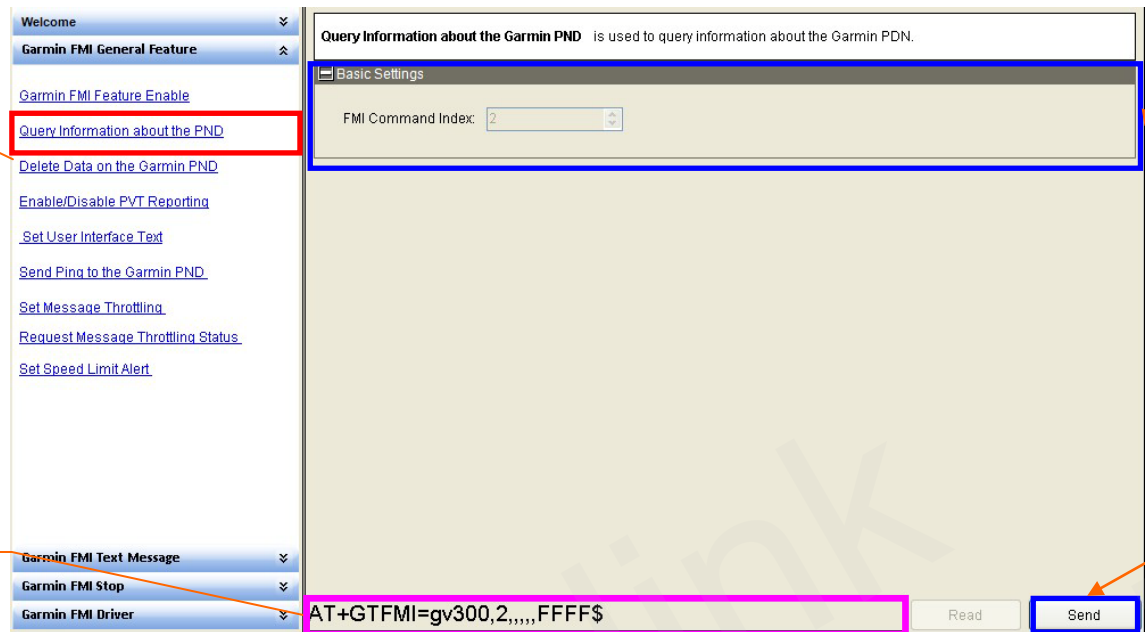
Step_1: Select “Garmin FMI Feature Enable”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set Garmin FMI Feature Enable parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.2. Query Information about the PND



The screenshot shows the 'GARMIN-FMI Manage Tool' interface. On the left, a sidebar menu is expanded to 'Garmin FMI General Feature', with 'Query Information about the PND' highlighted. The main content area is titled 'Query Information about the Garmin PND' and contains a 'Basic Settings' section with an 'FMI Command Index' dropdown set to '2'. At the bottom, a command input field contains 'AT+GTFMI=gv300,2,,,,,FFFF\$' and a 'Send' button.

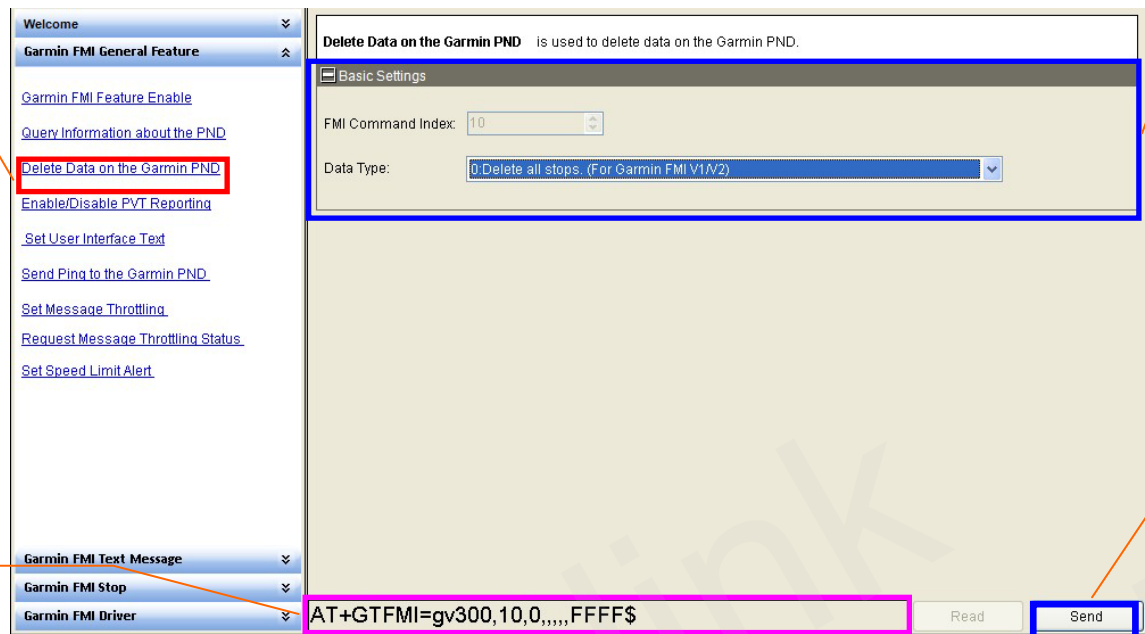
Step_1: Select “*Query Information about the PND*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set Query Information about the PND parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.3. Delete Data on the Garmin PND



The screenshot shows the 'Delete Data on the Garmin PND' configuration page. The left sidebar contains a menu with 'Delete Data on the Garmin PND' highlighted. The main area has 'Basic Settings' with 'FMI Command Index' set to 10 and 'Data Type' set to '0: Delete all stops. (For Garmin FMI V1/V2)'. At the bottom, the command field contains 'AT+GTFMI=gv300,10,0,,,,,FFFF\$' and a 'Send' button.

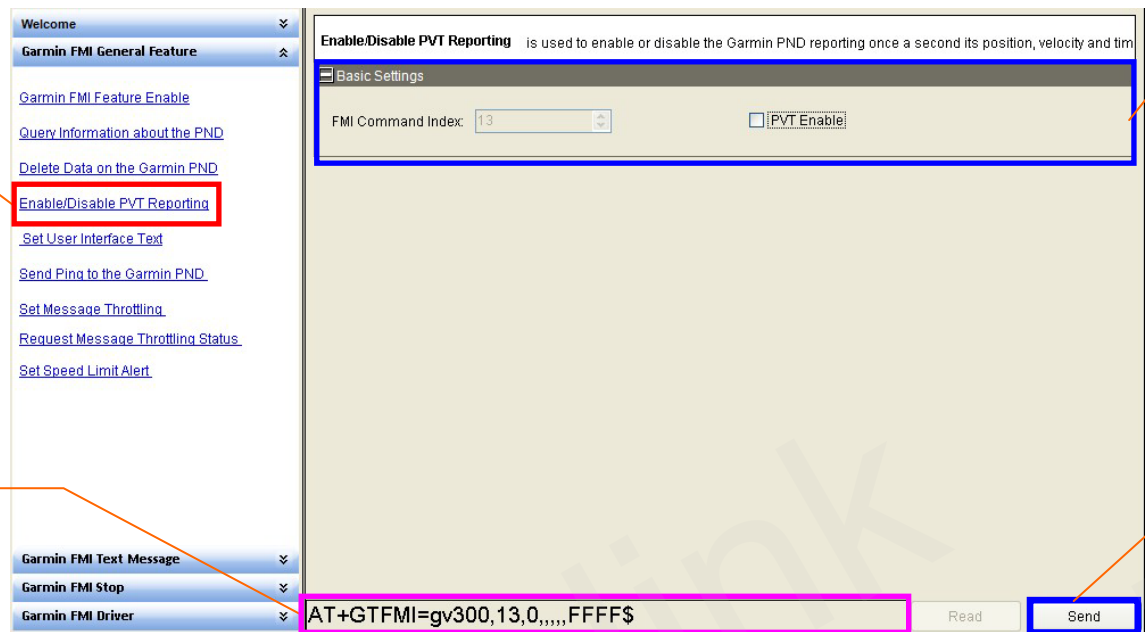
Step_1: Select “Delete Data on the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Delete Data on the Garmin PND parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.4. Enable/Disable PVT Reporting



The screenshot shows the 'GARMIN-FMI Manage Tool' interface. On the left, a sidebar menu lists various features, with 'Enable/Disable PVT Reporting' highlighted in a red box and labeled 'Step_1'. The main content area is titled 'Enable/Disable PVT Reporting' and contains a 'Basic Settings' section with a dropdown for 'FMI Command Index' set to '13' and a 'PVT Enable' checkbox, both highlighted with a blue box and labeled 'Step_3'. At the bottom, a command input field contains the text 'AT+GTFMI=gv300,13,0,,,,,FFFF\$' and is highlighted with a pink box and labeled 'Step_2'. A 'Send' button is highlighted with a blue box and labeled 'Step_4'.

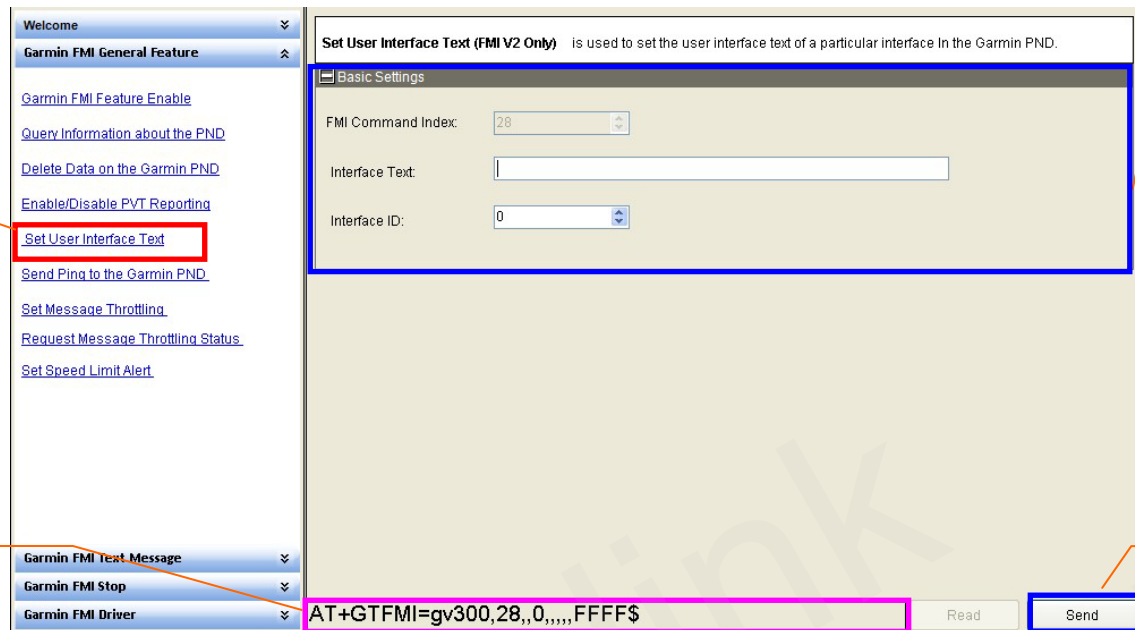
Step_1: Select “*Enable/Disable PVT Reporting*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set Enable/Disable PVT Reporting parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.5. Set User Interface Text



The screenshot shows the 'Set User Interface Text (FMI V2 Only)' configuration page. The left sidebar contains a menu with 'Set User Interface Text' highlighted. The main area has 'Basic Settings' with fields for 'FMI Command Index' (28), 'Interface Text' (empty), and 'Interface ID' (0). At the bottom, a command field contains 'AT+GTFMI=gv300,28,,0,,,,,FFFF\$' and a 'Send' button.

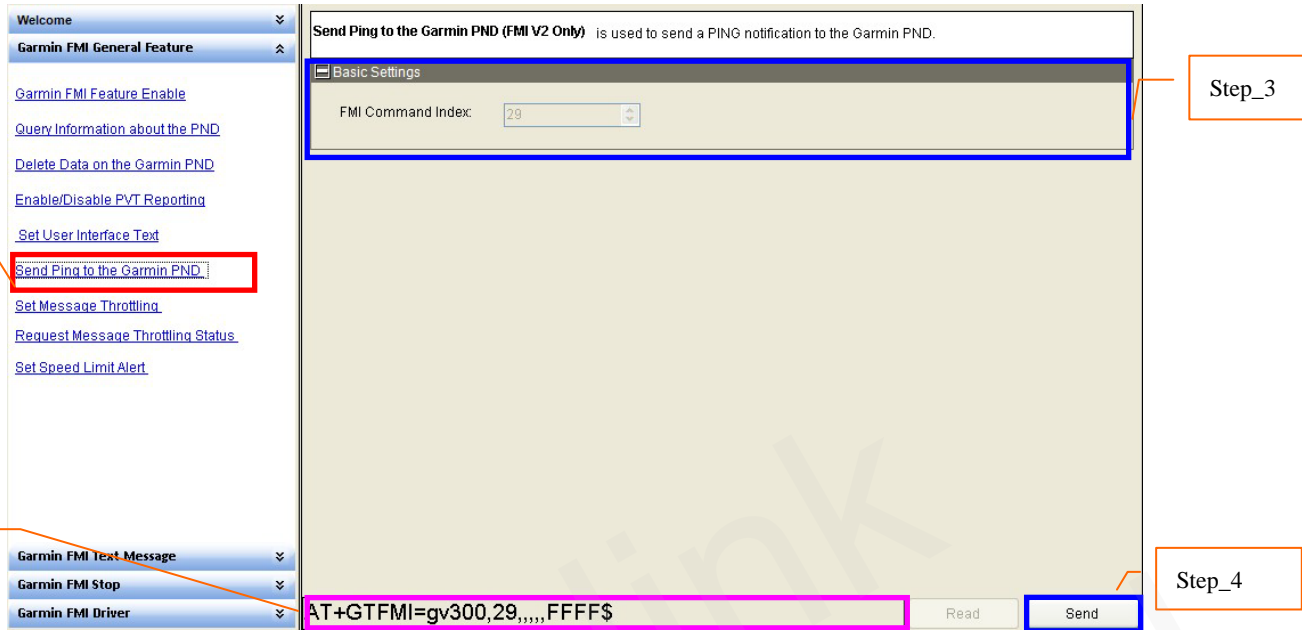
Step_1: Select “Set User Interface Text”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set User Interface Text parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.6. Send Ping to the Garmin PND



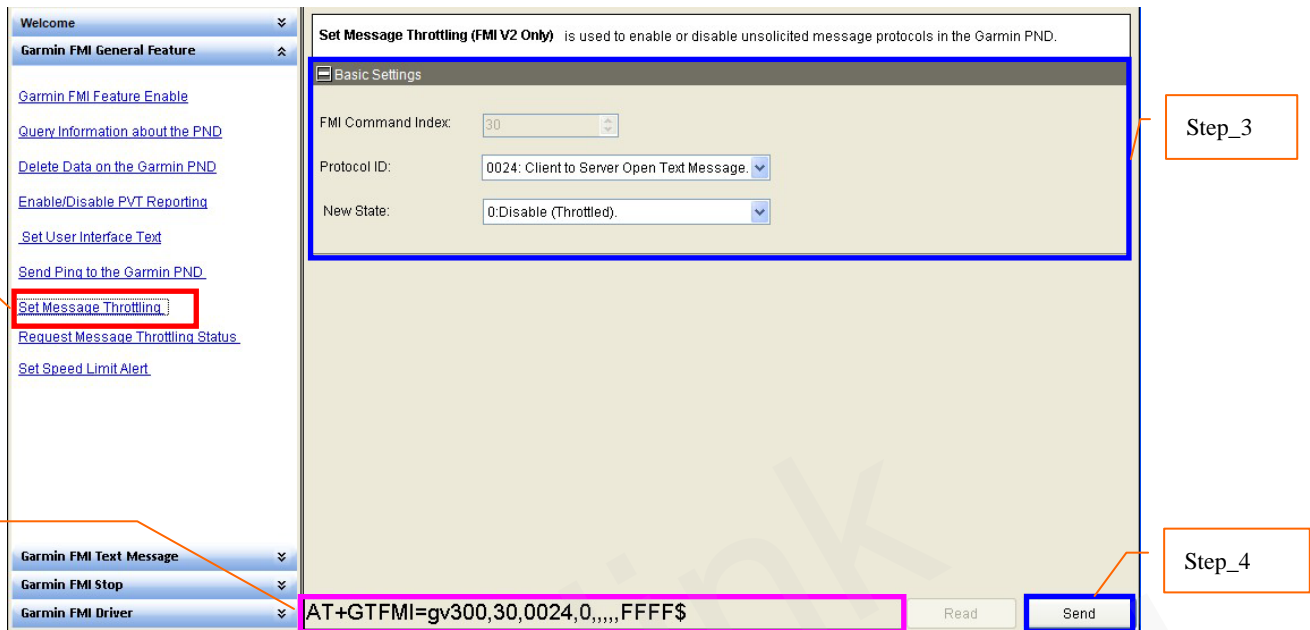
Step_1: Select “Send Ping to the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Send Ping to the Garmin PND parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.7. Set Message Throttling



The screenshot shows the 'Set Message Throttling (FMI V2 Only)' configuration page. The left sidebar contains a 'Garmin FMI General Feature' section with 'Set Message Throttling' highlighted. Below it are sections for 'Garmin FMI Text Message', 'Garmin FMI Stop', and 'Garmin FMI Driver'. The main area shows 'Basic Settings' with 'FMI Command Index' set to 30, 'Protocol ID' set to '0024: Client to Server Open Text Message', and 'New State' set to '0:Disable (Throttled)'. At the bottom, the command 'AT+GTFMI=gv300,30,0024,0,,,,,FFFF\$' is displayed in a text field, with a 'Send' button to its right.

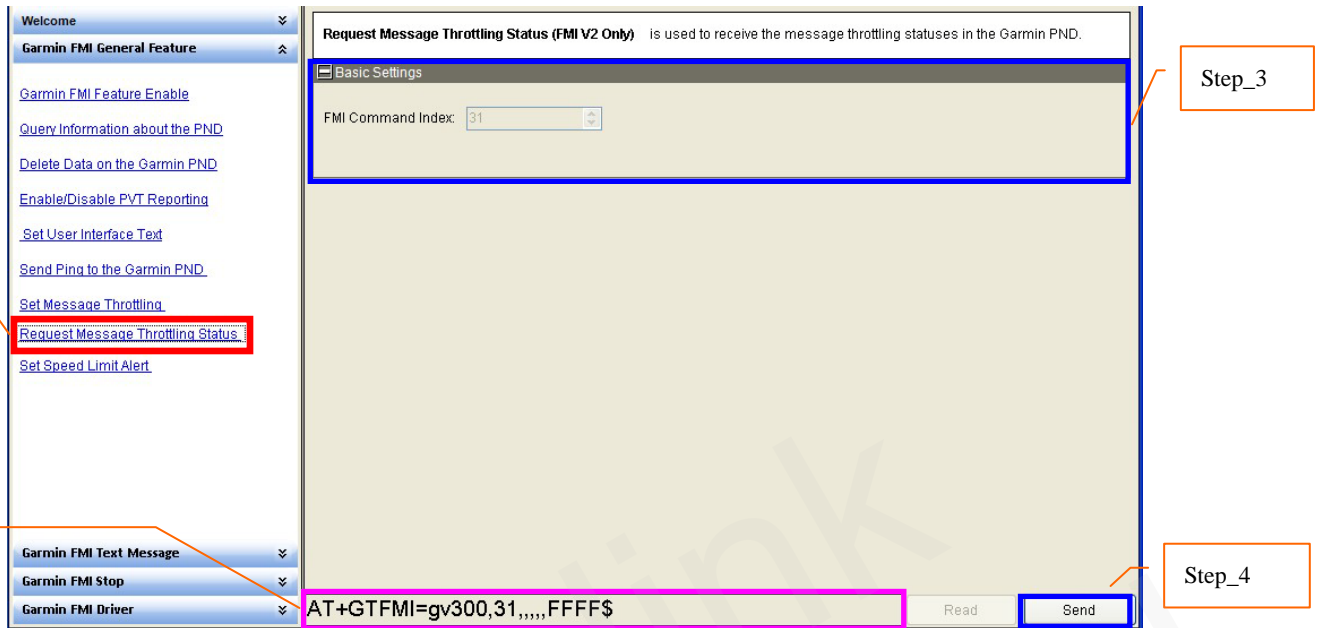
Step_1: Select “Set Message Throttling”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Message Throttling parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.8. Request Message Throttling Status



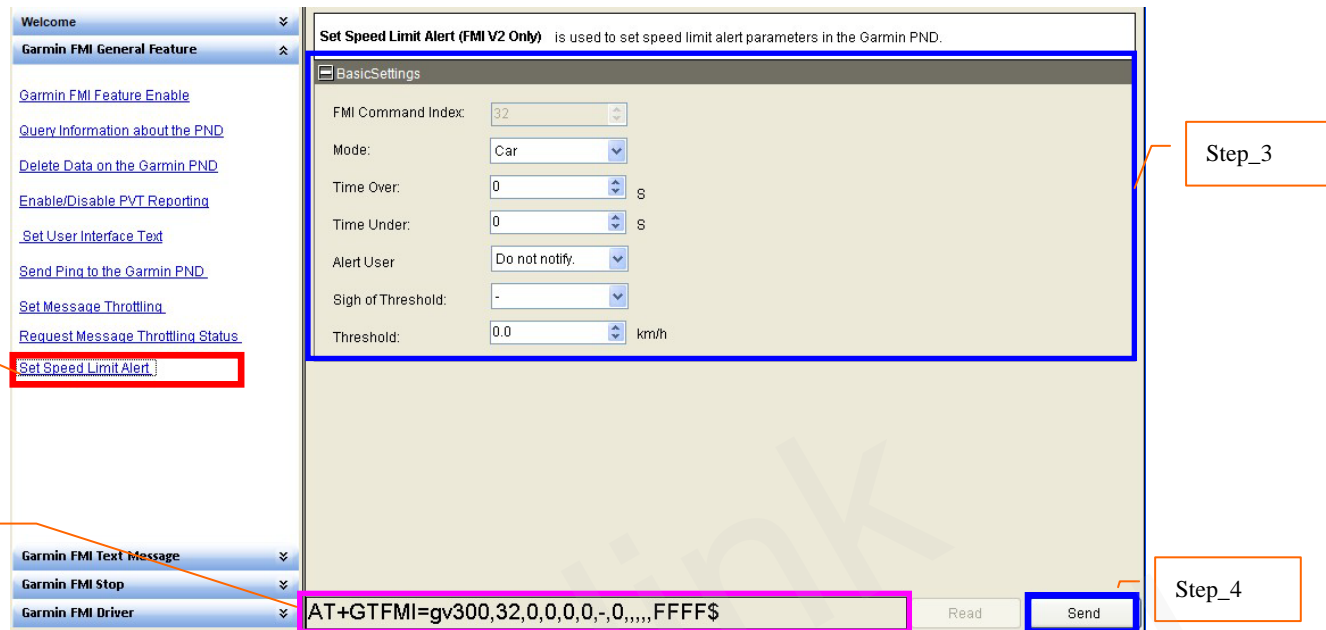
Step_1: Select “*Request Message Throttling Status*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Request Message Throttling Status parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.9. Set Speed Limit Alert



The screenshot shows the 'Set Speed Limit Alert (FMI V2 Only)' configuration page. The left sidebar contains a menu with 'Set Speed Limit Alert' highlighted. The main content area shows the 'BasicSettings' section with the following parameters:

- FMI Command Index: 32
- Mode: Car
- Time Over: 0 s
- Time Under: 0 s
- Alert User: Do not notify
- Sign of Threshold: -
- Threshold: 0.0 km/h

The command message field displays: `AT+GTFMI=gv300,32,0,0,0,0,-,0,,,,,FFFF$`. The 'Send' button is highlighted.

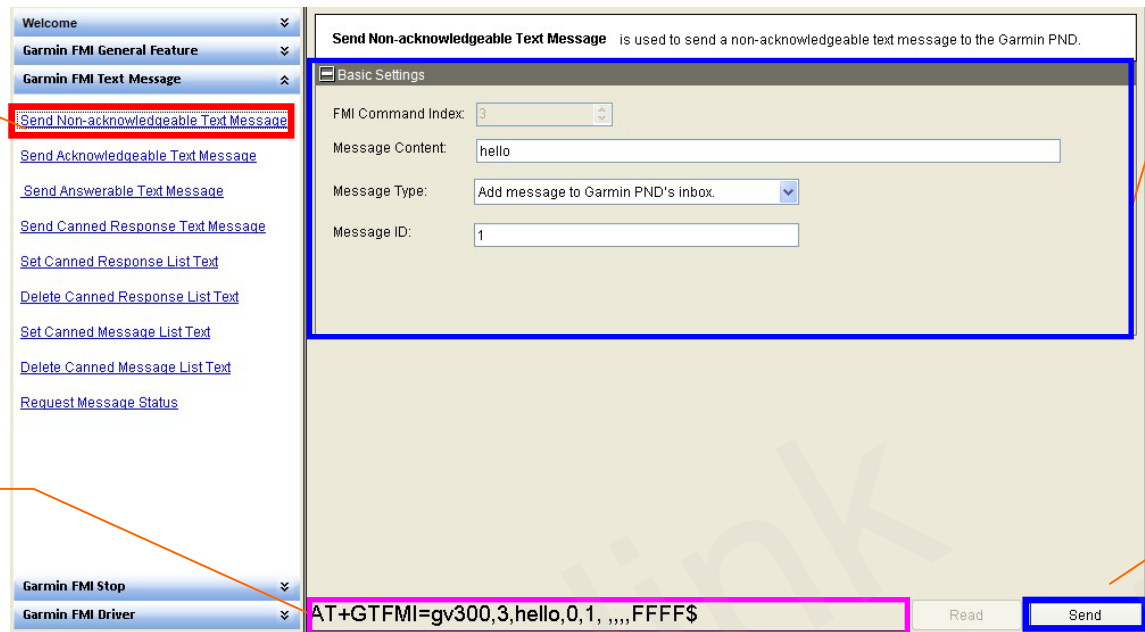
Step_1: Select “Set Speed Limit Alert”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Speed Limit Alert parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.10. Send Non-acknowledgeable Text Message



The screenshot shows the 'Send Non-acknowledgeable Text Message' configuration screen. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, and Garmin FMI Text Message. Under 'Garmin FMI Text Message', the following options are listed: Send Non-acknowledgeable Text Message (highlighted with a red box and labeled Step_1), Send Acknowledgeable Text Message, Send Answerable Text Message, Send Canned Response Text Message, Set Canned Response List Text, Delete Canned Response List Text, Set Canned Message List Text, Delete Canned Message List Text, and Request Message Status. At the bottom of the sidebar are 'Garmin FMI Stop' and 'Garmin FMI Driver'. The main configuration area is titled 'Send Non-acknowledgeable Text Message' and includes a description: 'is used to send a non-acknowledgeable text message to the Garmin PND.' Below this is a 'Basic Settings' section with the following fields: FMI Command Index (set to 3), Message Content (set to 'hello'), Message Type (set to 'Add message to Garmin PND's inbox'), and Message ID (set to 1). At the bottom of the main area, the command 'AT+GTFMI=gv300,3,hello,0,1, ,,,,FFFF\$' is displayed in a pink box (labeled Step_2), and a 'Send' button is visible (labeled Step_4). A 'Read' button is also present. A large 'Copyrighted' watermark is visible across the bottom half of the screenshot.

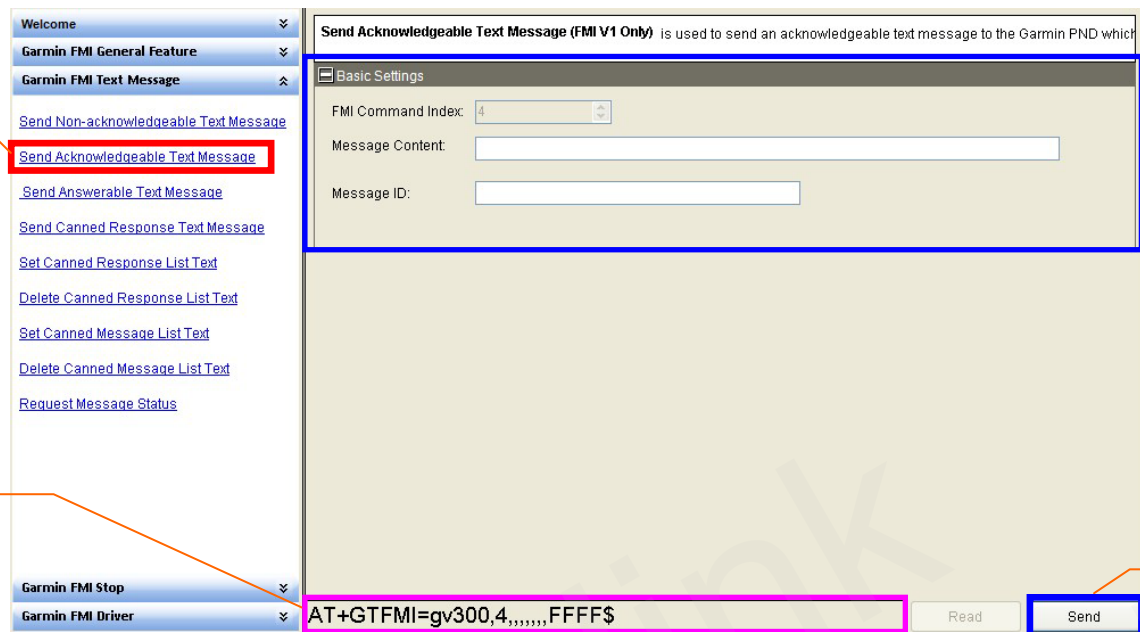
Step_1: Select “Send Non-acknowledgeable Text Message”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Send Non-acknowledgeable Text Message parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.11. Send Acknowledgeable Text Message



The screenshot shows the 'Send Acknowledgeable Text Message (FMI V1 Only)' configuration window. The left sidebar contains a menu with 'Send Acknowledgeable Text Message' highlighted. The main area has 'Basic Settings' with fields for 'FMI Command Index' (set to 4), 'Message Content', and 'Message ID'. At the bottom, the command 'AT+GTFMI=gv300,4,,,,,, FFFF\$' is displayed in the status bar, and a 'Send' button is visible.

Step_1: Select “Send Acknowledgeable Text Message”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Send Acknowledgeable Text Message parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.12. Send Answerable Text Message

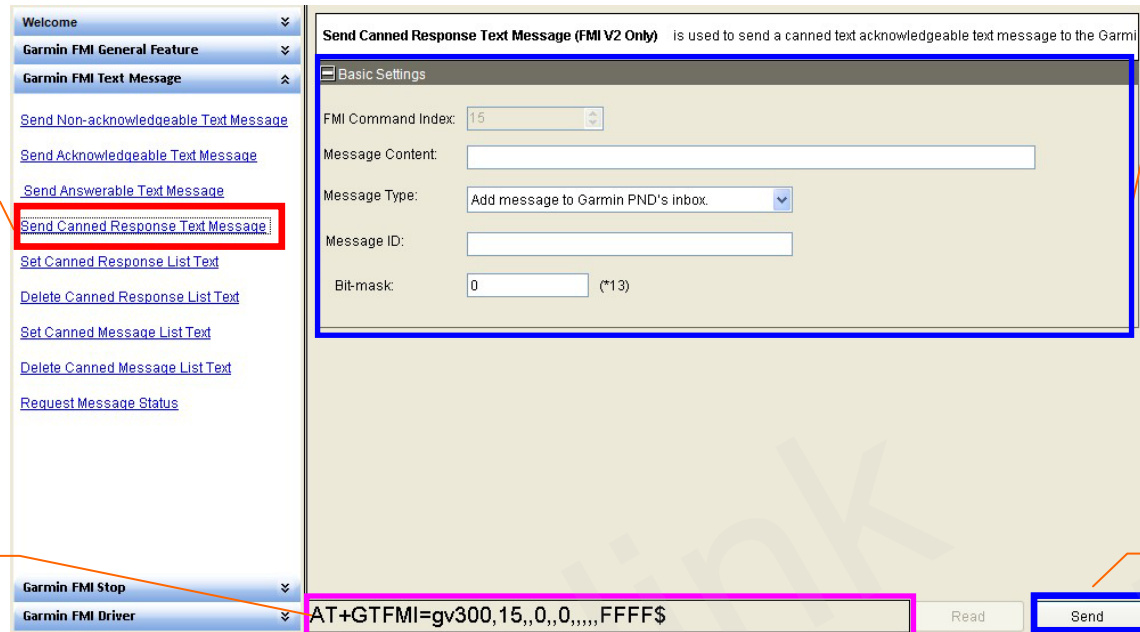
Step_1: Select “*Send Answerable Text Message*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Send Answerable Text Message parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.13. Send Canned Response Text Message



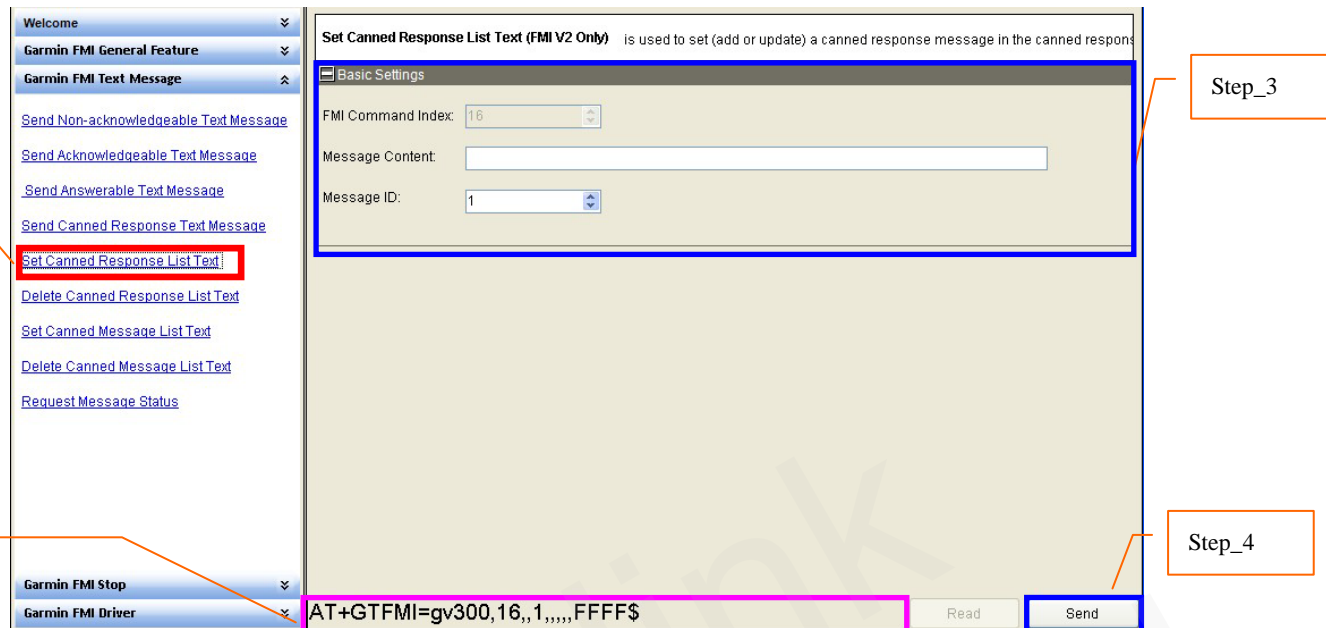
Step_1: Select “*Send Canned Response Text Message*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Send Canned Response Text Message parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.14. Set Canned Response List Text



The screenshot shows the 'Set Canned Response List Text (FMI V2 Only)' configuration page. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, Garmin FMI Text Message, Send Non-acknowledgeable Text Message, Send Acknowledgeable Text Message, Send Answerable Text Message, Send Canned Response Text Message, **Set Canned Response List Text** (highlighted with a red box), Delete Canned Response List Text, Set Canned Message List Text, Delete Canned Message List Text, and Request Message Status. The main configuration area is titled 'Basic Settings' and contains the following fields: FMI Command Index (16), Message Content (empty text box), and Message ID (1). At the bottom, the command field displays 'AT+GTFMI=gv300,16,,1,,,,,FFFF\$' and has 'Read' and 'Send' buttons. Annotations 'Step_1' through 'Step_4' are placed around the interface to indicate the steps for setting the canned response list text.

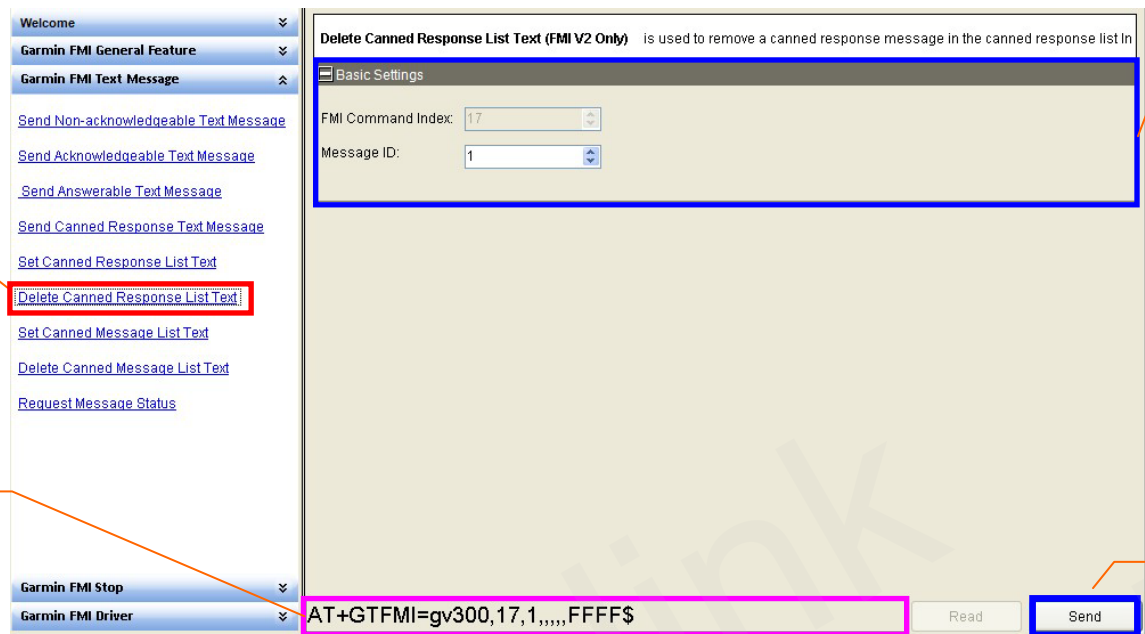
Step_1: Select “Set Canned Response List Text”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Canned Response List Text parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.15. Delete Canned Response List Text



The screenshot shows the 'Delete Canned Response List Text (FMI V2 Only)' configuration window. The left sidebar contains a menu with 'Delete Canned Response List Text' highlighted. The main window has a 'Basic Settings' section with 'FMI Command Index' set to 17 and 'Message ID' set to 1. Below this, the command text area contains 'AT+GTFMI=gv300,17,1,,,,,FFFF\$'. A 'Send' button is located at the bottom right.

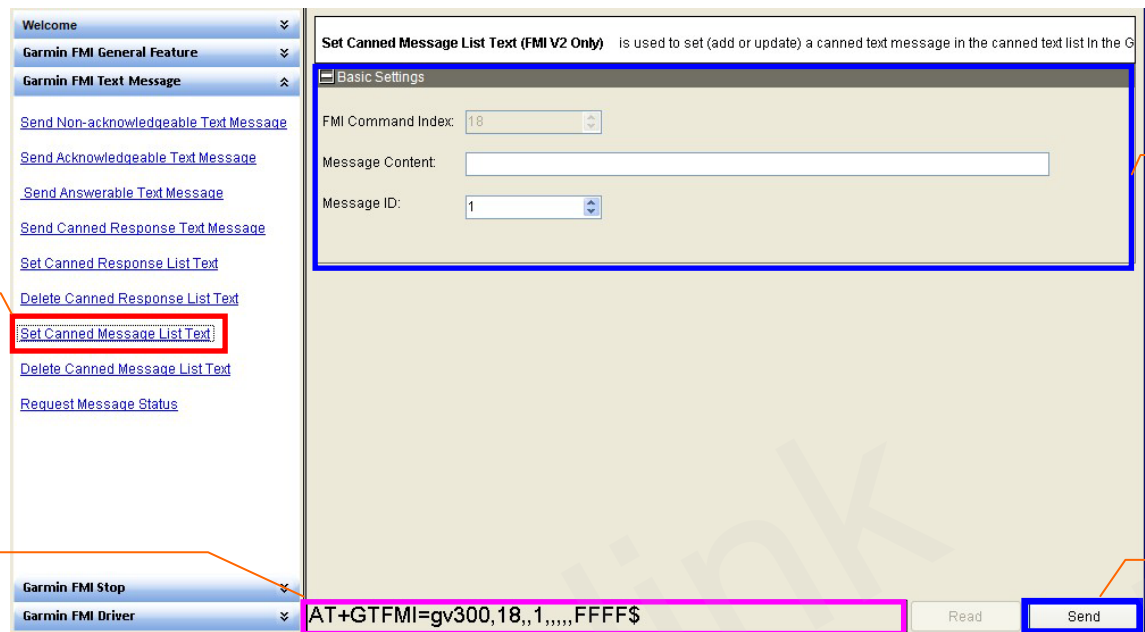
Step_1: Select “Delete Canned Response List Text”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Delete Canned Response List Text parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.16. Set Canned Message List Text



The screenshot shows the 'Set Canned Message List Text (FMI V2 Only)' configuration window. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, Garmin FMI Text Message, Send Non-acknowledgeable Text Message, Send Acknowledgeable Text Message, Send Answerable Text Message, Send Canned Response Text Message, Set Canned Response List Text, Delete Canned Response List Text, **Set Canned Message List Text** (highlighted with a red box), Delete Canned Message List Text, and Request Message Status. The main configuration area is titled 'Basic Settings' and includes: FMI Command Index (18), Message Content (empty text box), and Message ID (1). At the bottom, the 'Garmin FMI Driver' menu item is selected, showing the command 'AT+GTFMI=gv300,18,,1,,,,FFFF\$' in a pink box. A 'Send' button is highlighted with a blue box.

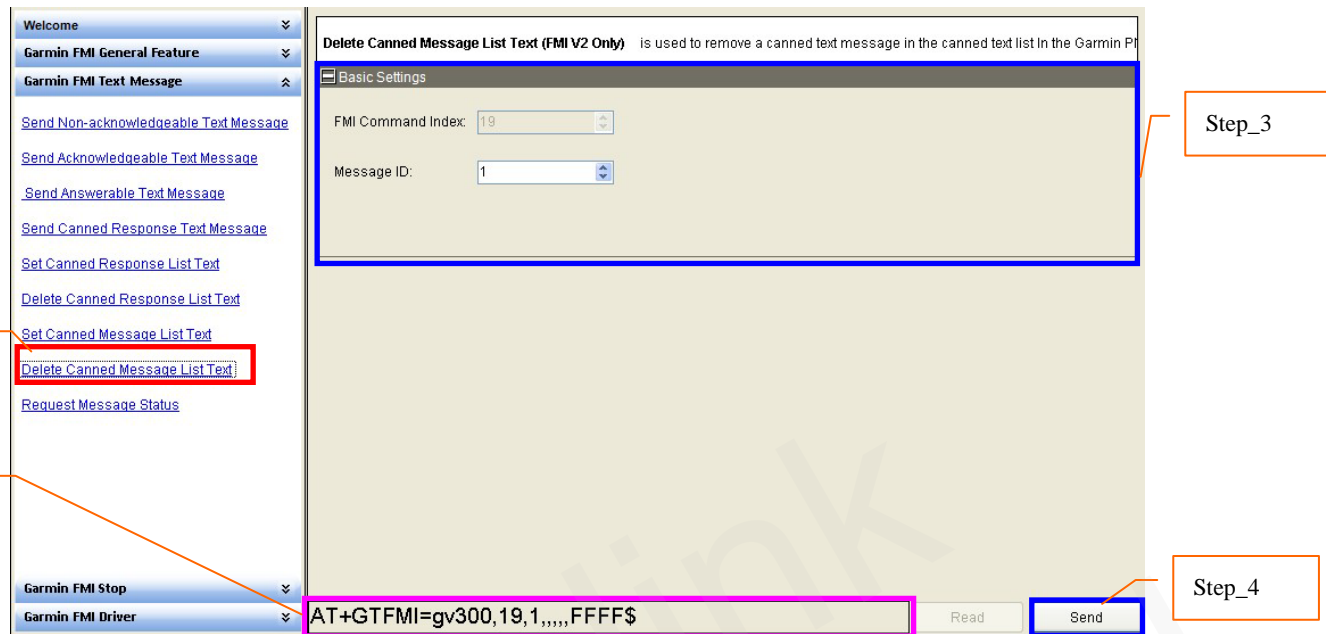
Step_1: Select “*Set Canned Message List Text*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Canned Message List Text parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.17. Delete Canned Message List Text



The screenshot shows the 'Delete Canned Message List Text (FMI V2 Only)' configuration window. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, Garmin FMI Text Message, Send Non-acknowledgeable Text Message, Send Acknowledgeable Text Message, Send Answerable Text Message, Send Canned Response Text Message, Set Canned Response List Text, Delete Canned Response List Text, Set Canned Message List Text, **Delete Canned Message List Text** (highlighted with a red box), and Request Message Status. The main configuration area has 'Basic Settings' with 'FMI Command Index' set to 19 and 'Message ID' set to 1. At the bottom, the command input field contains 'AT+GTFMI=gv300,19,1,,,,,FFFF\$' and the 'Send' button is highlighted with a blue box.

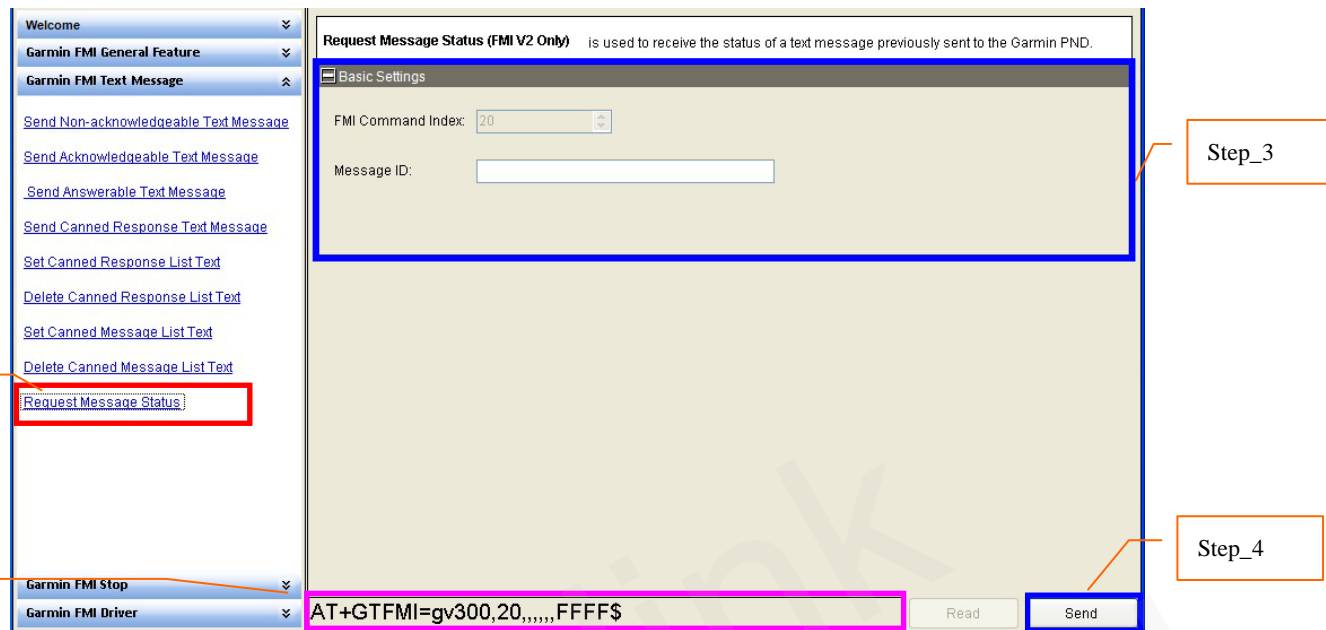
Step_1: Select “Delete Canned Message List Text”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Delete Canned Message List Text parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.18. Request Message Status



The screenshot shows the 'Request Message Status (FMI V2 Only)' configuration page. The left sidebar contains a menu with 'Request Message Status' highlighted. The main content area has a 'Basic Settings' section with 'FMI Command Index' set to 20 and an empty 'Message ID' field. The bottom command field displays 'AT+GTFMI=gv300,20,,,,,FFFF\$' and has a 'Send' button.

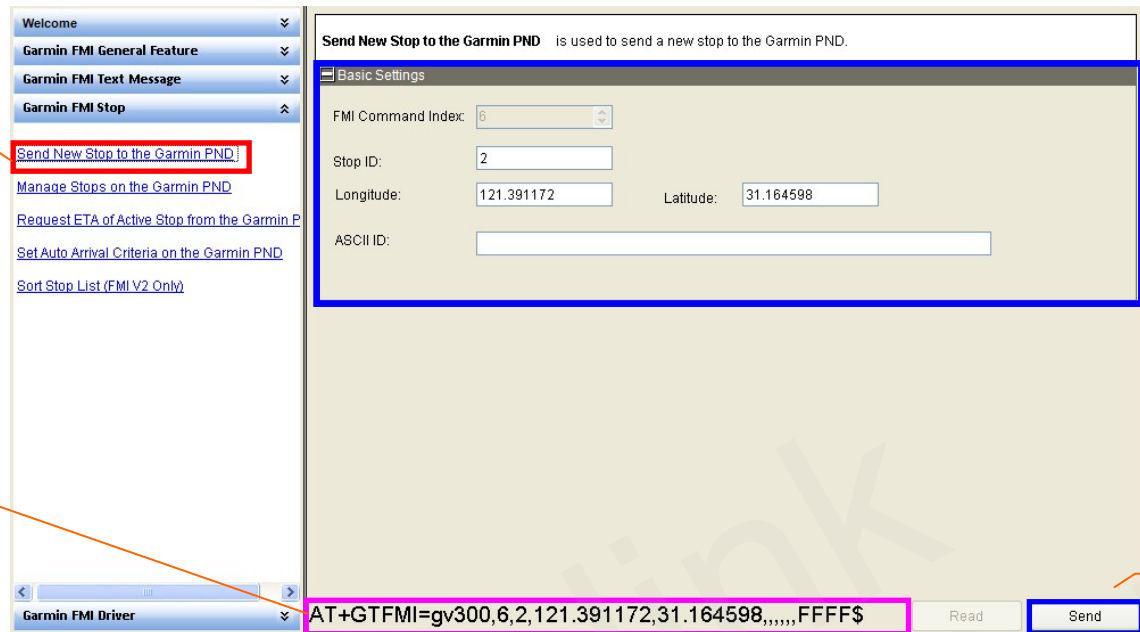
Step_1: Select “Request Message Status”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Request Message Status parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.19. Send New Stop to the Garmin PND



Send New Stop to the Garmin PND is used to send a new stop to the Garmin PND.

Basic Settings

FMI Command Index: 6

Stop ID: 2

Longitude: 121.391172 Latitude: 31.164598

ASCII ID:

AT+GTFMI=gv300,6,2,121.391172,31.164598,,,,,FFFF\$

Read Send

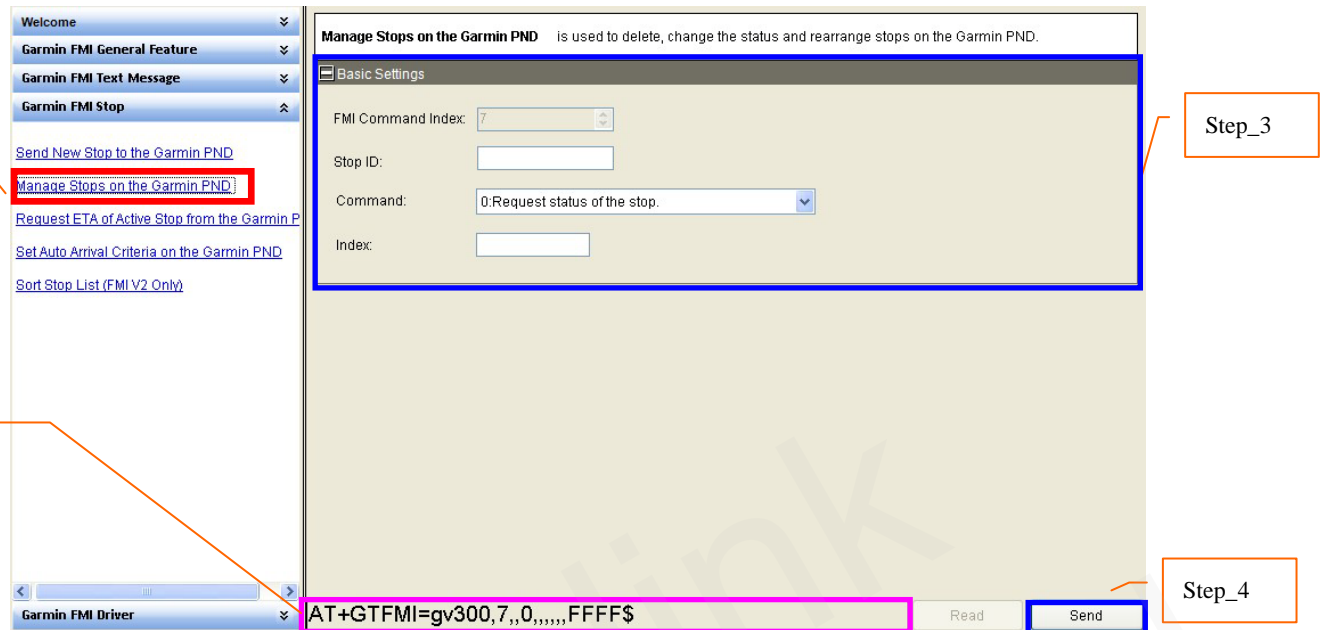
Step_1: Select “Send New Stop to the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Send New Stop to the Garmin PND parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.20. Manage Stops on the Garmin PND



The screenshot shows the 'Manage Stops on the Garmin PND' configuration window. The left sidebar contains a menu with 'Manage Stops on the Garmin PND' highlighted. The main window has a 'Basic Settings' section with the following fields:

- FMI Command Index: 7
- Stop ID: (empty)
- Command: 0:Request status of the stop.
- Index: (empty)

The bottom status bar displays the command: `AT+GTFMI=gv300,7,,0,,,,,FFFF$` and includes 'Read' and 'Send' buttons.

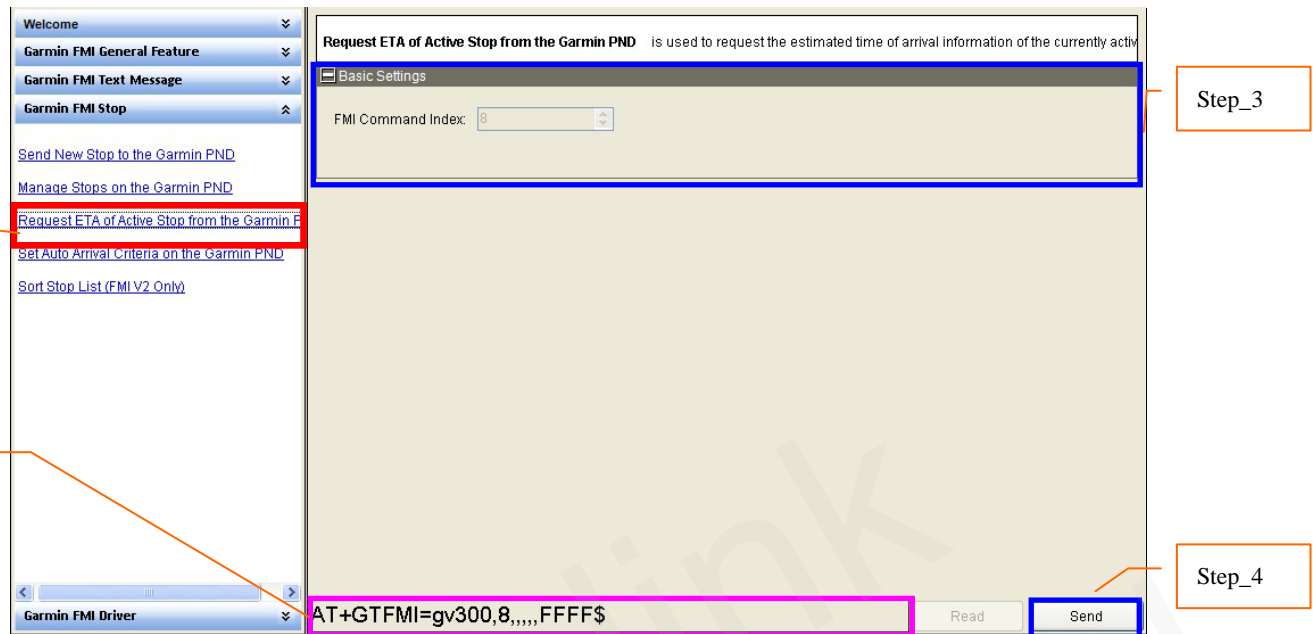
Step_1: Select “Manage Stops on the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Manage Stops on the Garmin PND parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.21. Request ETA of Active Stop from the Garmin PND



The screenshot shows the 'GARMIN-FMI Manage Tool' interface. On the left, a sidebar menu contains several options, with 'Request ETA of Active Stop from the Garmin PND' highlighted in red. The main window displays the configuration for this feature, including a 'Basic Settings' section with an 'FMI Command Index' dropdown set to '8'. At the bottom, a text input field contains the command 'AT+GTFMI=gv300,8,,,,,FFFF\$' and a 'Send' button.

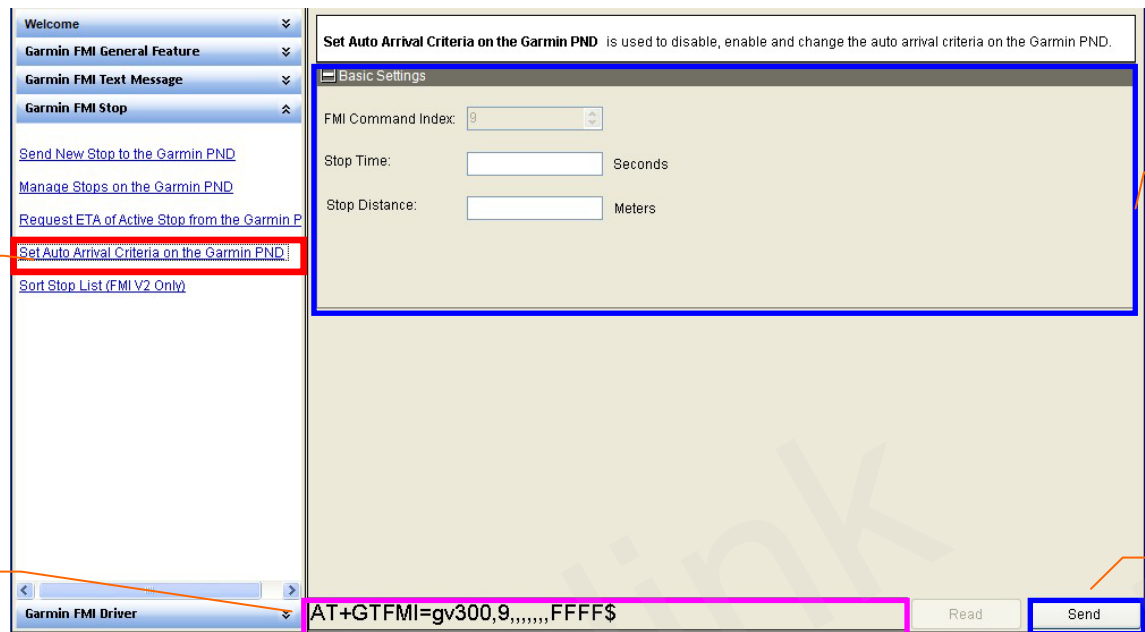
Step_1: Select “Request ETA of Active Stop from the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Request ETA of Active Stop from the Garmin PND parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.22. Set Auto Arrival Criteria on the Garmin PND



The screenshot shows the 'GARMIN-FMI Manage Tool' interface. On the left, a sidebar menu has 'Set Auto Arrival Criteria on the Garmin PND' highlighted. The main window title is 'Set Auto Arrival Criteria on the Garmin PND is used to disable, enable and change the auto arrival criteria on the Garmin PND.' Below the title is a 'Basic Settings' section with three input fields: 'FMI Command Index' (set to 9), 'Stop Time' (in Seconds), and 'Stop Distance' (in Meters). At the bottom, a text input field contains the command 'AT+GTFMI=gv300,9,,,,,,FFFF\$' and a 'Send' button is visible.

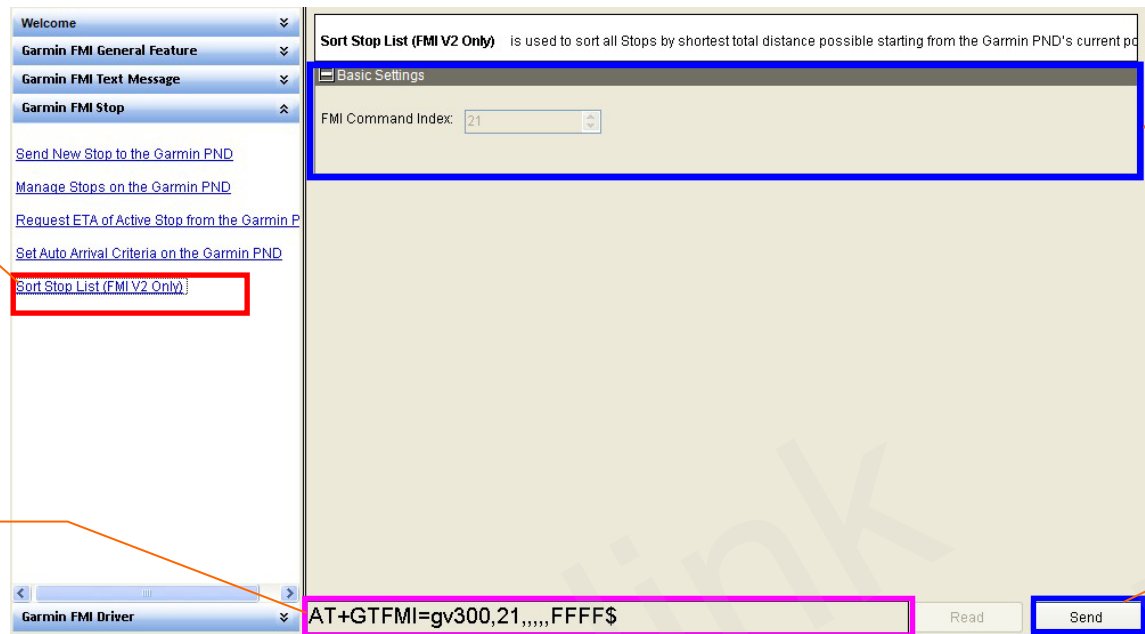
Step_1: Select “Set Auto Arrival Criteria on the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Auto Arrival Criteria on the Garmin PND parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.23. Sort Stop List(FMI V2 Only)



The screenshot shows the 'Sort Stop List (FMI V2 Only)' configuration screen. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, Garmin FMI Text Message, and Garmin FMI Stop. Below the menu are several links: Send New Stop to the Garmin PND, Manage Stops on the Garmin PND, Request ETA of Active Stop from the Garmin P, Set Auto Arrival Criteria on the Garmin PND, and Sort Stop List (FMI V2 Only). The main content area is titled 'Sort Stop List (FMI V2 Only)' and contains a 'Basic Settings' section with an 'FMI Command Index' dropdown menu set to '21'. The bottom status bar displays the command 'AT+GTFMI=gv300,21,,,,,FFFF\$' and a 'Send' button.

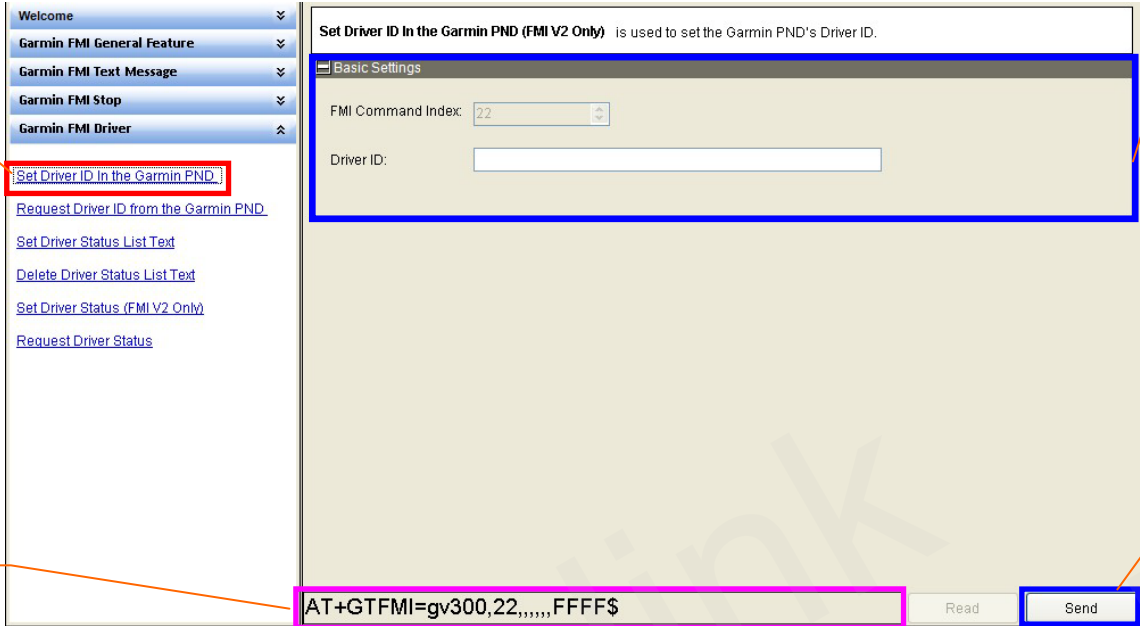
Step_1: Select “Sort Stop List(FMI V2 Only)”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Sort Stop List(FMI V2 Only) parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.24. Set Driver ID In the Garmin PND



The screenshot shows the 'GARMIN-FMI Manage Tool' interface. On the left, a sidebar menu has 'Set Driver ID In the Garmin PND' selected. The main area is titled 'Set Driver ID In the Garmin PND (FMI V2 Only) is used to set the Garmin PND's Driver ID.' Under 'Basic Settings', there is a dropdown for 'FMI Command Index' set to '22' and an empty text field for 'Driver ID'. At the bottom, a text input field contains the command 'AT+GTFMI=gv300,22,,,,,FFFF\$' and two buttons: 'Read' and 'Send'.

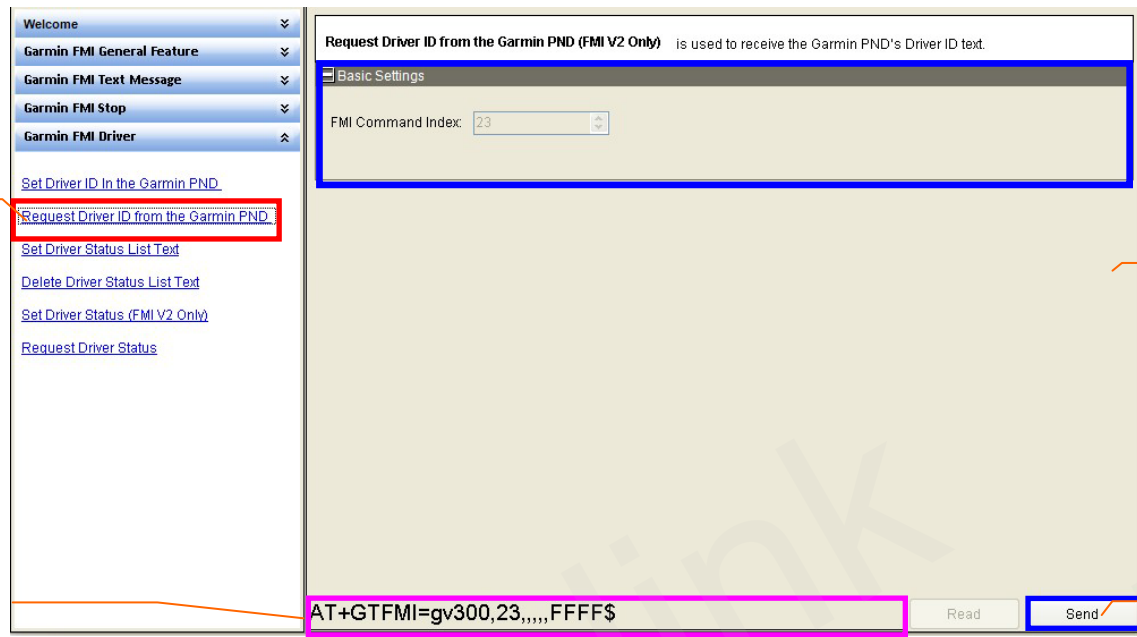
Step_1: Select “*Set Driver ID In the Garmin PND*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Driver ID In the Garmin PND parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.25. Request Driver ID from the Garmin PND



The screenshot shows the 'Request Driver ID from the Garmin PND (FMI V2 Only)' configuration page. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, Garmin FMI Text Message, Garmin FMI Stop, and Garmin FMI Driver. Under the 'Garmin FMI Driver' section, the following options are listed: Set Driver ID In the Garmin PND, Request Driver ID from the Garmin PND (highlighted with a red box), Set Driver Status List Text, Delete Driver Status List Text, Set Driver Status (FMI V2 Only), and Request Driver Status. The main content area has a title 'Request Driver ID from the Garmin PND (FMI V2 Only) is used to receive the Garmin PND's Driver ID text.' Below the title is a 'Basic Settings' section with an 'FMI Command Index' dropdown menu set to '23'. At the bottom, there is a text input field containing the command 'AT+GTFMI=gv300,23,,,,,FFFF\$' and a 'Send' button.

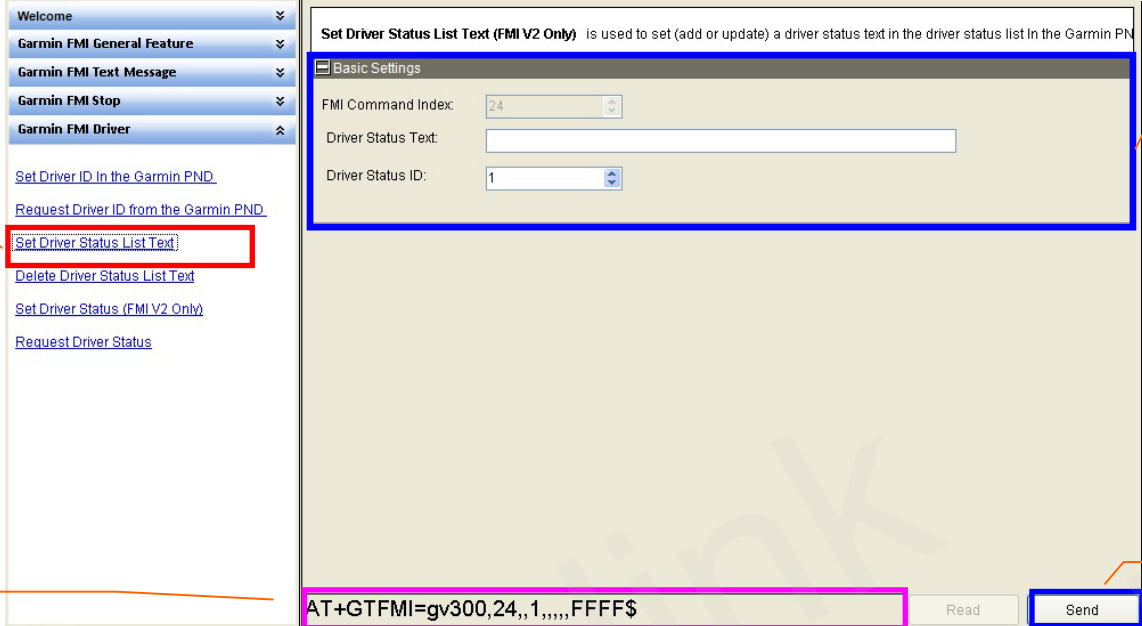
Step_1: Select “*Request Driver ID from the Garmin PND*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Request Driver ID from the Garmin PND parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.26. Set Driver Status List Text



The screenshot shows the 'Set Driver Status List Text (FMI V2 Only)' configuration page. The left sidebar contains a menu with 'Set Driver Status List Text' highlighted. The main area has 'Basic Settings' with the following fields:

- FMI Command Index: 24
- Driver Status Text: (empty text box)
- Driver Status ID: 1

The command area at the bottom displays the generated command: `AT+GTFMI=gv300,24,,1,,,,FFFF$`. The 'Send' button is located at the bottom right.

Step_1: Select “*Set Driver Status List Text*”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Driver Status List Text parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.27. Delete Driver Status List Text

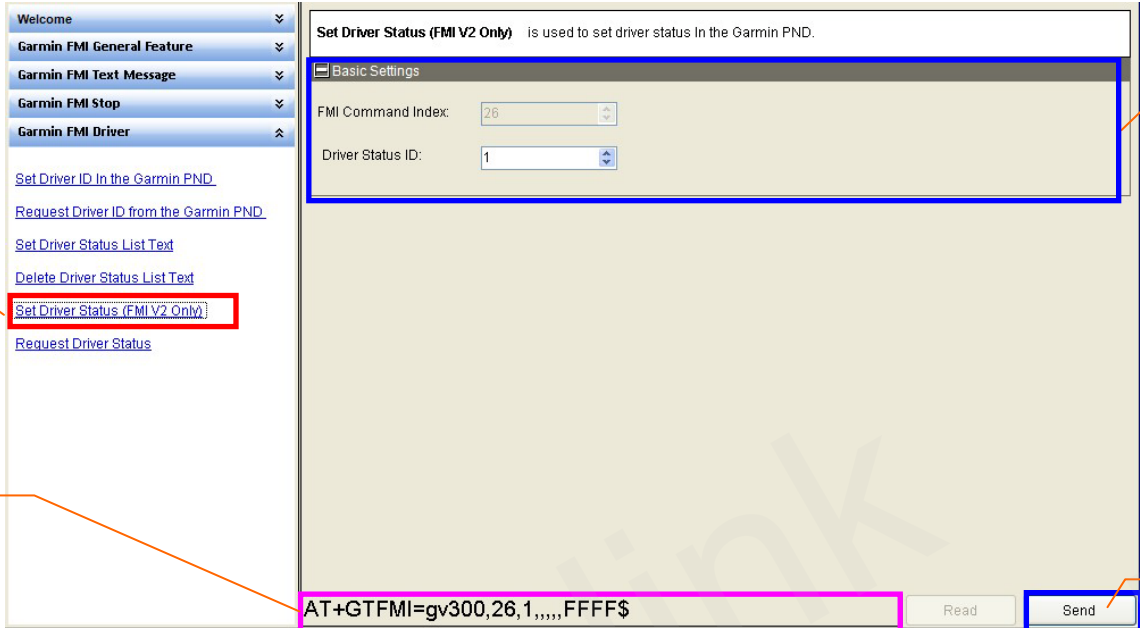
Step_1: Select “Delete Driver Status List Text”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Delete Driver Status List Text parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.28. Set Driver Status(FMI V2 Only)



The screenshot shows the 'Set Driver Status (FMI V2 Only)' configuration page. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, Garmin FMI Text Message, Garmin FMI Stop, and Garmin FMI Driver. Below the menu are several links: Set Driver ID In the Garmin PND, Request Driver ID from the Garmin PND, Set Driver Status List Text, Delete Driver Status List Text, Set Driver Status (FMI V2 Only), and Request Driver Status. The main configuration area has a title 'Set Driver Status (FMI V2 Only) is used to set driver status In the Garmin PND.' and a 'Basic Settings' section. This section contains two dropdown menus: 'FMI Command Index' set to 26 and 'Driver Status ID' set to 1. At the bottom, there is a command input field containing 'AT+GTFMI=gv300,26,1,,,,,FFFF\$' and a 'Send' button.

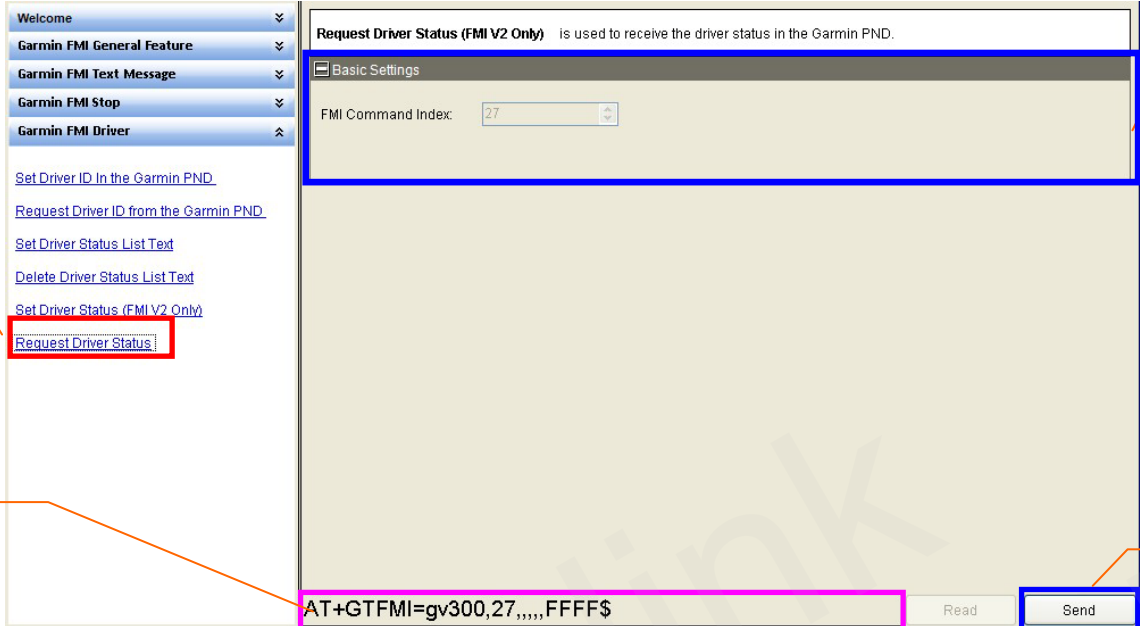
Step_1: Select “Set Driver Status(FMI V2 Only)”, after that the parameters of GTFMI show in Command Operation Space.

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

Step_3: Set the Set Driver Status(FMI V2 Only) parameters. Please refer to “@Track Air Interface for Garmin-FMI Protocol” for the meaning of each parameter.

Step_4: Click the “Send” button; download the parameters of GTFMI to GARMIN-FMI.

3.1.29. Request Driver Status



The screenshot shows the 'Request Driver Status (FMI V2 Only)' configuration page. The left sidebar contains a menu with 'Request Driver Status' highlighted. The main content area has a dropdown for 'FMI Command Index' set to '27'. Below this is a large text area for the command, which contains 'AT+GTFMI=gv300,27,,,,,FFFF\$'. At the bottom right, there are 'Read' and 'Send' buttons.

Step_1: Select “*Request Driver Status*”, after that the parameters of GTFMI show in Command Operation Space.

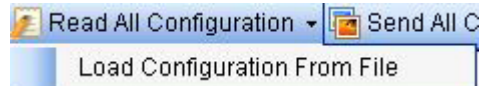
Step_2: The command message which shall be sent to GARMIN-FMI will be generated based on input and displayed here. Please note this command message can also be sent to GARMIN-FMI through SMS or GPRS.

Step_3: Set the Request Driver Status parameters. Please refer to “*@Track Air Interface for Garmin-FMI Protocol*” for the meaning of each parameter.

Step_4: Click the “*Send*” button; download the parameters of GTHMI to GARMIN-FMI.

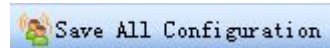
3.2. Read/Save All Configuration

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

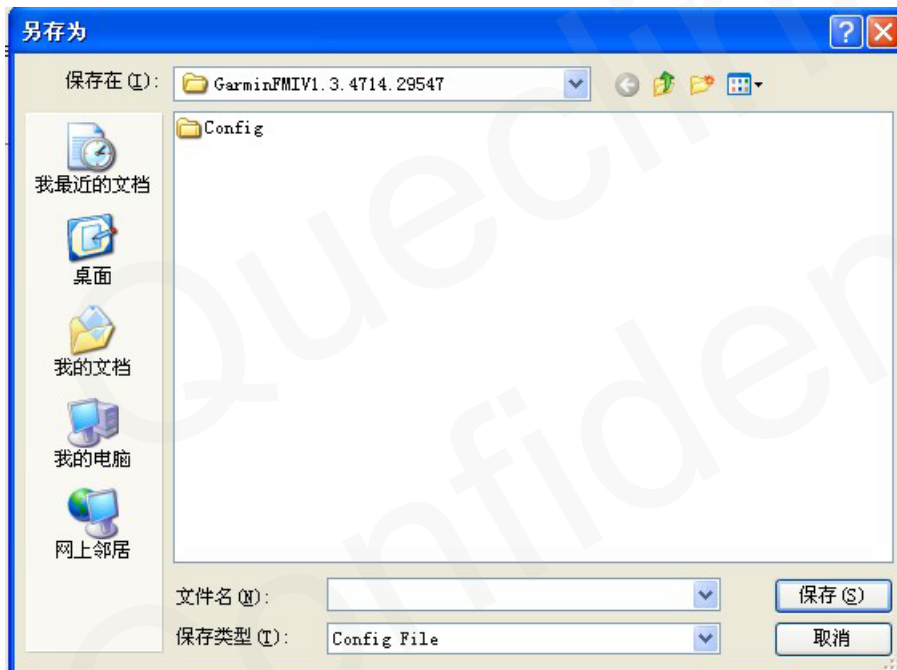


NOTE: Command GTDAT will not be read when “*Read From Device*”.

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



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



Step_4: Save successfully.



3.3. 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.

