



# Garmin-FMI Manage Tool User Guide

Application Notes: TRACGarminMT001

Revision: 1.01



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## 1. Revision History

Revision	Date	Author	Description of change
1.00	2012-11-28	Cindy Chen	Initial
1.01	2014-3-7	Happy Peng	1. Add Protocol Version in About interface 2. Add new parameters <Auto Enable> and <Command Store Mask> in command GTFMI-0

## 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

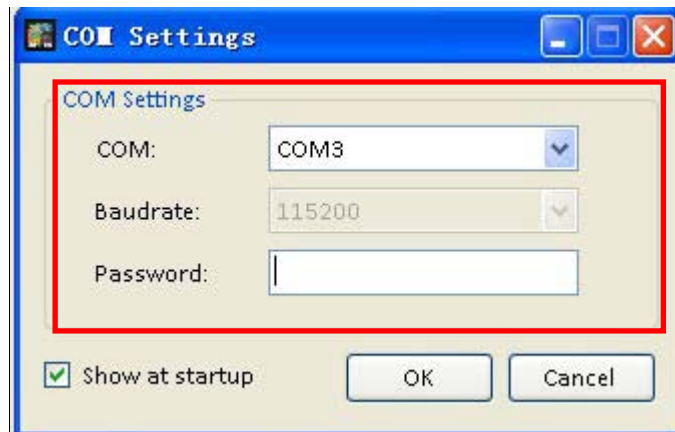
In order for this manage tool to run on your computer, you must use it in below operating system:

- ◆ 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:

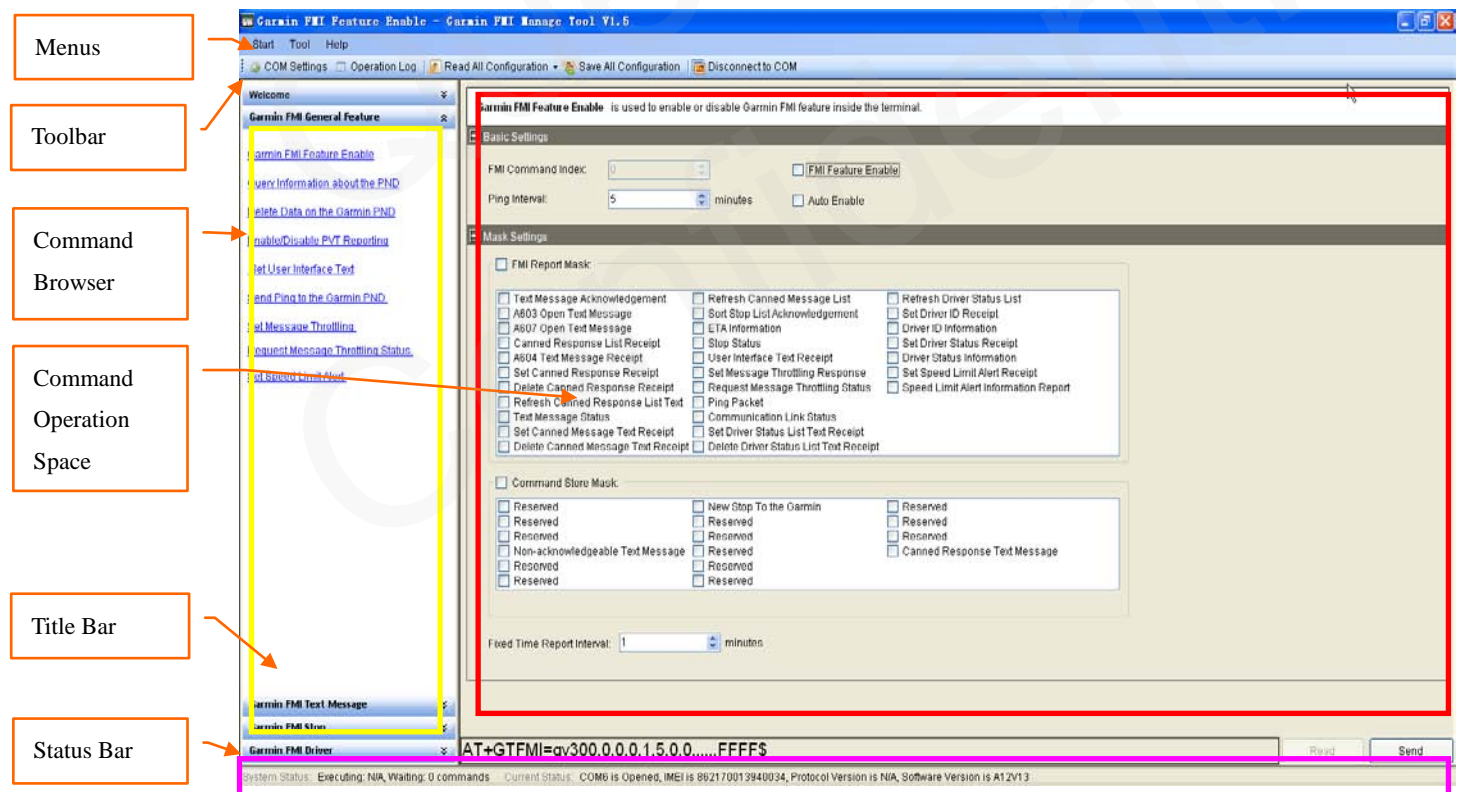
- ◆ Microsoft .NET Framework 2.0 or higher

## 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

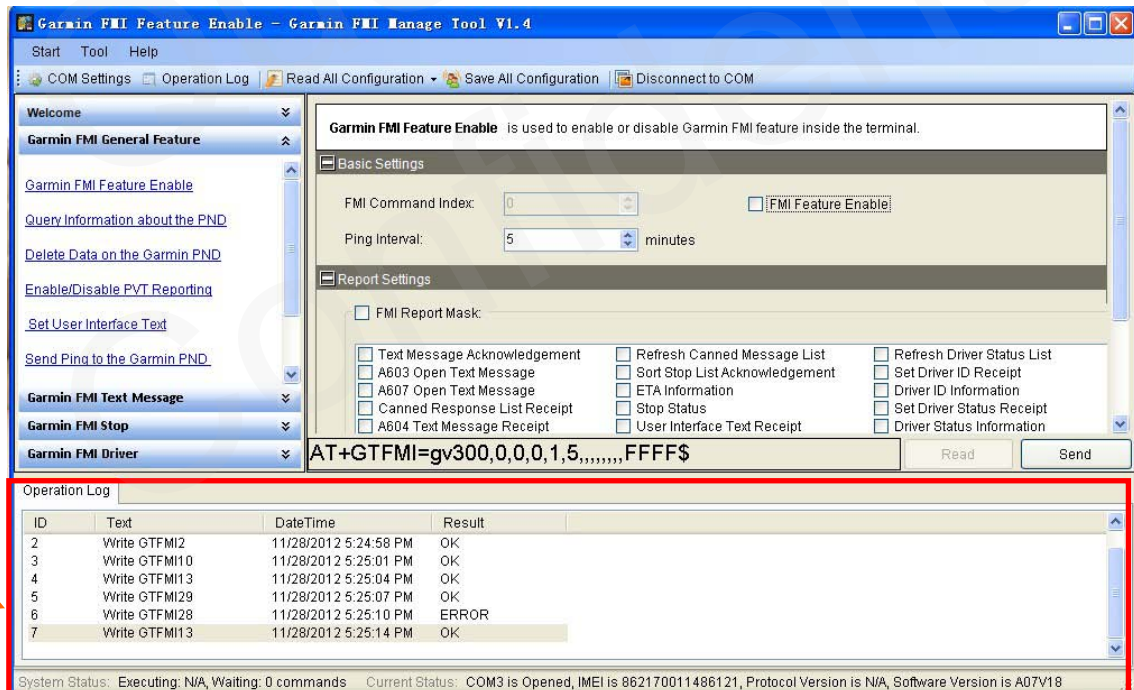
Start menu include “COM Settings”.

**[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

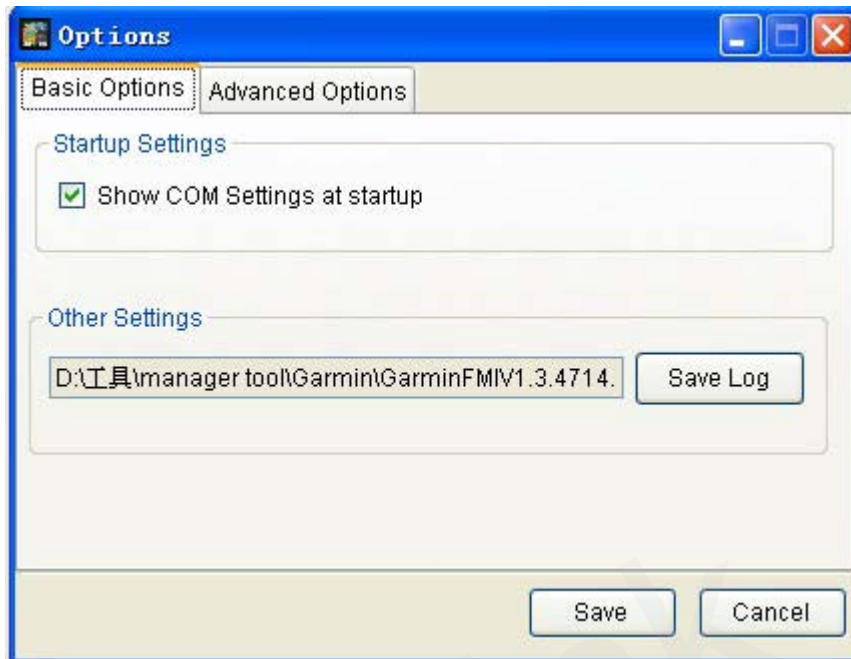
Tool menu include”Operation Log”, “Options” setting.

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



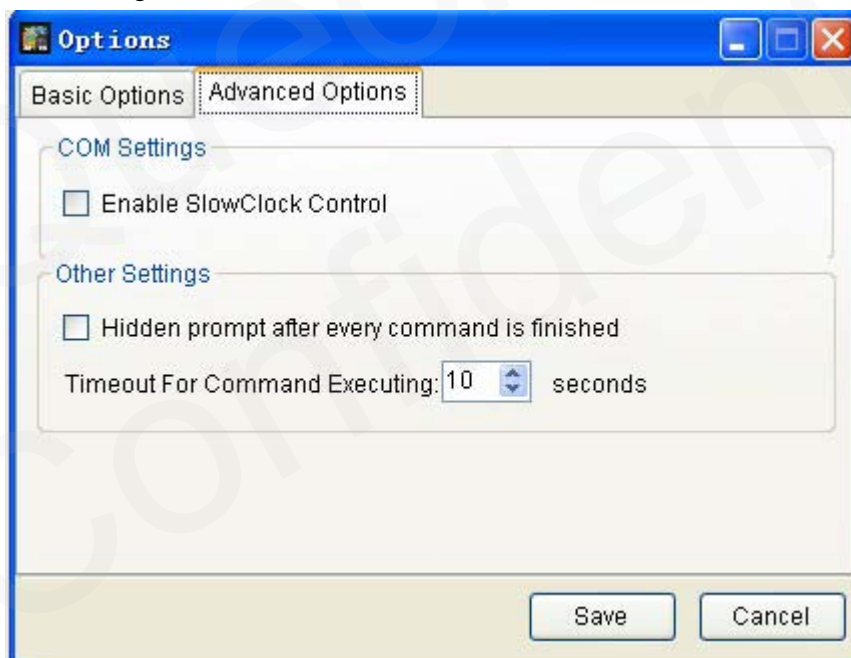
**[Options]:** It is used to set the basic setting of manage tool.

“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.

“*Protocol Version*” indicates the protocol version of Garmin-FMI.

### 2.3.3. Toolbar

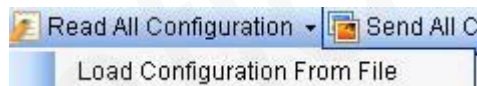
It include “*COM Setting*”, “*Operation Log*”, “*Real All Configuration*”, “*Save All Configuration*”, “*Connect/Disconnect to COM*”.



**[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

The screenshot shows the 'Garmin FMI General Feature' configuration page. The left sidebar contains a list of commands, with 'Garmin FMI Text Message', 'Garmin FMI Stop', and 'Garmin FMI Driver' visible. The main area is titled 'Garmin FMI Feature Enable' and contains several sections of checkboxes for configuring FMI features. A yellow box highlights the title, a red box highlights the main configuration area, and a blue box highlights the 'Send' button. A pink box highlights the command text field containing 'AT+GTFMI=gv300,0,0,0,1,5,0,0,,,,,FFFF\$'.

**[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.

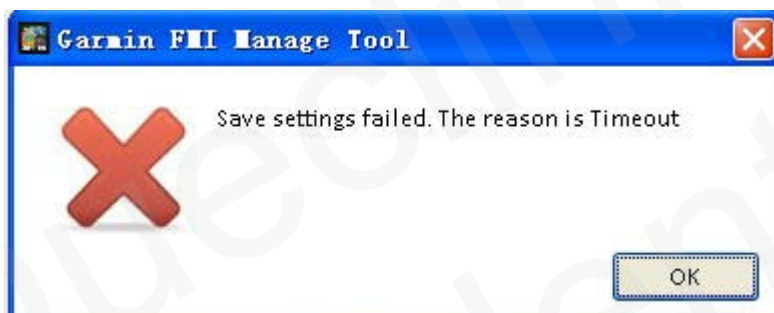
## 2.4. Operation Result Interface

### 2.4.1. Operation Successfully Interface

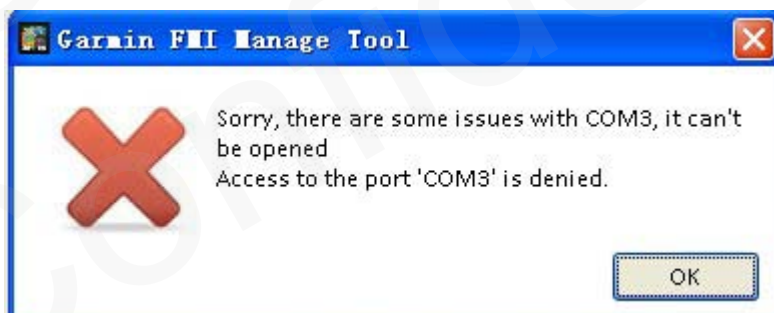


### 2.4.2. Operation Failed Interface

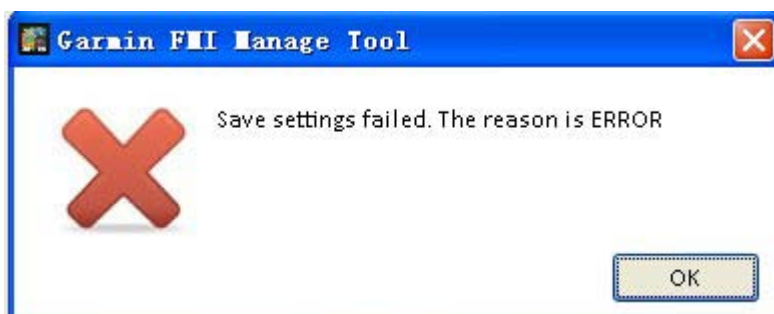
There should be COM port connection problem if the fail reason is timeout.



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



Please change to correct device password if Password Error.



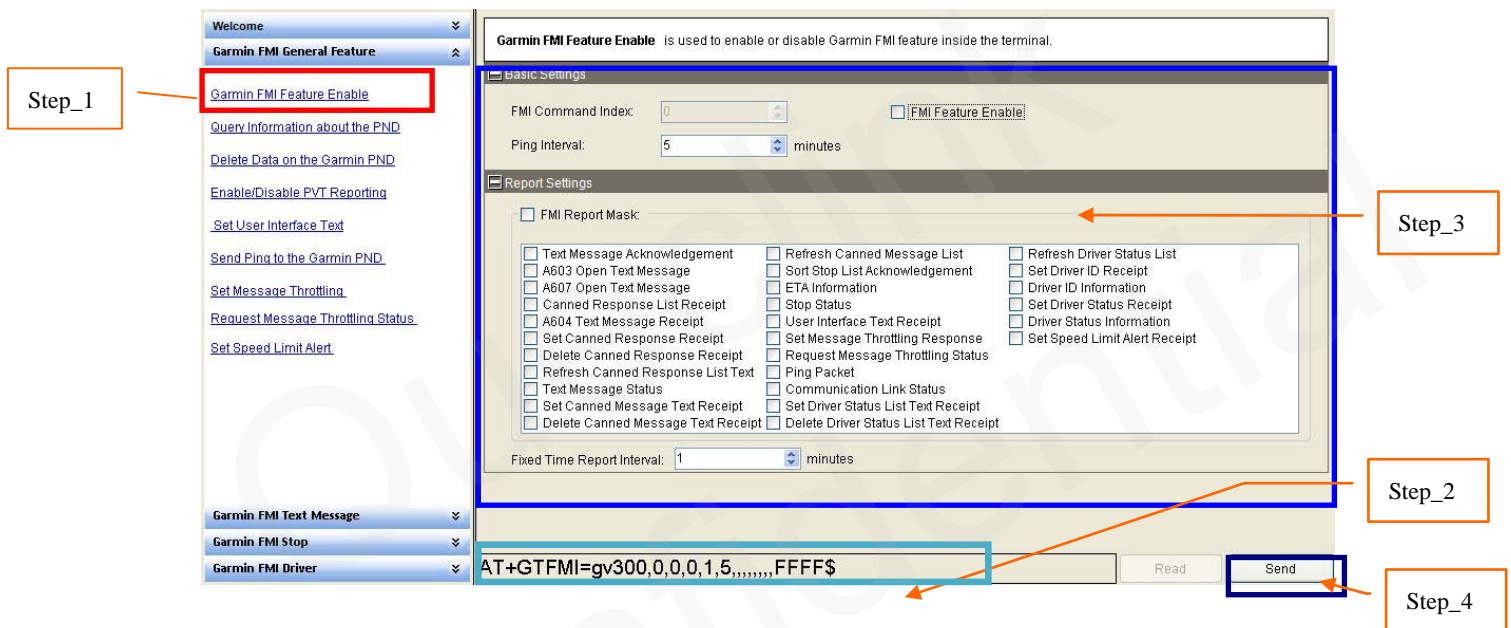
### 3. Operation Instruction

#### 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



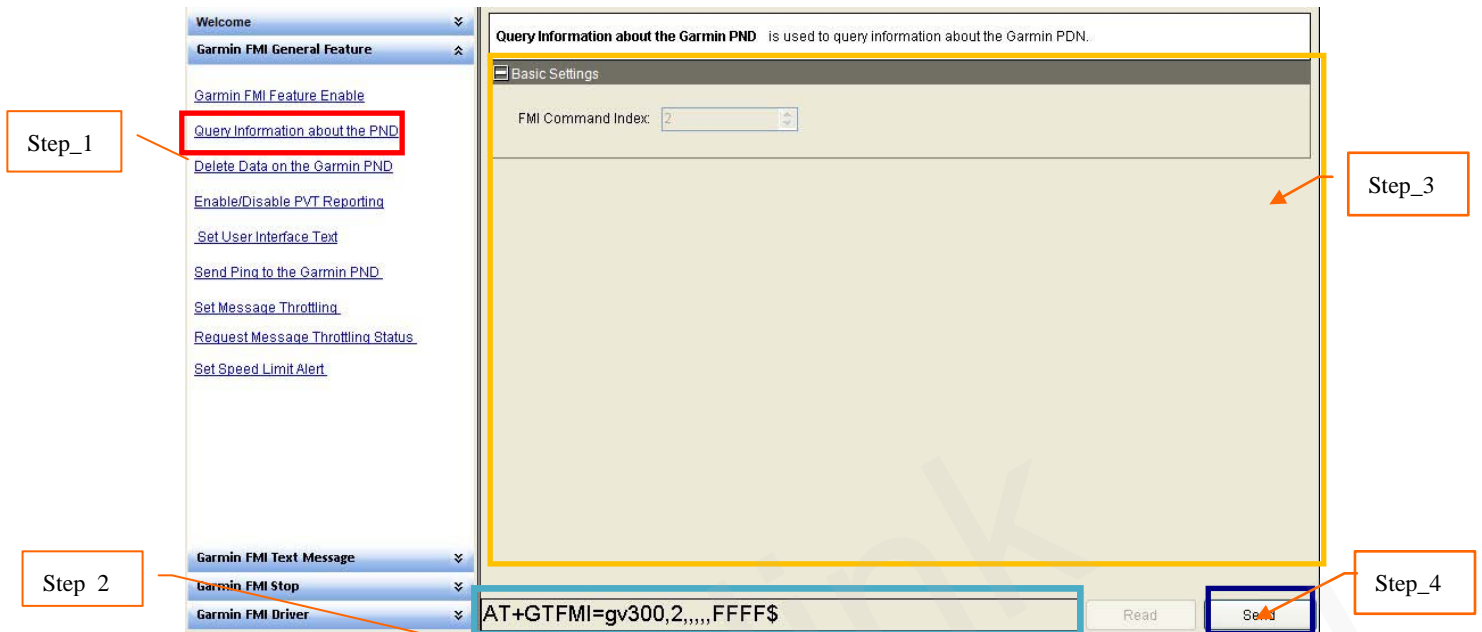
**Step\_1:** Select “Garmin FMI Feature Enable”, after that the parameters of GTFMI show in Command Operation Space.

**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. Annotations 'Step\_1' through 'Step\_4' are placed around the interface to guide the user through the process.

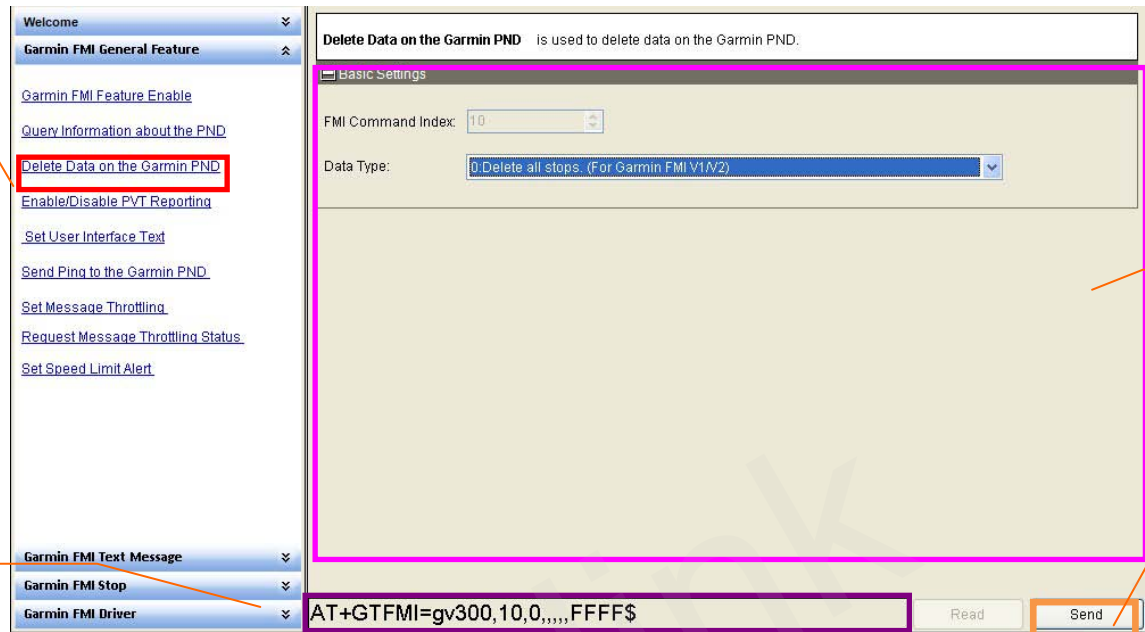
**Step\_1:** Select “*Query Information about the PND*”, after that the parameters of GTFMI show in Command Operation Space.

**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 the following items: Welcome, Garmin FMI General Feature (expanded), Garmin FMI Feature Enable, Query Information about the PND, **Delete Data on the Garmin PND** (highlighted with a red box), Enable/Disable PVT Reporting, Set User Interface Text, Send Ping to the Garmin PND, Set Message Throttling, Request Message Throttling Status, Set Speed Limit Alert, Garmin FMI Text Message, Garmin FMI Stop, and Garmin FMI Driver. The main configuration area is titled 'Delete Data on the Garmin PND' and is used to delete data on the Garmin PND. It contains a 'Basic Settings' section with 'FMI Command Index' set to 10 and 'Data Type' set to '0: Delete all stops. (For Garmin FMI V1/V2)'. The bottom command field contains the text 'AT+GTFMI=gv300,10,0,,,,,FFFF\$' and has 'Read' and 'Send' buttons. Four callout boxes labeled Step\_1, Step\_2, Step\_3, and Step\_4 point to the menu item, the command field, the configuration area, and the Send button respectively.

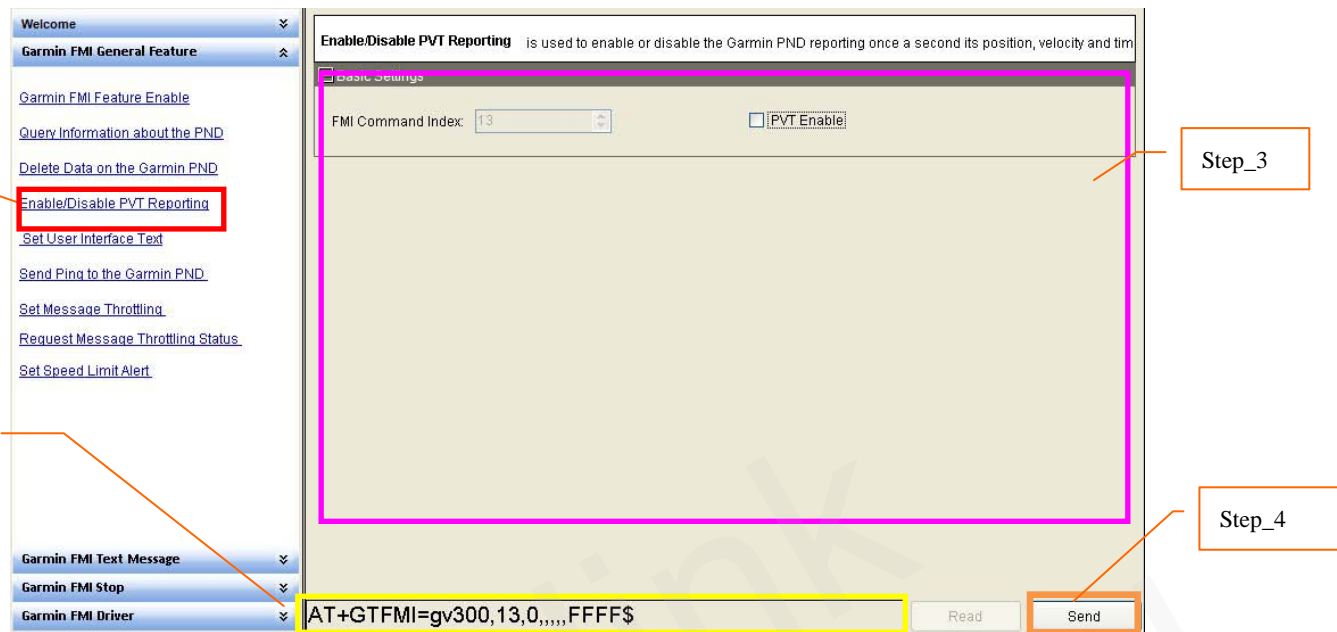
**Step\_1:** Select “Delete Data on the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

**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 under 'Garmin FMI General Feature'. The 'Enable/Disable PVT Reporting' option is highlighted with a red box and labeled 'Step\_1'. Below the menu, a large configuration window is open. The title bar of this window reads 'Enable/Disable PVT Reporting is used to enable or disable the Garmin PND reporting once a second its position, velocity and tim'. Inside the window, there is a 'Basic Settings' section with a text input field for 'FMI Command Index' containing the value '13' and a checkbox labeled '[PVT Enable]'. A yellow box highlights the command input field at the bottom of the tool, which contains the text 'AT+GTFMI=gv300,13,0,,,,,FFFF\$'. This field is labeled 'Step\_2'. To the right of the command field are 'Read' and 'Send' buttons. The 'Send' button is highlighted with a red box and labeled 'Step\_4'. The main configuration area is outlined with a purple box and labeled 'Step\_3'.

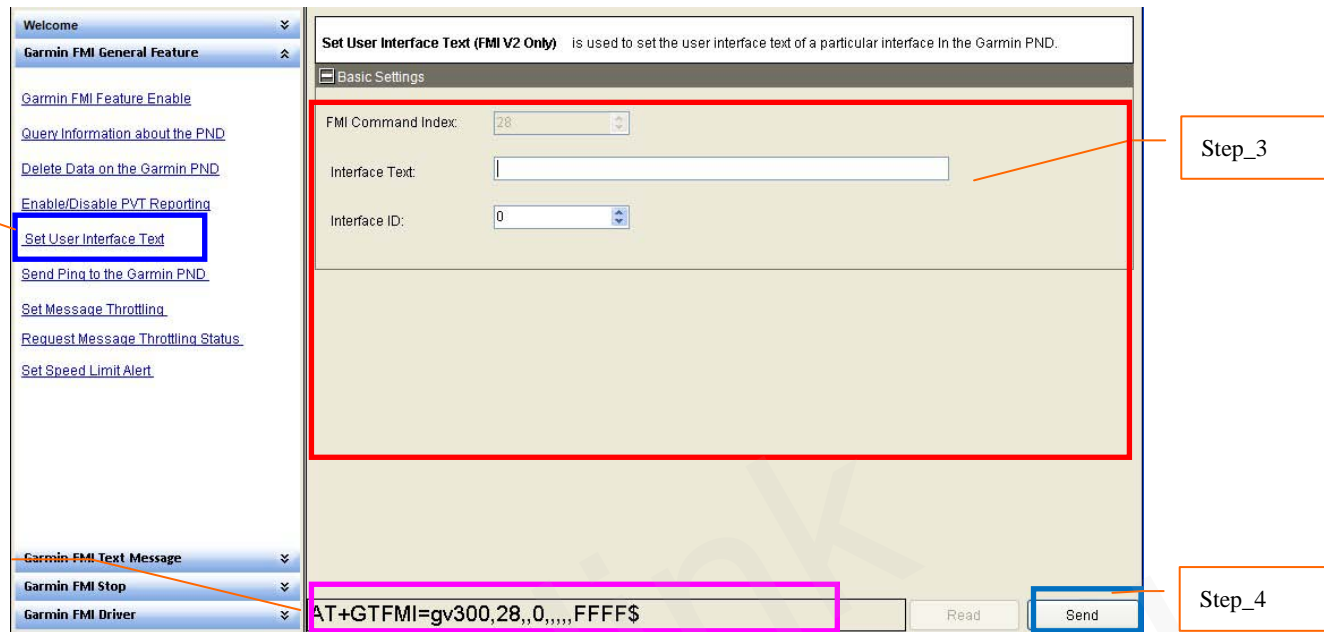
**Step\_1:** Select “*Enable/Disable PVT Reporting*”, after that the parameters of GTFMI show in Command Operation Space.

**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 content area has the following fields:

- FMI Command Index: 28
- Interface Text: (empty text box)
- Interface ID: 0

The bottom command input area shows the command: `AT+GTFMI=gv300,28,,0,,,,FFFF$`. The 'Send' button is highlighted.

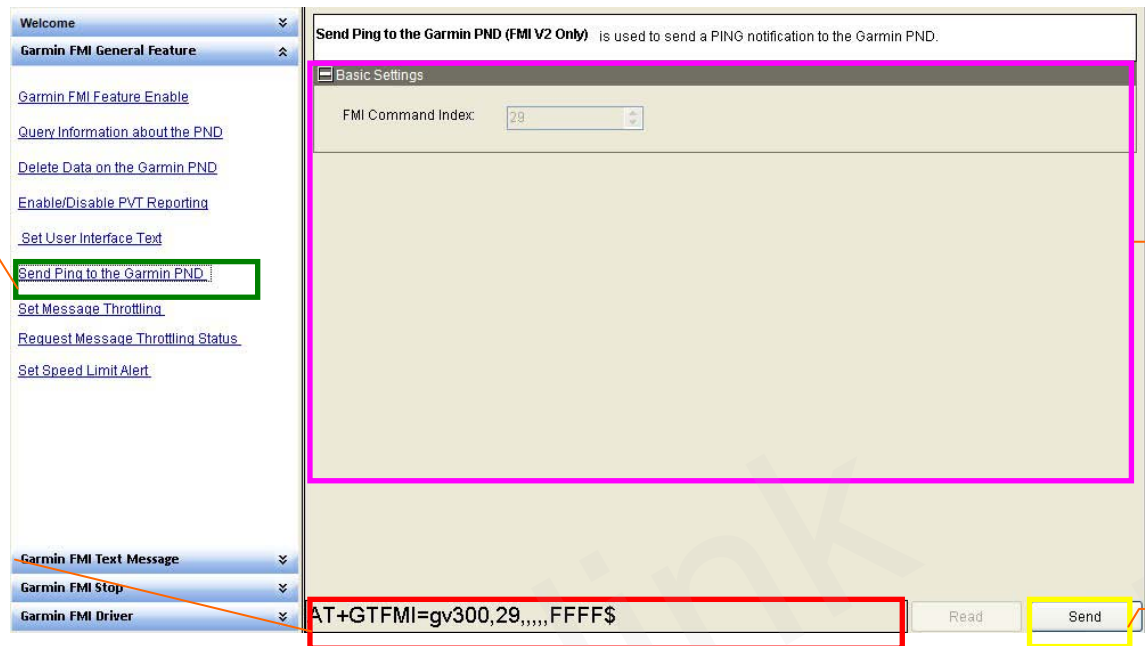
**Step\_1:** Select “Set User Interface Text”, after that the parameters of GTFMI show in Command Operation Space.

**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



The screenshot shows the 'Send Ping to the Garmin PND (FMI V2 Only)' configuration page. The left sidebar contains a menu with 'Send Ping to the Garmin PND' highlighted. The main area has a 'Basic Settings' section with an 'FMI Command Index' dropdown set to '29'. At the bottom, a text input field contains the command 'AT+GTFMI=gv300,29,,,,,FFFF\$' and a 'Send' button.

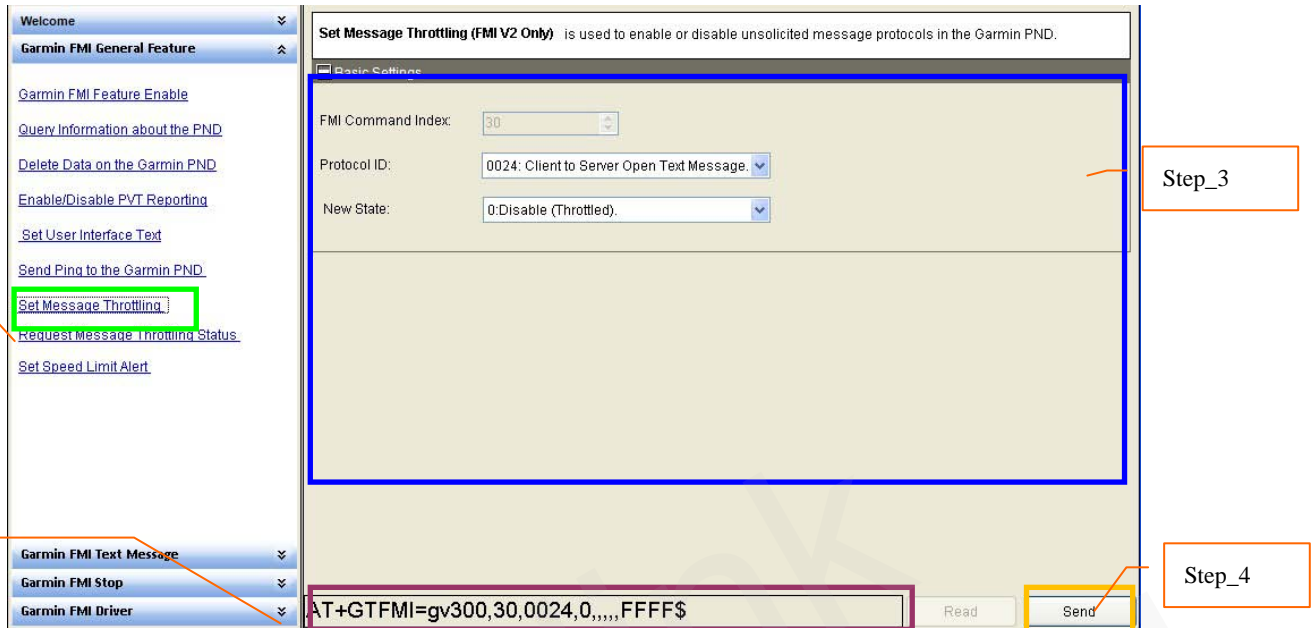
**Step\_1:** Select “Send Ping to the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

**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



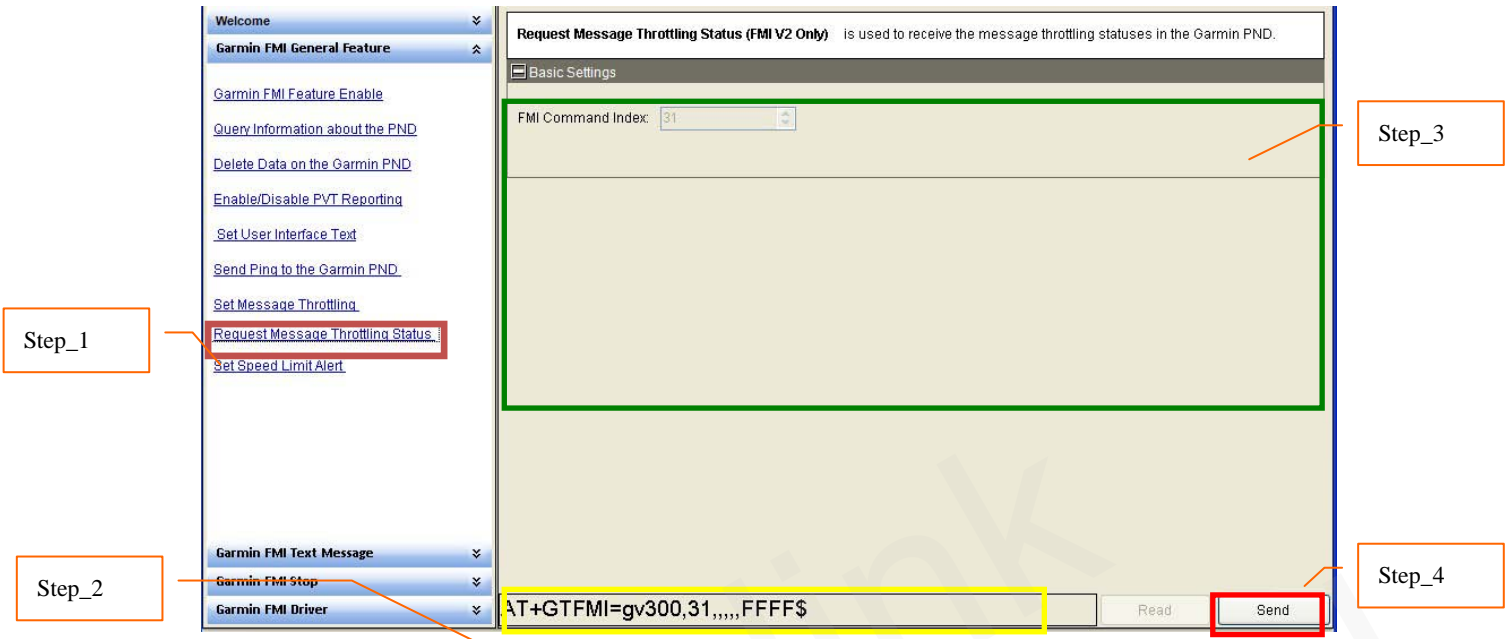
**Step\_1:** Select “Set Message Throttling”, after that the parameters of GTFMI show in Command Operation Space.

**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



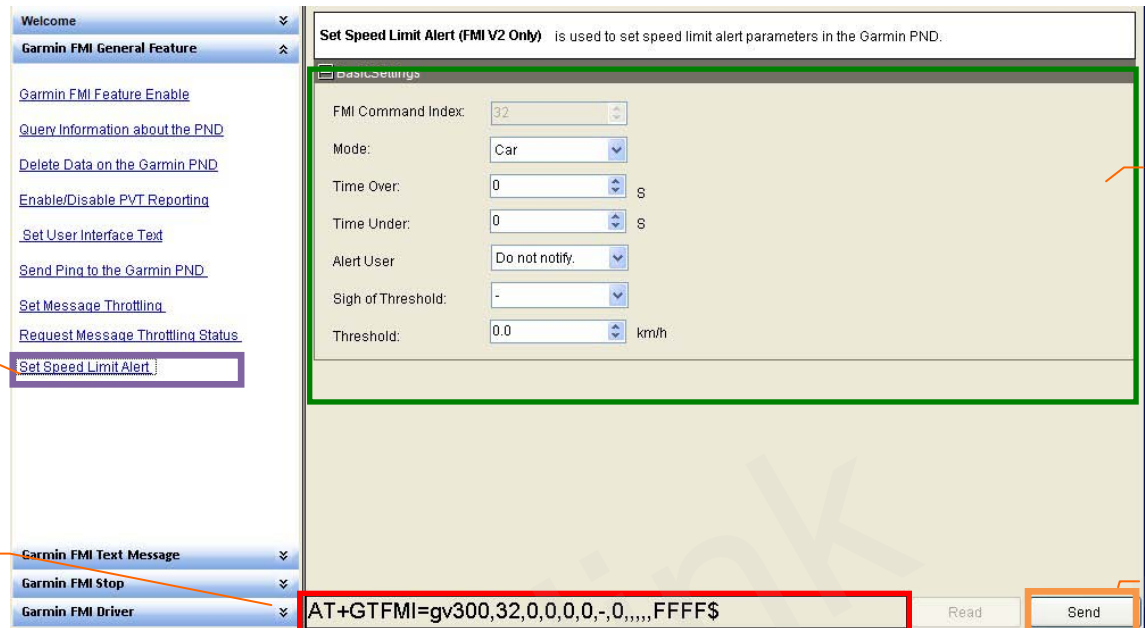
**Step\_1:** Select “*Request Message Throttling Status*”, after that the parameters of GTFMI show in Command Operation Space.

**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 window. The left sidebar contains the following menu items:

- Welcome
- Garmin FMI General Feature
  - Garmin FMI Feature Enable
  - Query Information about the PND
  - Delete Data on the Garmin PND
  - Enable/Disable PVT Reporting
  - Set User Interface Text
  - Send Ping to the Garmin PND
  - Set Message Throttling
  - Request Message Throttling Status
  - Set Speed Limit Alert** (highlighted)
- Garmin FMI Text Message
- Garmin FMI Stop
- Garmin FMI Driver

The main configuration area contains the following fields:

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

At the bottom, the command text area displays: `AT+GTFMI=gv300,32,0,0,0,0,-,0,,,,,FFFF$`. The 'Send' button is highlighted.

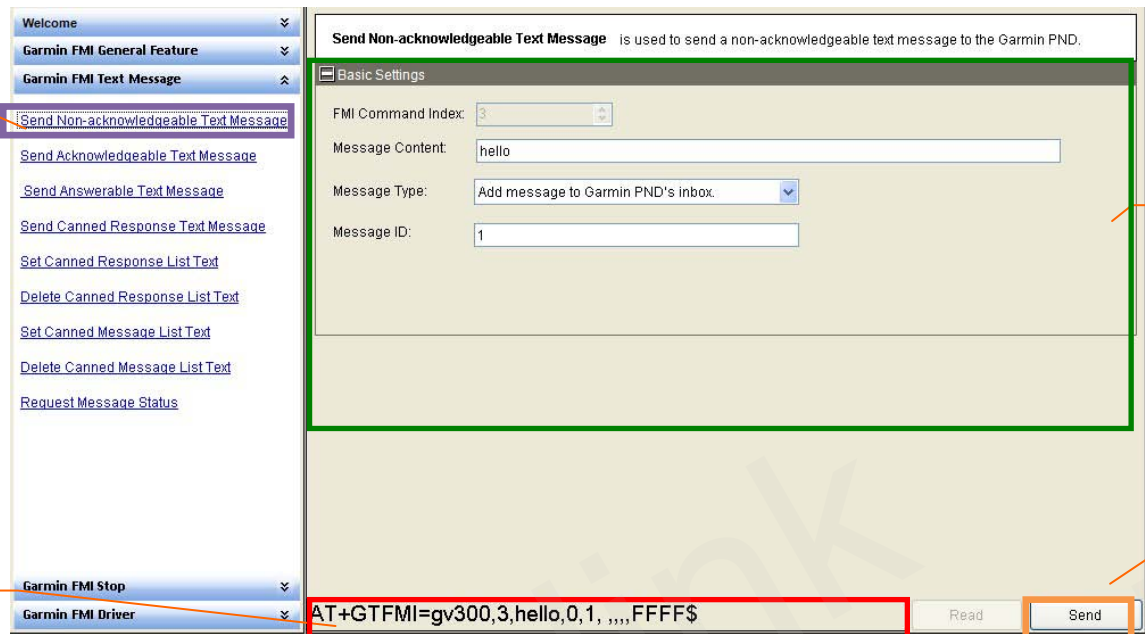
**Step\_1:** Select “Set Speed Limit Alert”, after that the parameters of GTFMI show in Command Operation Space.

**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 window. The left sidebar contains a menu with 'Send Non-acknowledgeable Text Message' selected. The main area has the following fields:

- FMI Command Index: 3
- Message Content: hello
- Message Type: Add message to Garmin PND's inbox
- Message ID: 1

The command field at the bottom displays: `AT+GTFMI=gv300,3,hello,0,1, ...,FFFF$`. The 'Send' button is located at the bottom right.

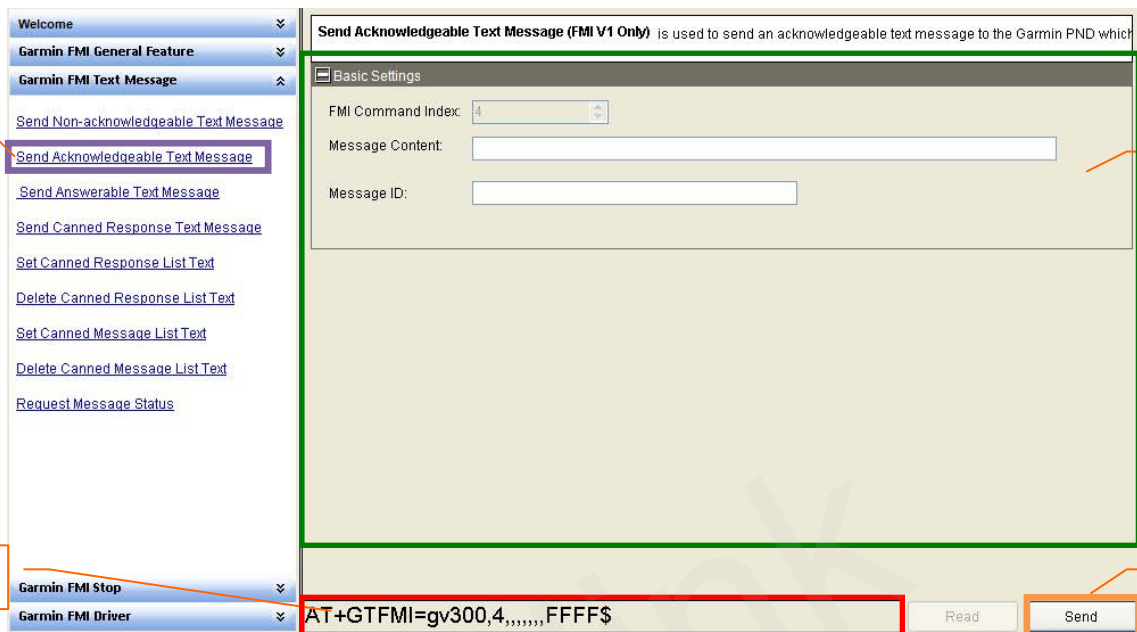
**Step\_1:** Select “*Send Non-acknowledgeable Text Message*”, after that the parameters of GTFMI show in Command Operation Space.

**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



**Step\_1** points to the menu item "Send Acknowledgeable Text Message".

**Step\_2** points to the status bar showing the command `AT+GTFMI=gv300,4,,,,,, FFFF$`.

**Step\_3** points to the "Message Content" input field.

**Step\_4** points to the "Send" button.

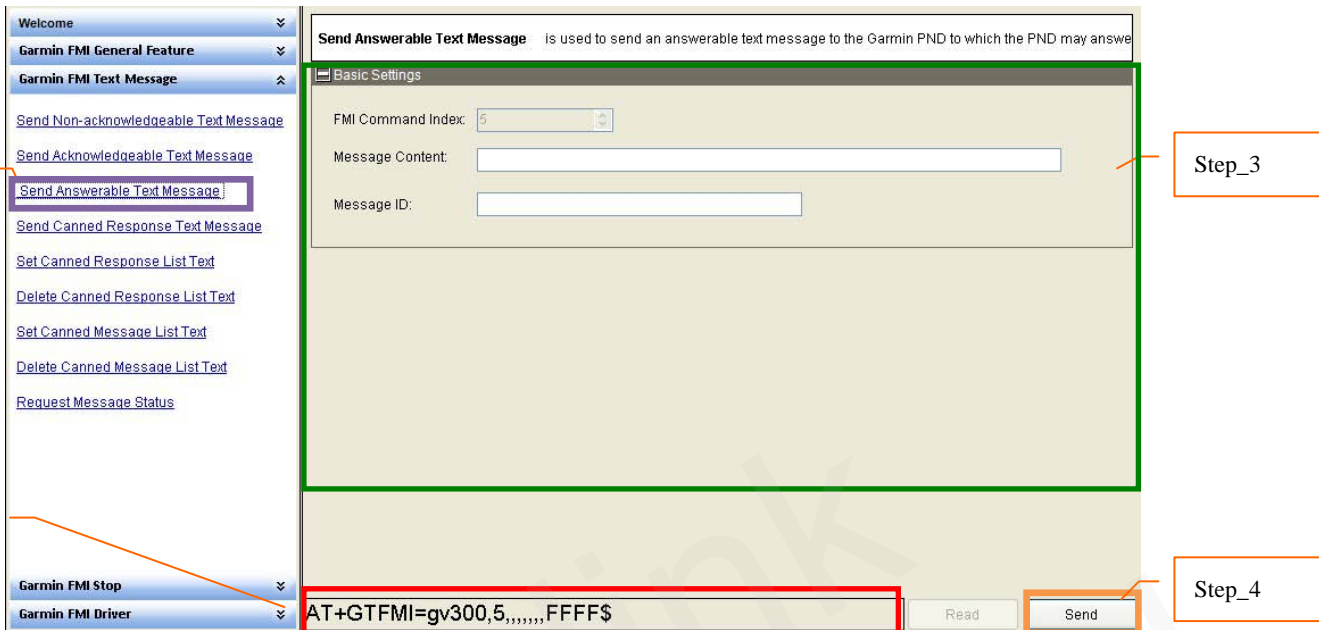
**Step\_1:** Select “Send Acknowledgeable Text Message”, after that the parameters of GTFMI show in Command Operation Space.

**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



The screenshot shows the 'Send Answerable Text Message' 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, and Request Message Status. The main configuration area has a title bar that says 'Send Answerable Text Message' and a subtitle 'is used to send an answerable text message to the Garmin PND to which the PND may answer'. Below this is a 'Basic Settings' section with three input fields: 'FMI Command Index' (set to 5), 'Message Content' (empty), and 'Message ID' (empty). At the bottom, there is a command text area containing 'AT+GTFMI=gv300,5,,,,,FFFF\$' and a 'Send' button.

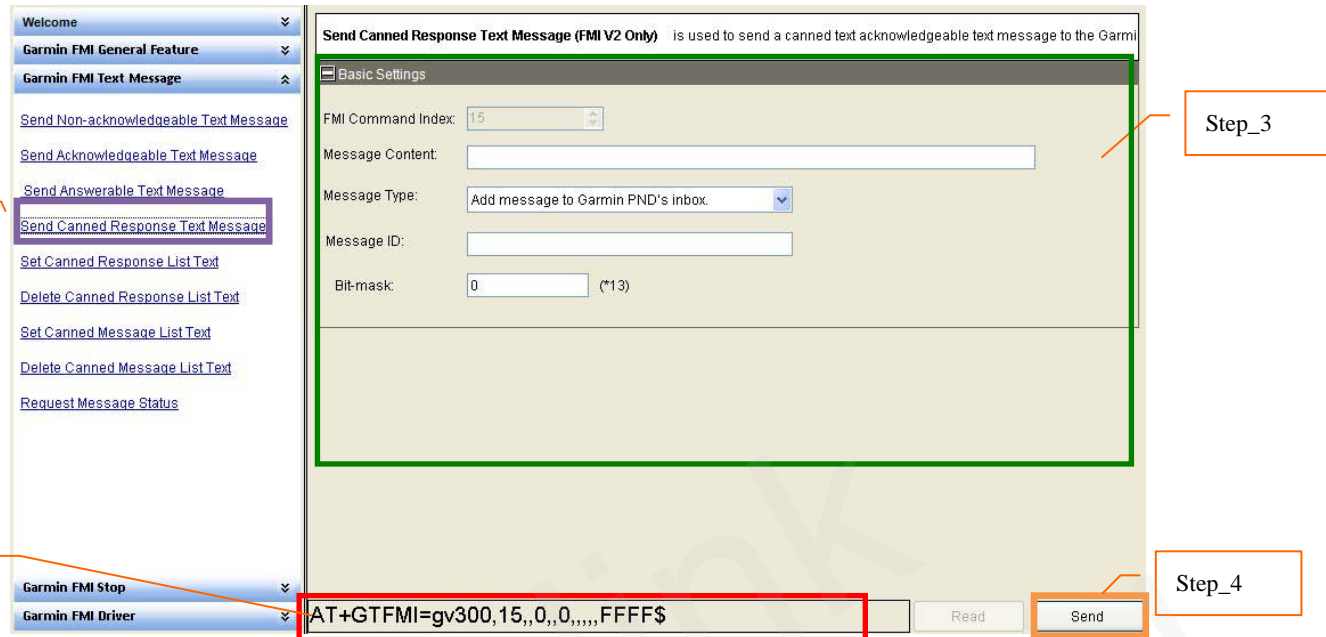
**Step\_1:** Select “*Send Answerable Text Message*”, after that the parameters of GTFMI show in Command Operation Space.

**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



The screenshot shows the 'Send Canned Response Text Message (FMI V2 Only)' configuration window. The left sidebar contains a menu with 'Send Canned Response Text Message' highlighted. The main area is titled 'Basic Settings' and contains the following fields:

- FMI Command Index: 15
- Message Content: (empty text box)
- Message Type: Add message to Garmin PND's inbox.
- Message ID: (empty text box)
- Bit-mask: 0 (\*13)

At the bottom, the command field displays `AT+GTFMI=gv300,15,,0,,0,,,,FFFF$`, and the 'Send' button is visible.

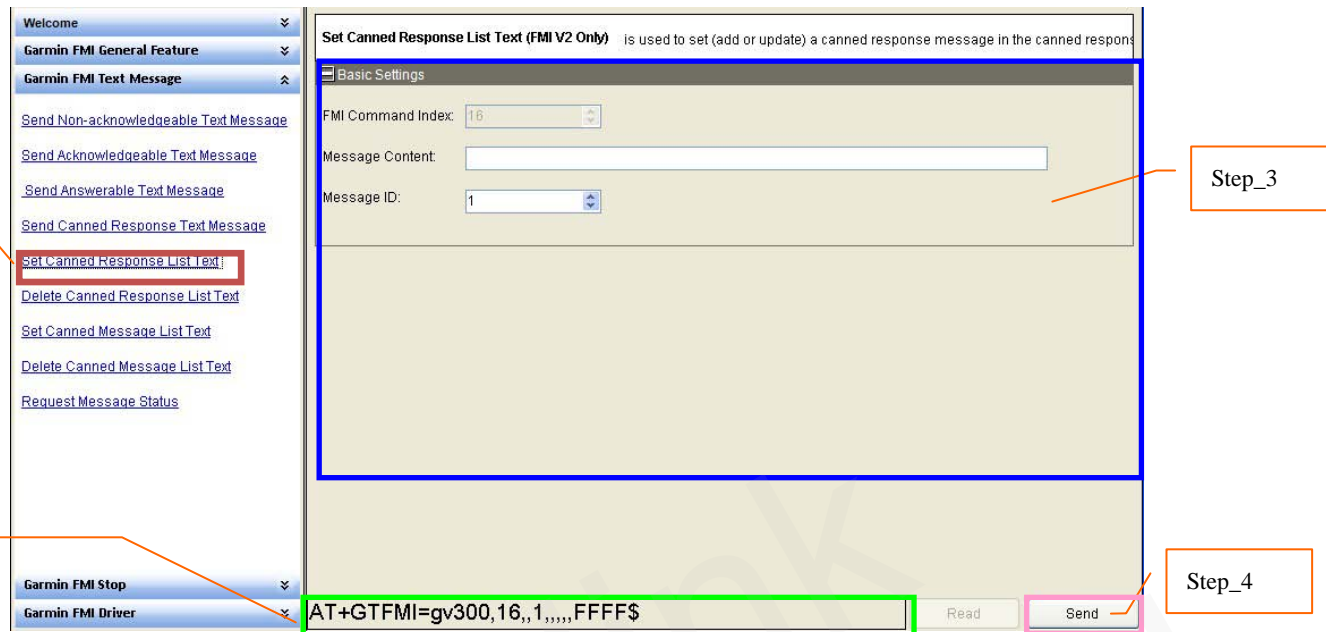
**Step\_1:** Select “Send Canned Response Text Message”, after that the parameters of GTFMI show in Command Operation Space.

**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 displays the 'Set Canned Response List Text (FMI V2 Only)' configuration page. The left sidebar contains a menu with 'Set Canned Response List Text' highlighted. The main area shows 'Basic Settings' with 'FMI Command Index' set to 16, 'Message Content' as an empty text box, and 'Message ID' set to 1. At the bottom, the command input field contains 'AT+GTFMI=gv300,16,,1,,,,,FFFF\$' and a 'Send' button is visible.

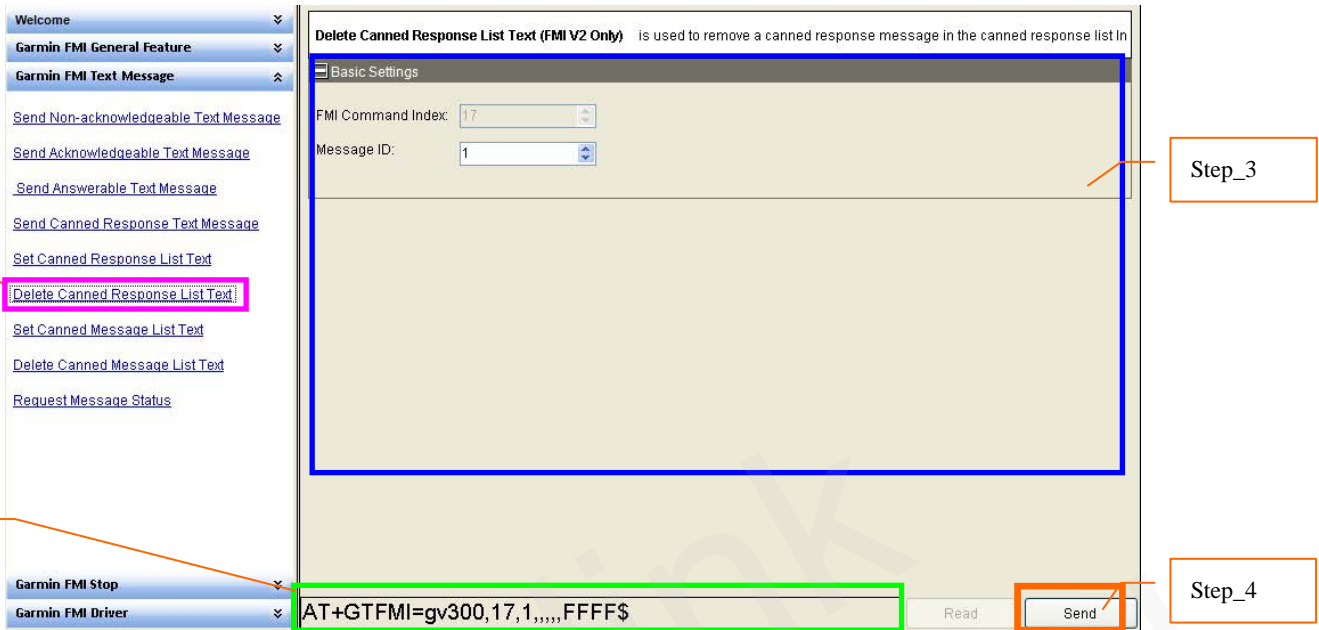
**Step\_1:** Select “Set Canned Response List Text”, after that the parameters of GTFMI show in Command Operation Space.

**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 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** (highlighted with a pink box), Set Canned Message List Text, Delete Canned Message List Text, and Request Message Status. The main configuration area has 'FMI Command Index' set to 17 and 'Message ID' set to 1. The bottom status bar shows the command 'AT+GTFMI=gv300,17,1,,,,,FFFF\$' and a 'Send' button.

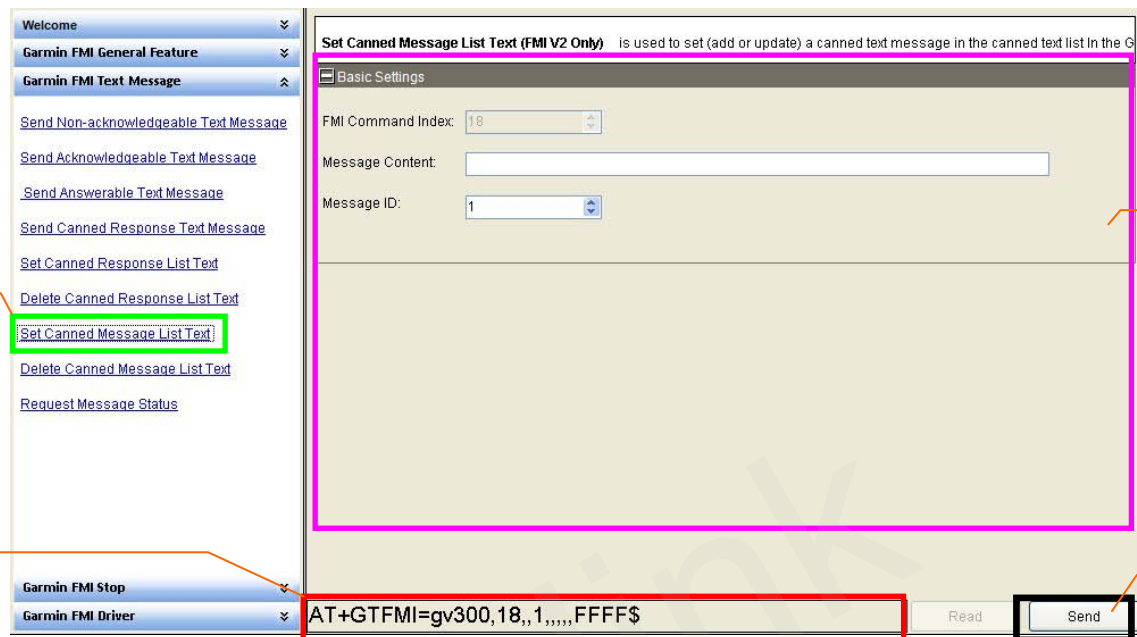
**Step\_1:** Select “Delete Canned Response List Text”, after that the parameters of GTFMI show in Command Operation Space.

**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 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, Delete Canned Response List Text, Set Canned Message List Text (highlighted in green), Delete Canned Message List Text, and Request Message Status. The main configuration area has the following fields: FMI Command Index (18), Message Content (empty text box), and Message ID (1). The bottom status bar displays the command 'AT+GTFMI=gv300,18,,1,,,,,FFFF\$' and a 'Send' button.

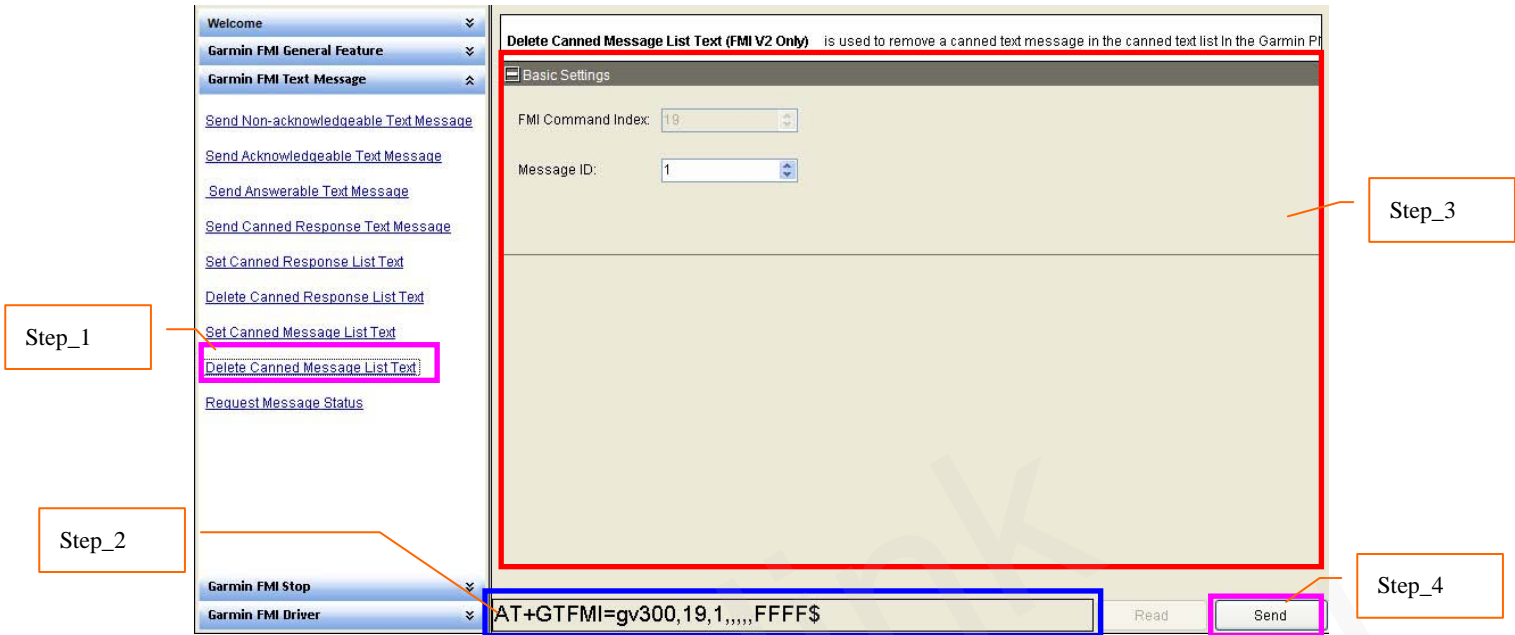
**Step\_1:** Select “Set Canned Message List Text”, after that the parameters of GTFMI show in Command Operation Space.

**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



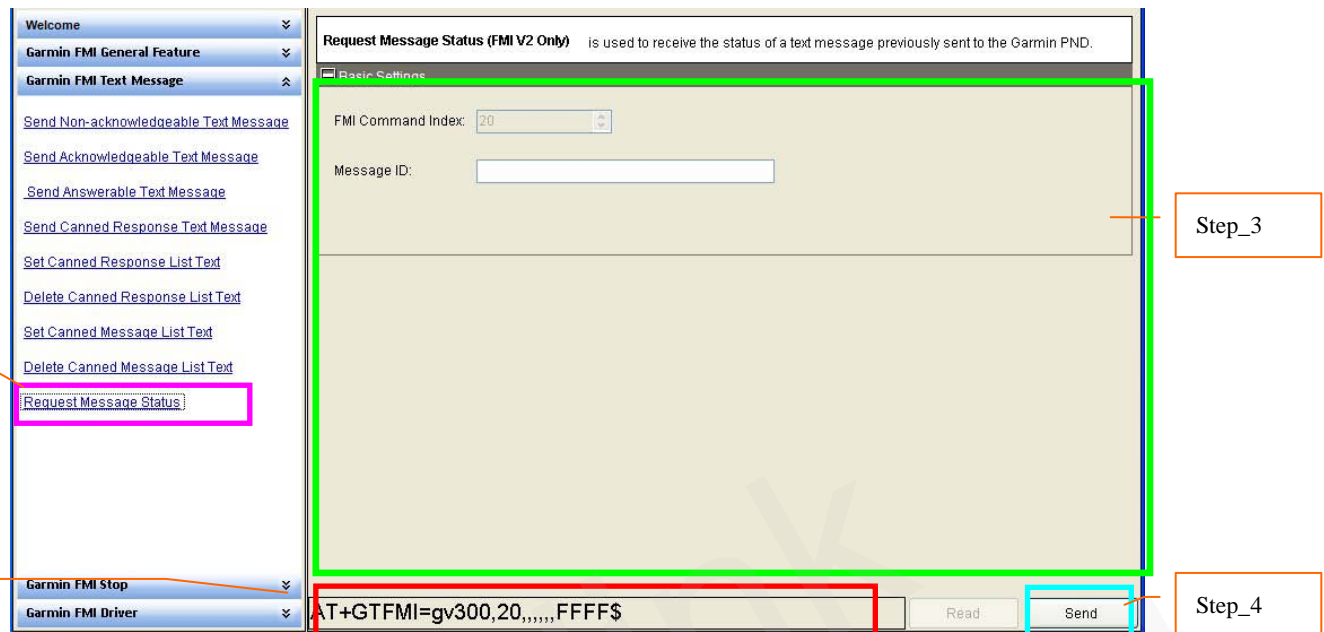
**Step\_1:** Select “Delete Canned Message List Text”, after that the parameters of GTFMI show in Command Operation Space.

**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 area has a 'Basic Settings' section with 'FMI Command Index' set to 20 and an empty 'Message ID' field. The command input field at the bottom contains 'AT+GTFMI=gv300,20,,,,,FFFF\$' and a 'Send' button.

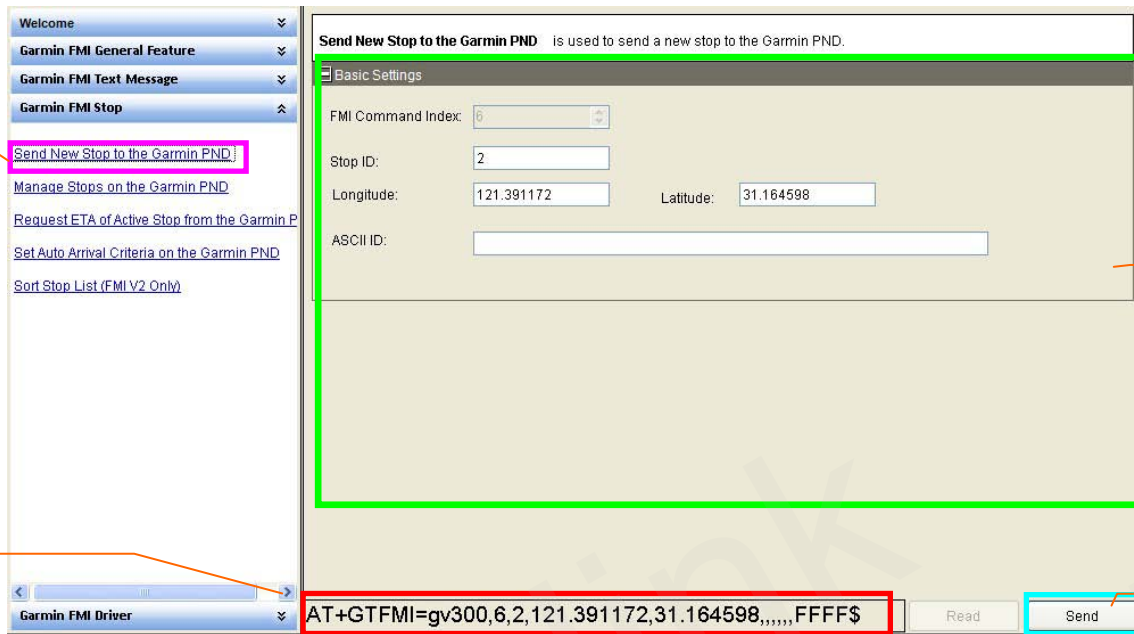
**Step\_1:** Select “Request Message Status”, after that the parameters of GTFMI show in Command Operation Space.

**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



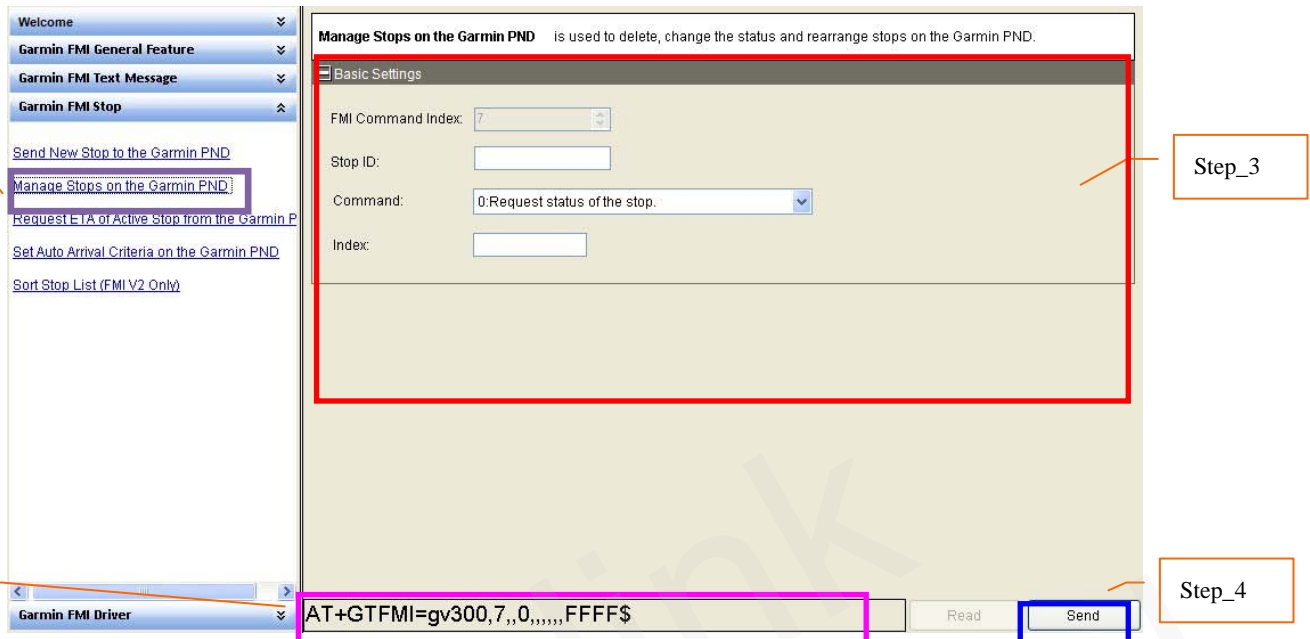
**Step\_1:** Select “*Send New Stop to the Garmin PND*”, after that the parameters of GTFMI show in Command Operation Space.

**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' selected. 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 command operation space displays the command: `AT+GTFMI=gv300,7,,0,,,,,FFFF$`. The 'Send' button is highlighted.

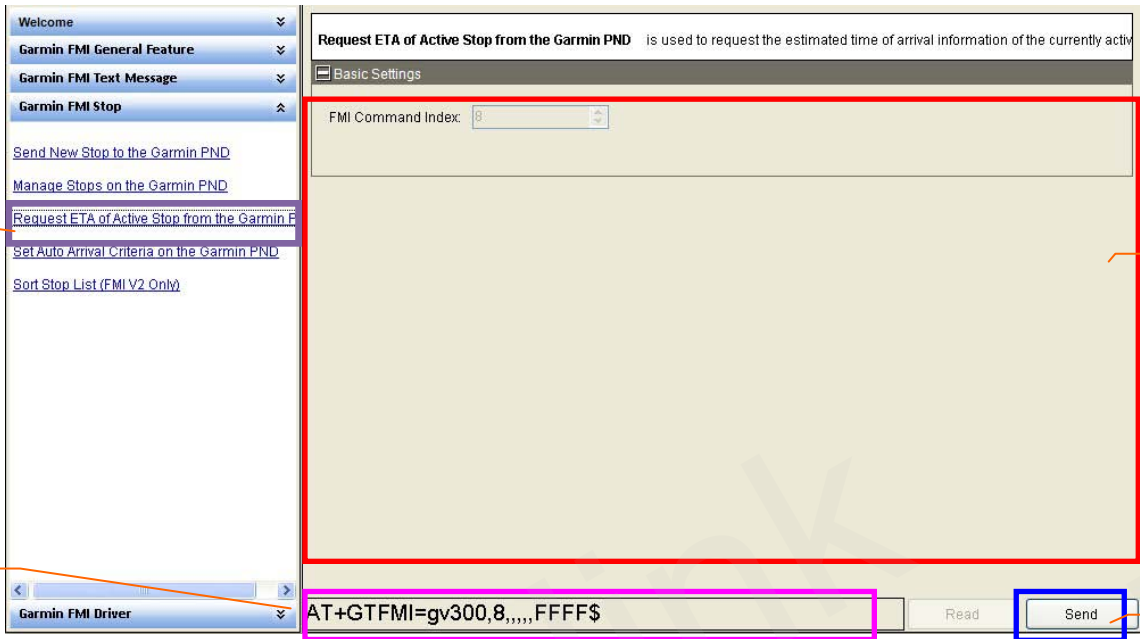
**Step\_1:** Select “Manage Stops on the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

**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 'Request ETA of Active Stop from the Garmin PND' configuration page. The left sidebar contains a menu with the following items: Welcome, Garmin FMI General Feature, Garmin FMI Text Message, Garmin FMI Stop, Send New Stop to the Garmin PND, Manage Stops on the Garmin PND, Request ETA of Active Stop from the Garmin PND (highlighted), Set Auto Arrival Criteria on the Garmin PND, and Sort Stop List (FMI V2 Only). The main content area has a 'Basic Settings' tab and an 'FMI Command Index' dropdown set to '8'. The bottom command input area shows the command 'AT+GTFMI=gv300,8,,,,,FFFF\$' and a 'Send' button.

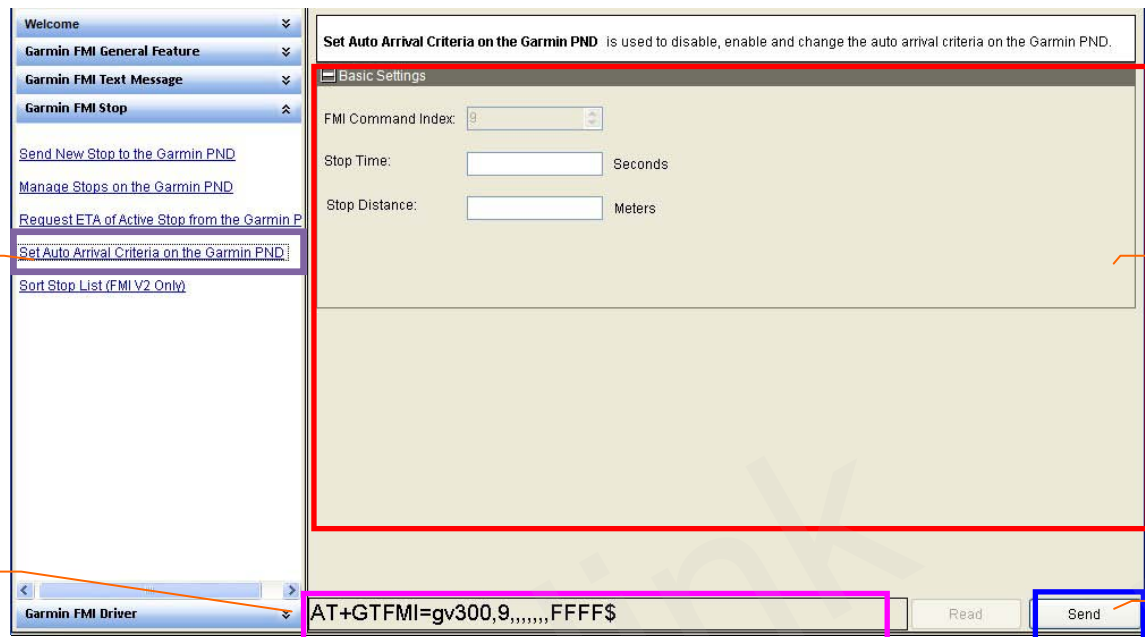
**Step\_1:** Select “Request ETA of Active Stop from the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

**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 is a sidebar menu with options like 'Welcome', 'Garmin FMI General Feature', 'Garmin FMI Text Message', and 'Garmin FMI Stop'. The 'Set Auto Arrival Criteria on the Garmin PND' option is selected. The main area displays 'Basic Settings' for 'Set Auto Arrival Criteria on the Garmin PND'. It includes fields for '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.

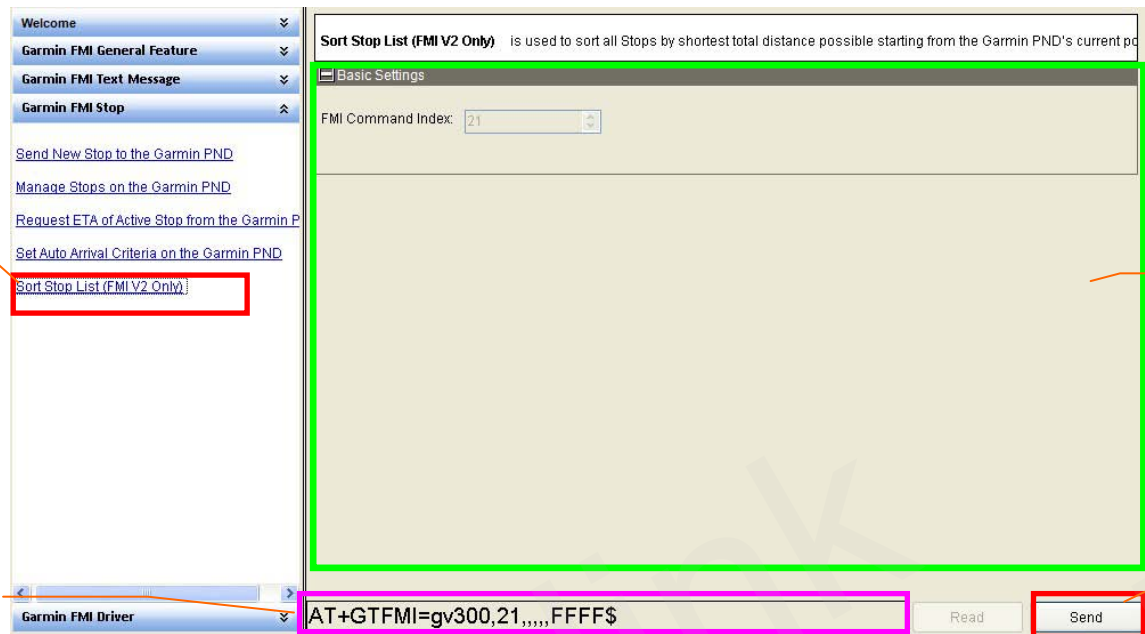
**Step\_1:** Select “Set Auto Arrival Criteria on the Garmin PND”, after that the parameters of GTFMI show in Command Operation Space.

**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 'GARMIN-FMI Manage Tool' interface. On the left, a sidebar menu has 'Sort Stop List (FMI V2 Only)' highlighted with a red box and labeled 'Step\_1'. The main window title is 'Sort Stop List (FMI V2 Only)'. Below the title, there is a 'Basic Settings' section with an 'FMI Command Index' dropdown set to '21'. At the bottom, a text input field contains the command 'AT+GTFMI=gv300,21,,,,,FFFF\$' and is labeled 'Step\_2'. To the right of this field are 'Read' and 'Send' buttons, with the 'Send' button labeled 'Step\_4'. A large green box highlights the main configuration area, labeled 'Step\_3'.

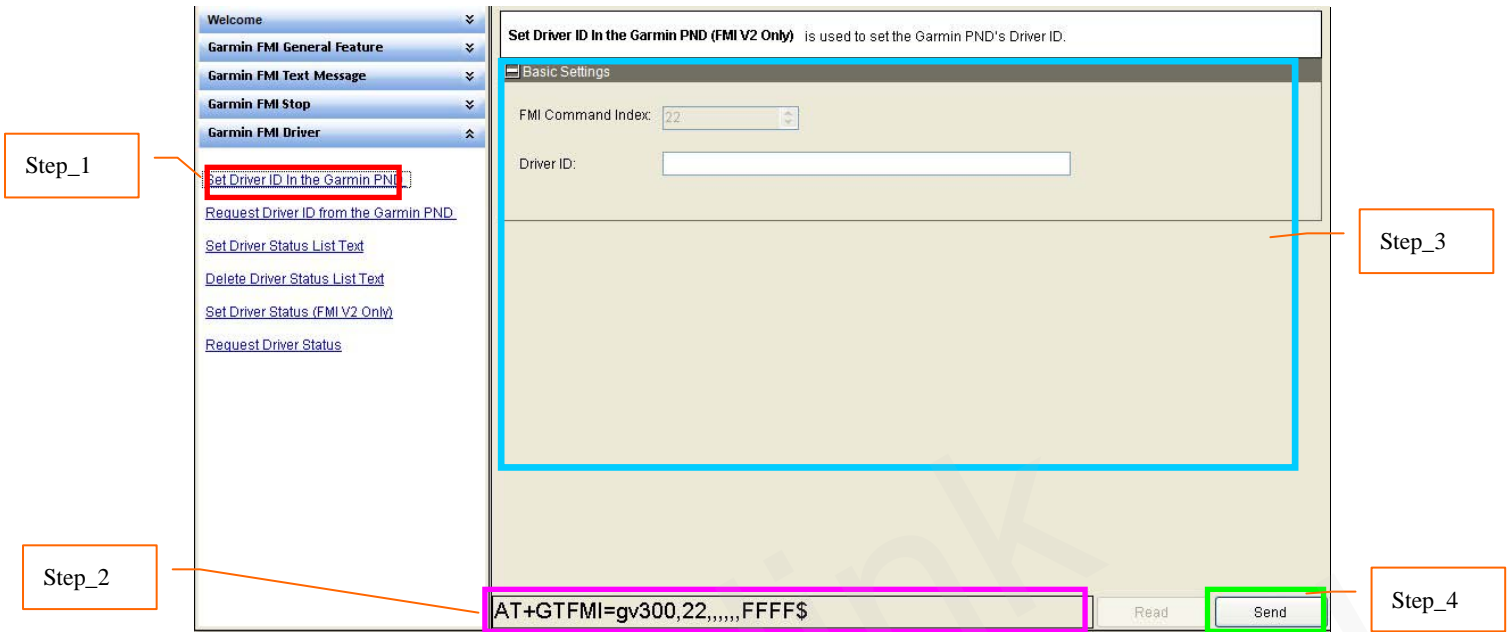
**Step\_1:** Select “Sort Stop List(FMI V2 Only)”, after that the parameters of GTFMI show in Command Operation Space.

**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



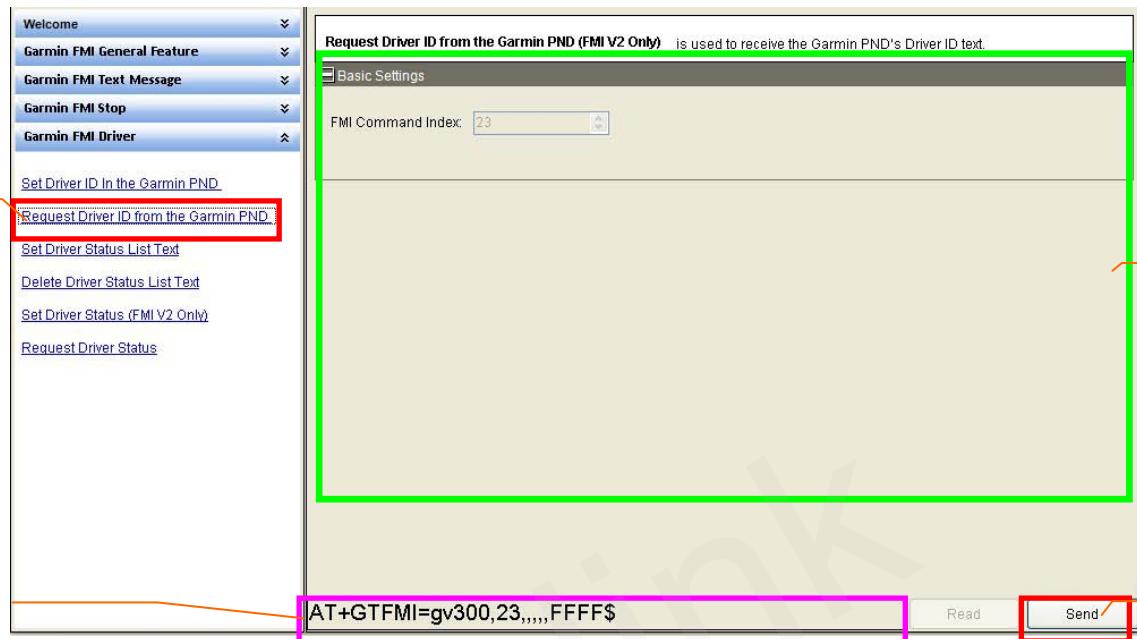
**Step\_1:** Select “*Set Driver ID In the Garmin PND*”, after that the parameters of GTFMI show in Command Operation Space.

**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 'GARMIN-FMI Manage Tool' interface. On the left, a sidebar menu lists various options, with 'Request Driver ID from the Garmin PND' highlighted. The main area displays the configuration for this feature, including a 'Basic Settings' section with an 'FMI Command Index' dropdown set to '23'. At the bottom, a text input field contains the command 'AT+GTFMI=gv300,23,,,,,FFFF\$' and a 'Send' button is visible.

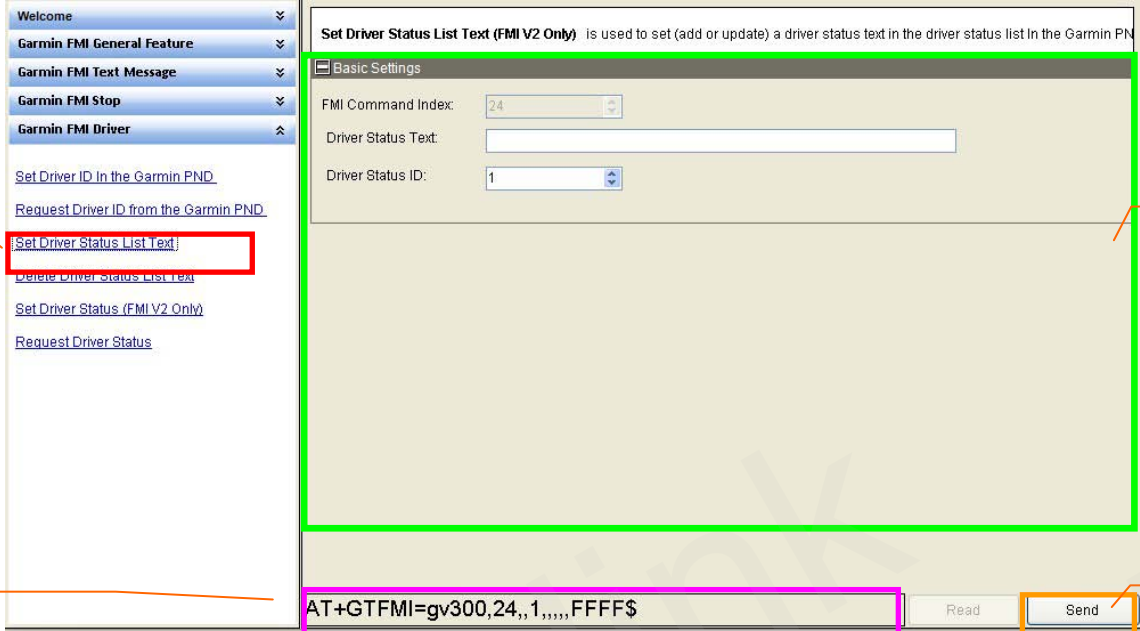
**Step\_1:** Select “*Request Driver ID from the Garmin PND*”, after that the parameters of GTFMI show in Command Operation Space.

**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), and 'Driver Status ID' (1). The bottom command input area contains the text 'AT+GTFMI=gv300,24,,1,,,,FFFF\$' and 'Send' and 'Read' buttons.

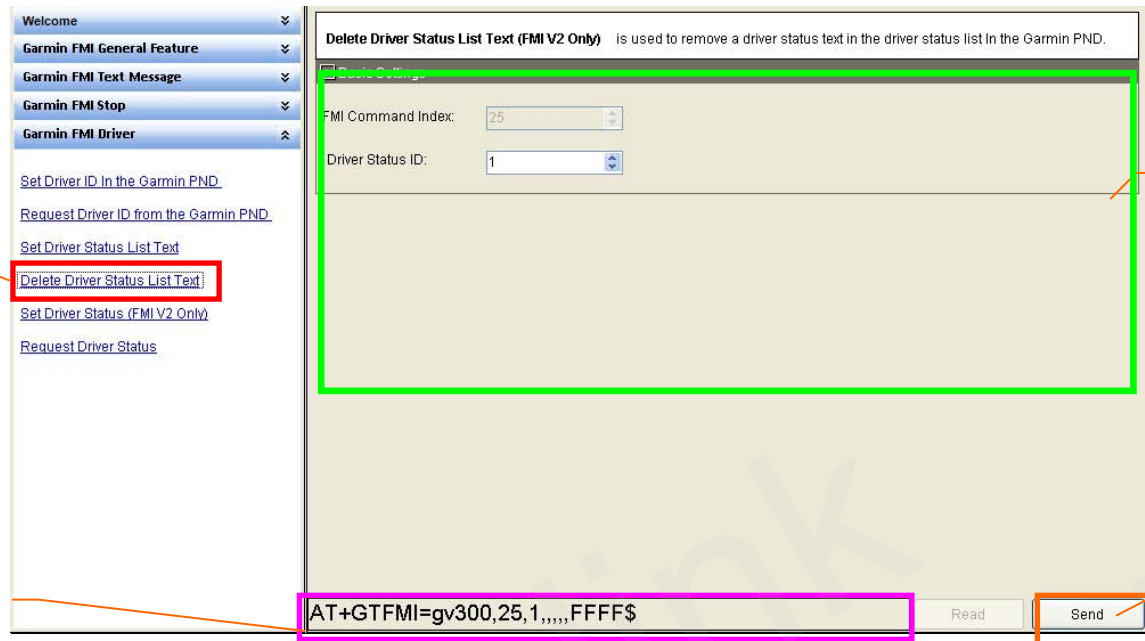
**Step\_1:** Select “*Set Driver Status List Text*”, after that the parameters of GTFMI show in Command Operation Space.

**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



The screenshot shows the 'Delete Driver Status List Text (FMI V2 Only)' configuration window. The left sidebar contains a menu with 'Delete Driver Status List Text' highlighted. The main window has 'FMI Command Index' set to 25 and 'Driver Status ID' set to 1. The command generation area at the bottom displays 'AT+GTFMI=gv300,25,1,,,,,FFFF\$'. The 'Send' button is located at the bottom right of the command area.

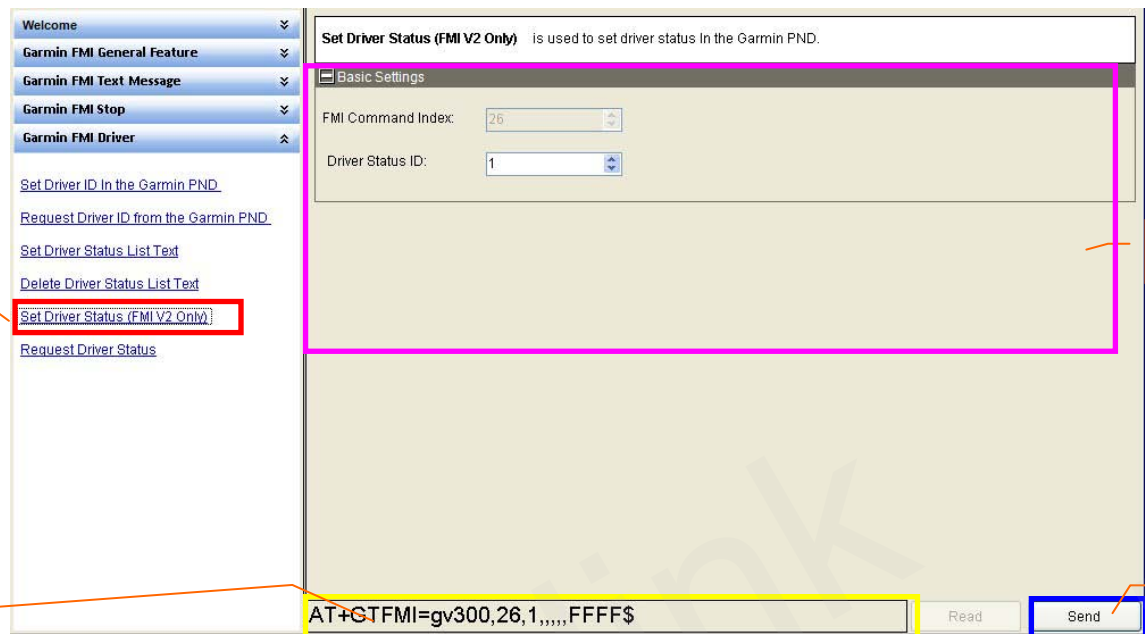
**Step\_1:** Select “Delete Driver Status List Text”, after that the parameters of GTFMI show in Command Operation Space.

**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 with two input fields: 'FMI Command Index' (value: 26) and 'Driver Status ID' (value: 1). At the bottom, a command field contains the text 'AT+GTFMI=gv300,26,1,,,,,FFFF\$' and a 'Send' button.

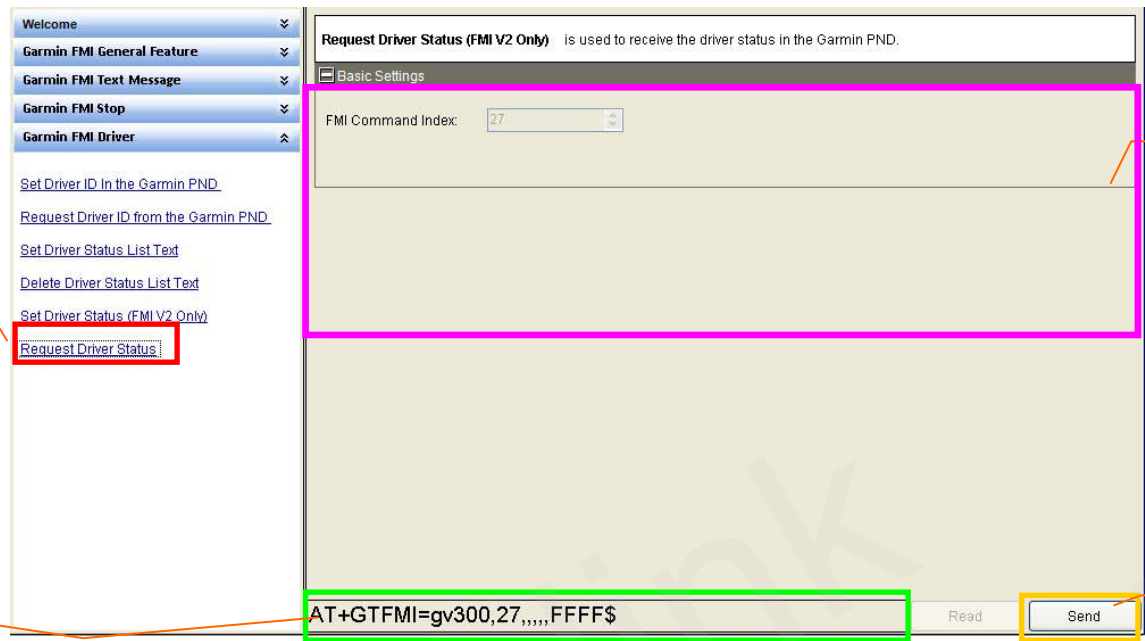
**Step\_1:** Select “Set Driver Status(FMI V2 Only)”, after that the parameters of GTFMI show in Command Operation Space.

**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 area has a title bar, a 'Basic Settings' section with 'FMI Command Index' set to '27', and a large text input field containing the command 'AT+GTFMI=gv300,27,,,,,FFFF\$'. A 'Send' button is located at the bottom right.

**Step\_1:** Select “*Request Driver Status*”, after that the parameters of GTFMI show in Command Operation Space.

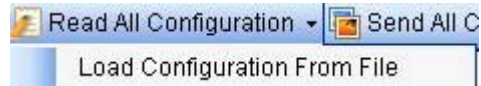
**Step\_2:** The command message which shall be sent to GARMIN-FMI will be generated based on input and displayed here. Please note this command message can also be sent to GARMIN-FMI through SMS or GPRS.

**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.

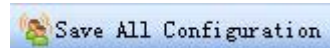
### 3.2. Read/Save All Configuration

Step\_1: It is recommended to read all configurations from device before save the configuration. Select “*Read All Configuration*”→”*Read From Device*”.

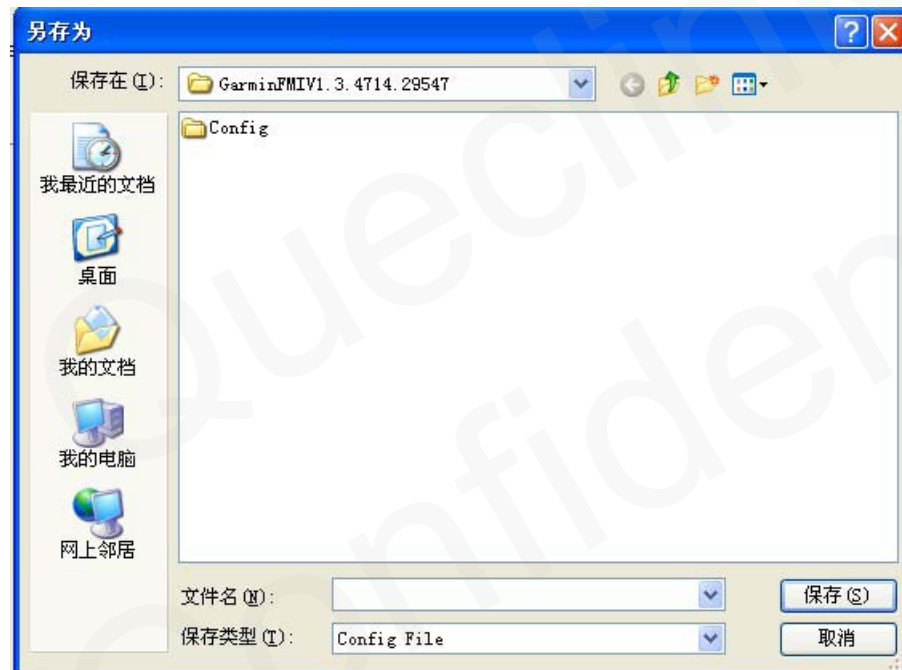


NOTE: Command GTDAT will not be read when ”*Read From Device*”.

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.

