JOA GPS Map Service
In your PC

User Manual

Revision 3.0

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1. Getting Started

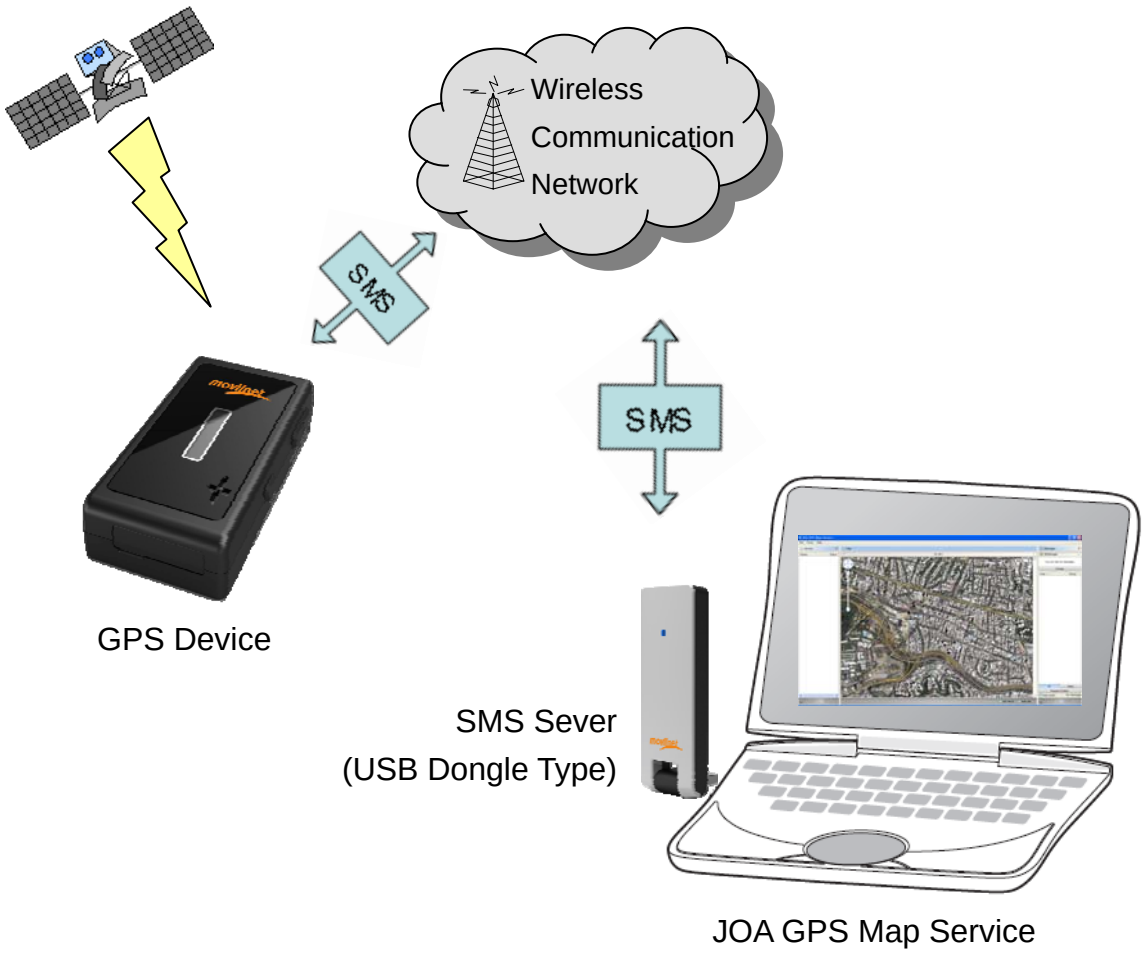
1-1 Introduction

JOA GPS Map Service is real-time position tracking service using Google Map.

The current position data collected by *GPS Device* is transmitted to *SMS Server (USB Dongle Type)* by every period cycle. And the transmitted position data can be displayed on Google Map using *JOA GPS Map Service* in your PC.
To do this, you have to install the provided installation CD in your PC.

! Installation S/W can be downloaded from our website at no charge.

1-2. Configuration of JOA GPS System



1-3. Period of position tracking

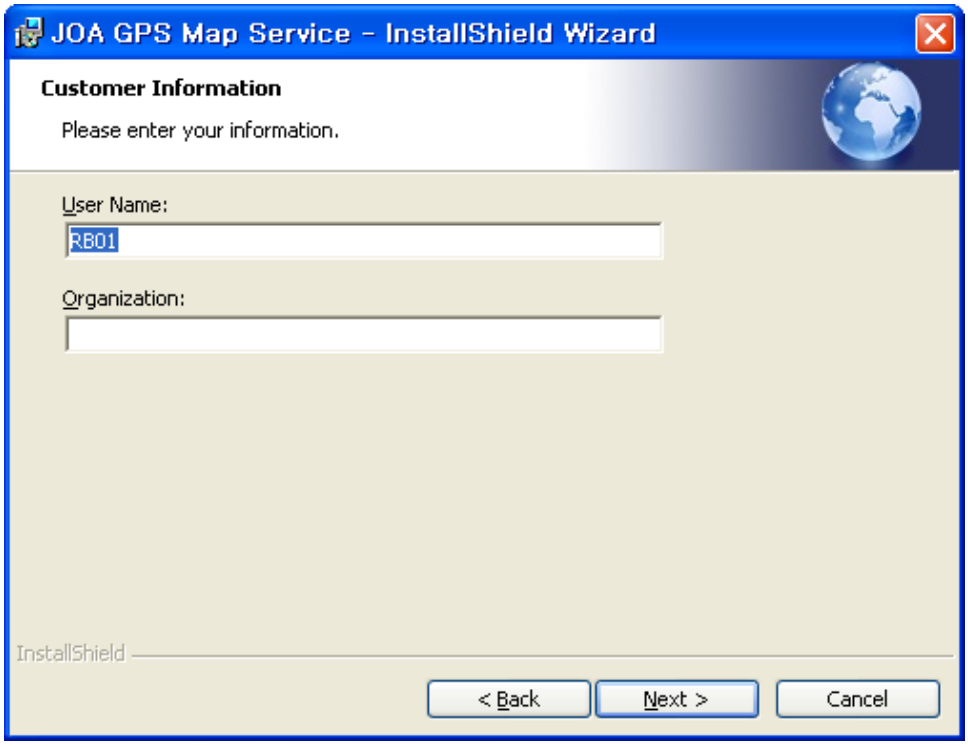
The current position data collected by *GPS Device* is transmitted to *SMS Server* by every period cycle. The period is as follows.
(Please refer to *Menu 5-3* for changing the period.)

- Default period is 10 minutes.
- Emergency period is 5 minutes.
- If user set normal period under 5 minutes, emergency period follow normal period user set. (ex. If normal period is 3 minutes, emergency period is same.)
- If normal period set from 6 to 9 minutes, emergency period change to 5 minutes.

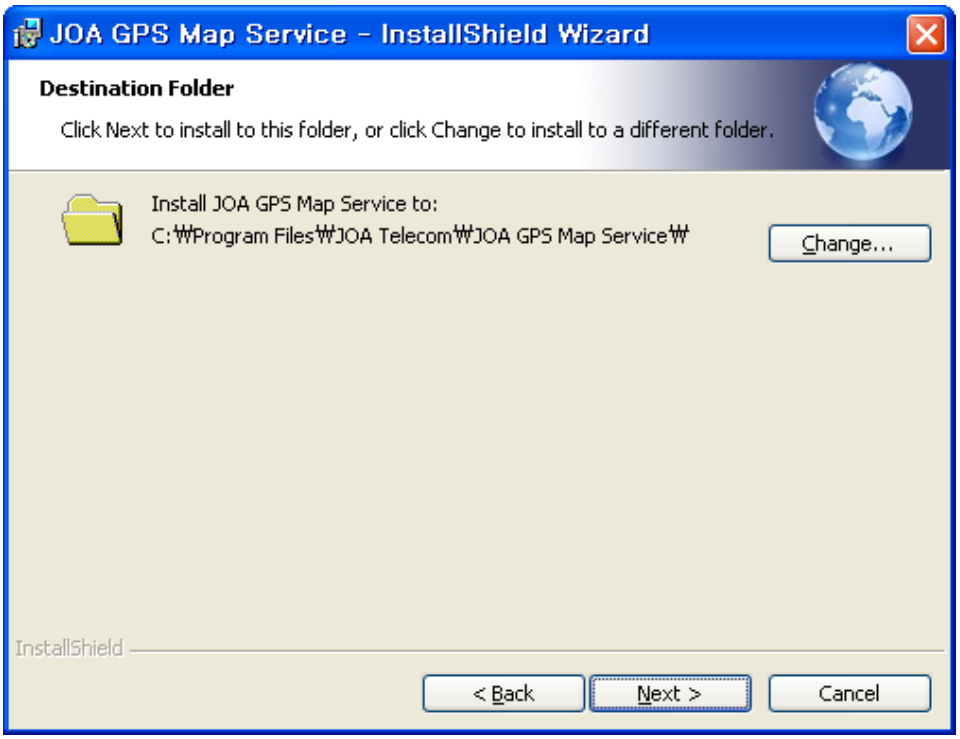
1-4. Installing JOA GPS Map Service

1-4-1. Insert the provided installation CD into the computer's CD drive. The introductory screen appears automatically. Click *Next* to begin installation.

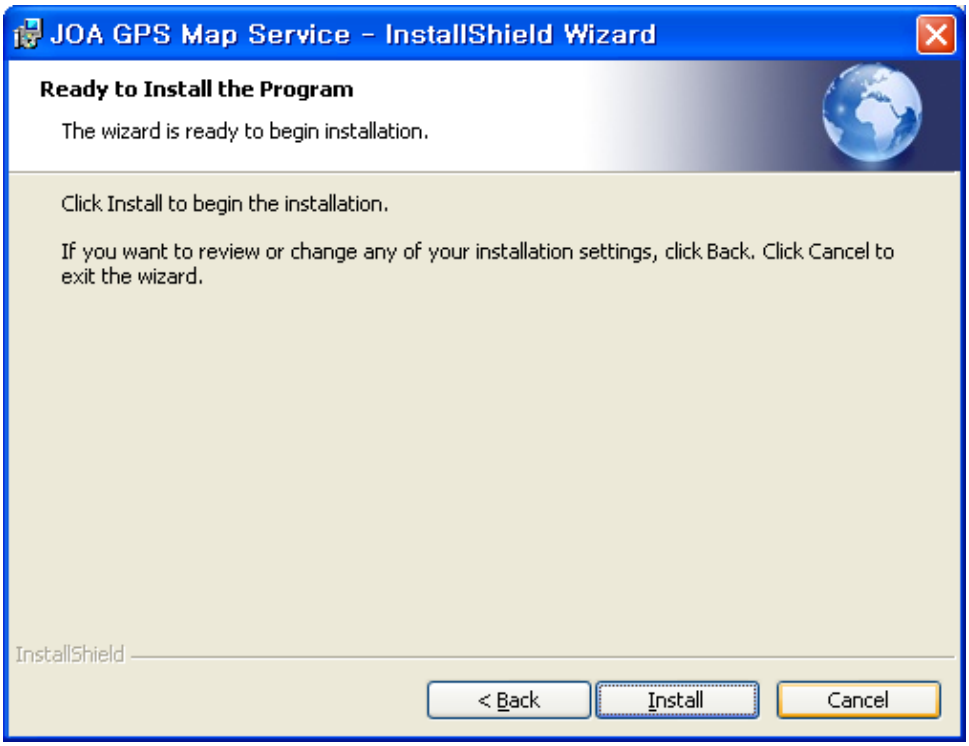
1-4-2. *Customer Information* screen will be open. Enter your information, and then click *Next*.



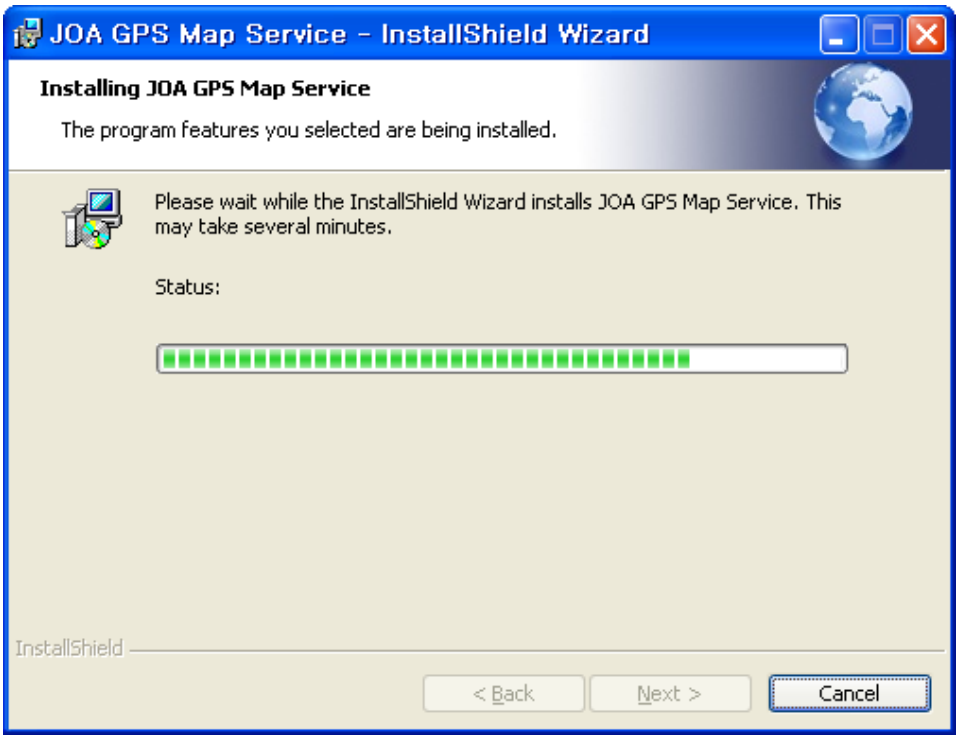
1-4-3. To install the *JOA GPS Map Service* in the default location, click *Next*. *Ready to Install the Program* screen will be open.
If you want to change the location, click *Change*. You can change the location you want.



1-4-4. Click *Install* to continue installation.



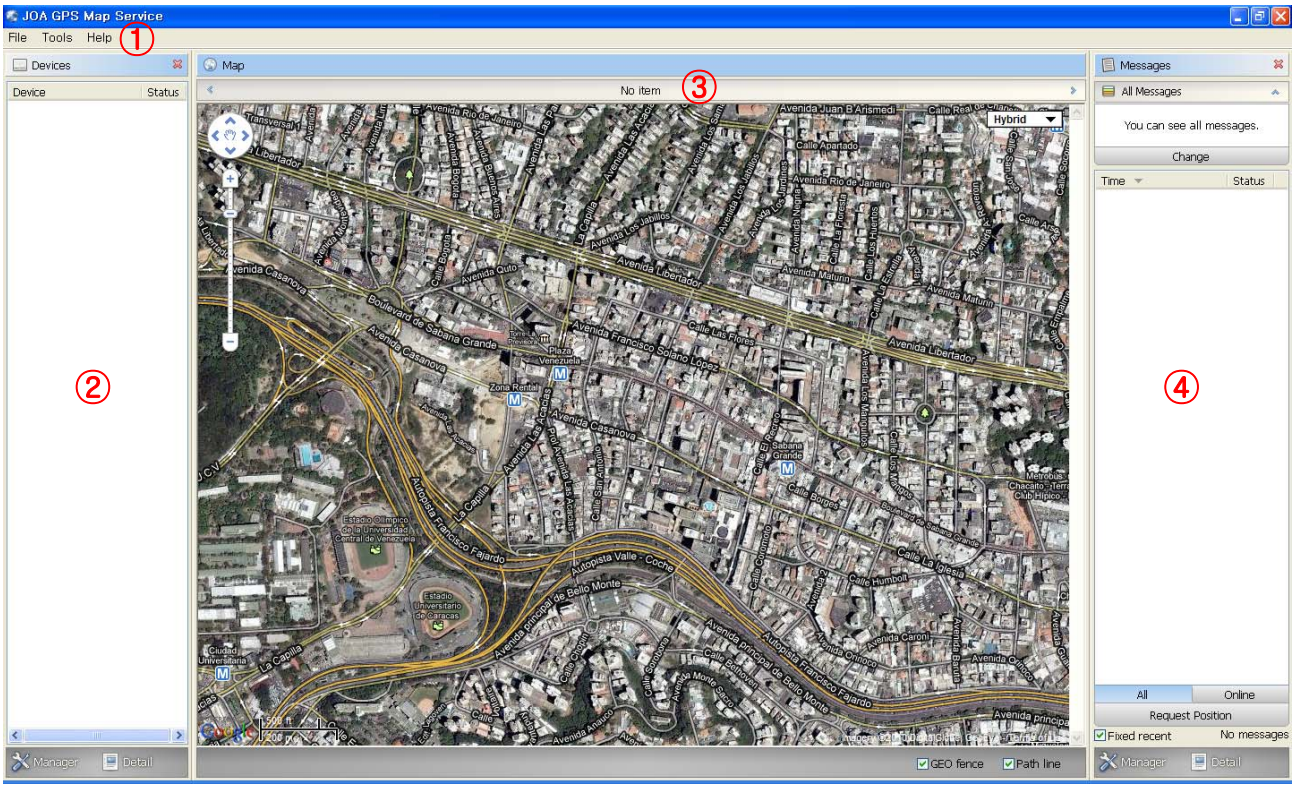
1-4-5. Installation is in progress.



1-4-6. Installation is done. Click *Finish* to exit the wizard.

2. Overview

Make sure the main screen of *JOA GPS Map Service*.



① File > Exit (exit from program)
Tools > Time zone (reset *Time zone*)
Help > About (Program version)

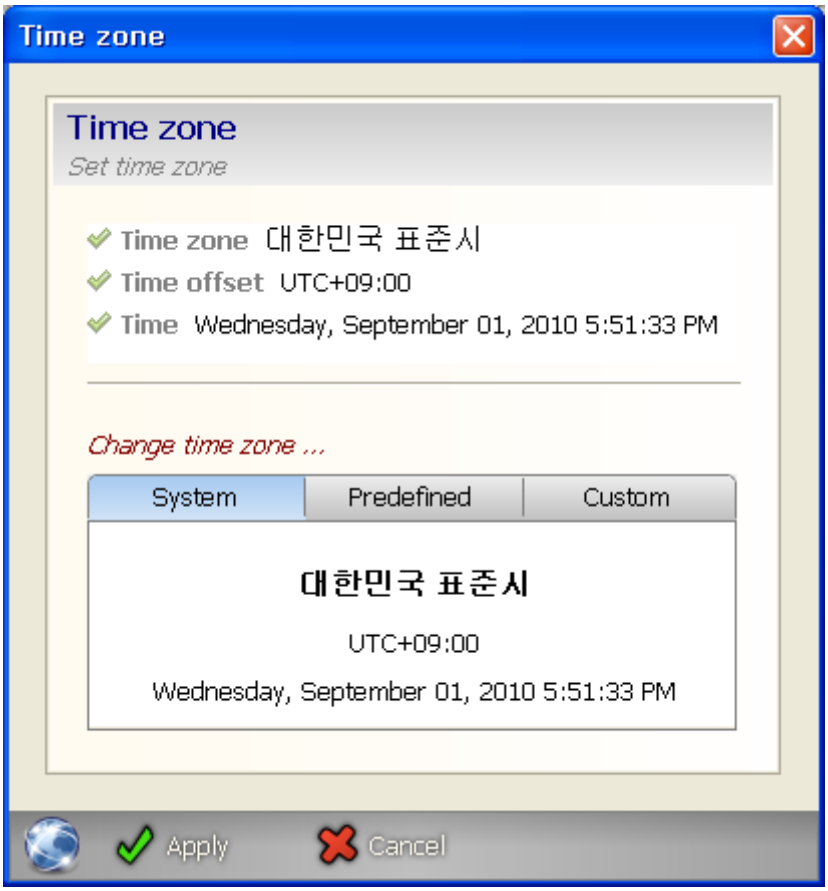
② You can manage the added SMS Servers and GPS Devices.

③ Position data are displayed by dots and icons on Google Map.

④ You can manage the position data messages.

3. Setting Time zone

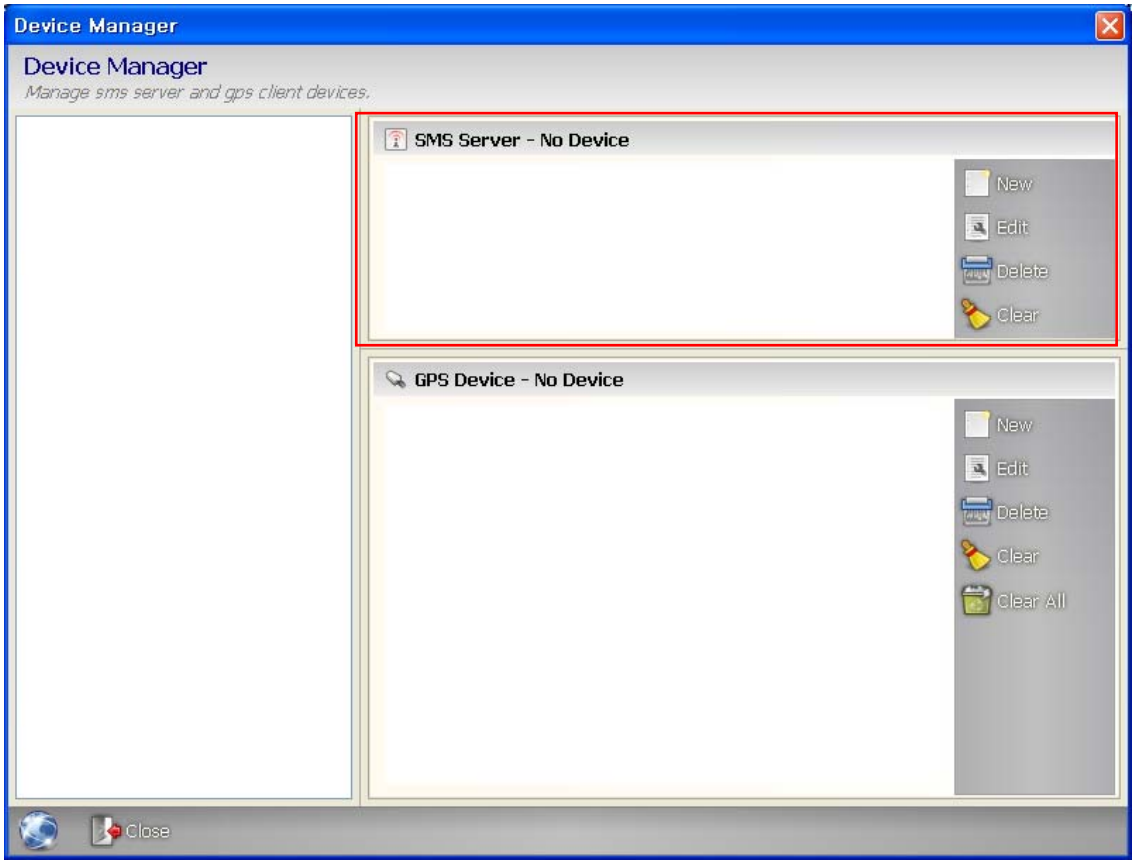
When you run *JOA GPS Map Service*, you have to set *Time zone* first.



If you want to reset, enter *Tools* on the menu. *(Menu > Tools > Time zone)*

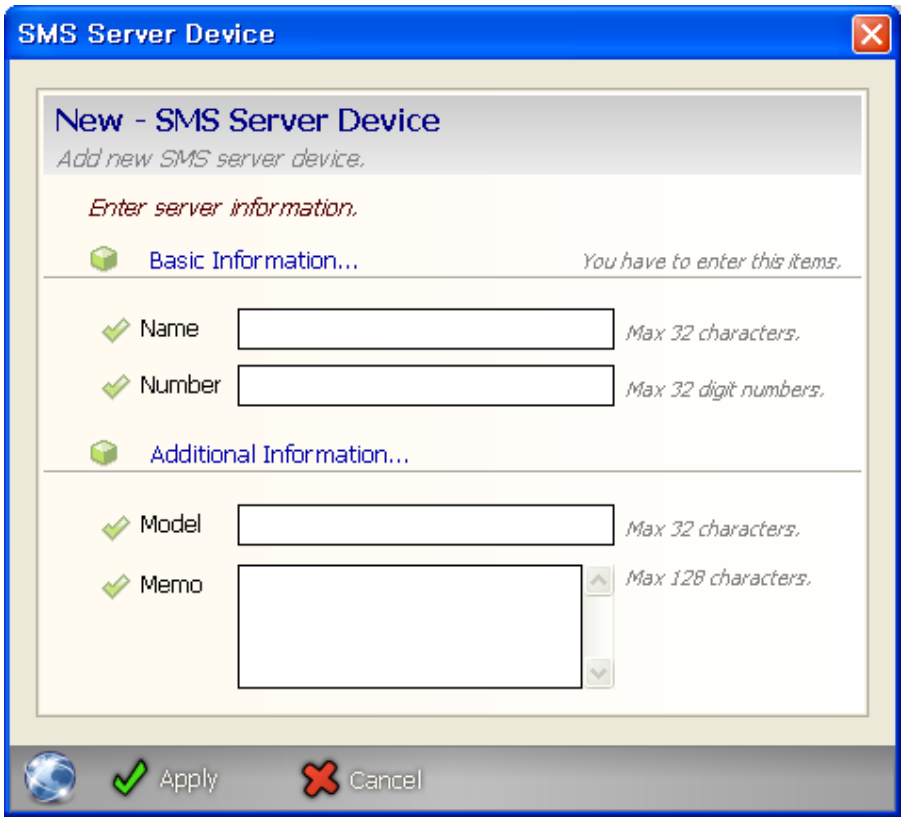
4. Device Manager

4-1. SMS Server

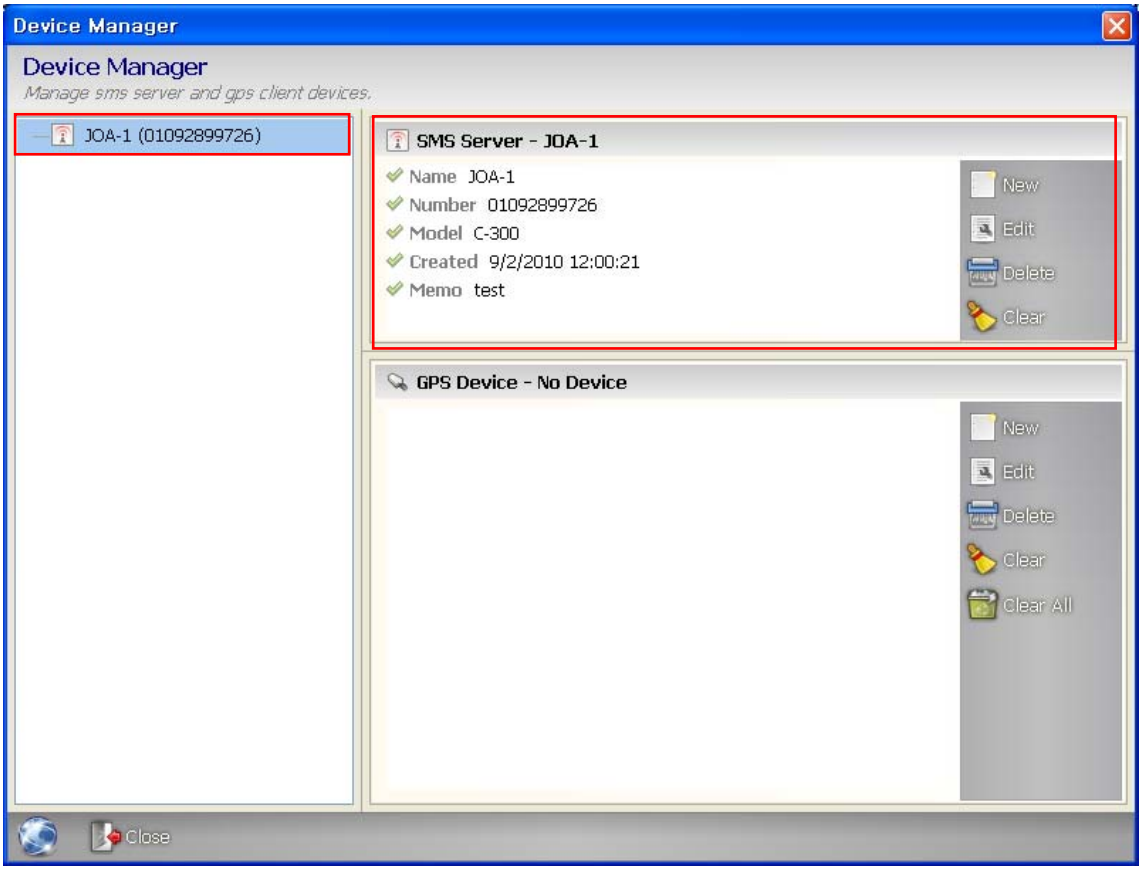


New : Adding new SMS Server
Edit : Editing SMS Server
Delete : Deleting a SMS Server
Clear : Deleting all SMS Servers

4-1-1. Adding new SMS Server
Click *New*, and enter SMS Server information you have.



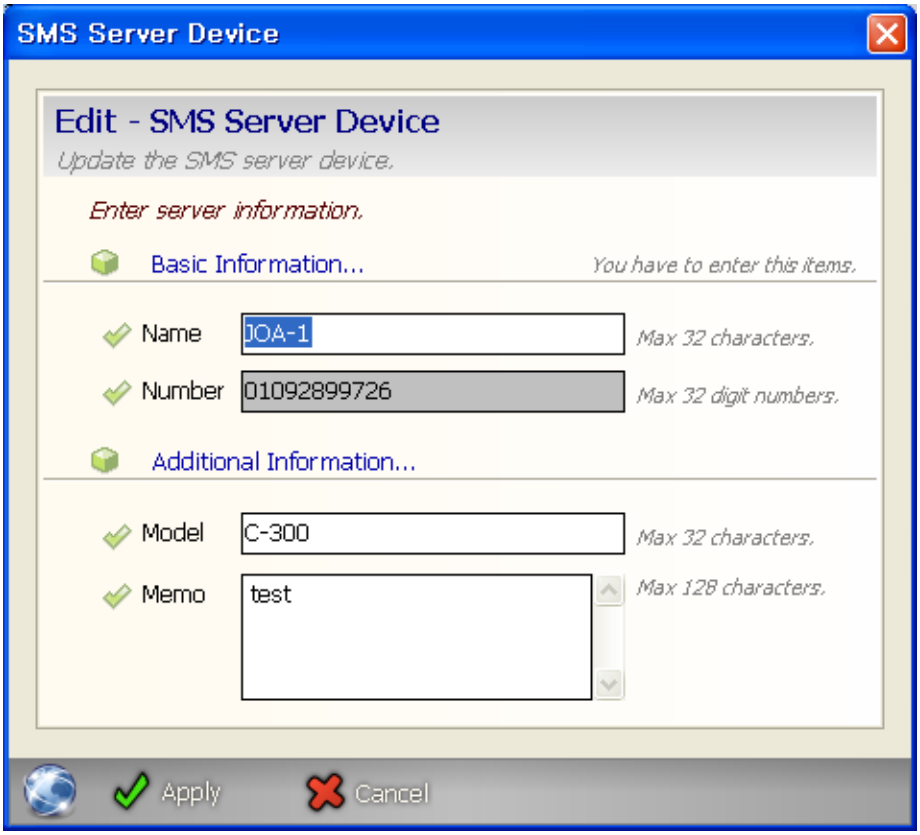
Click *Apply* to complete adding.



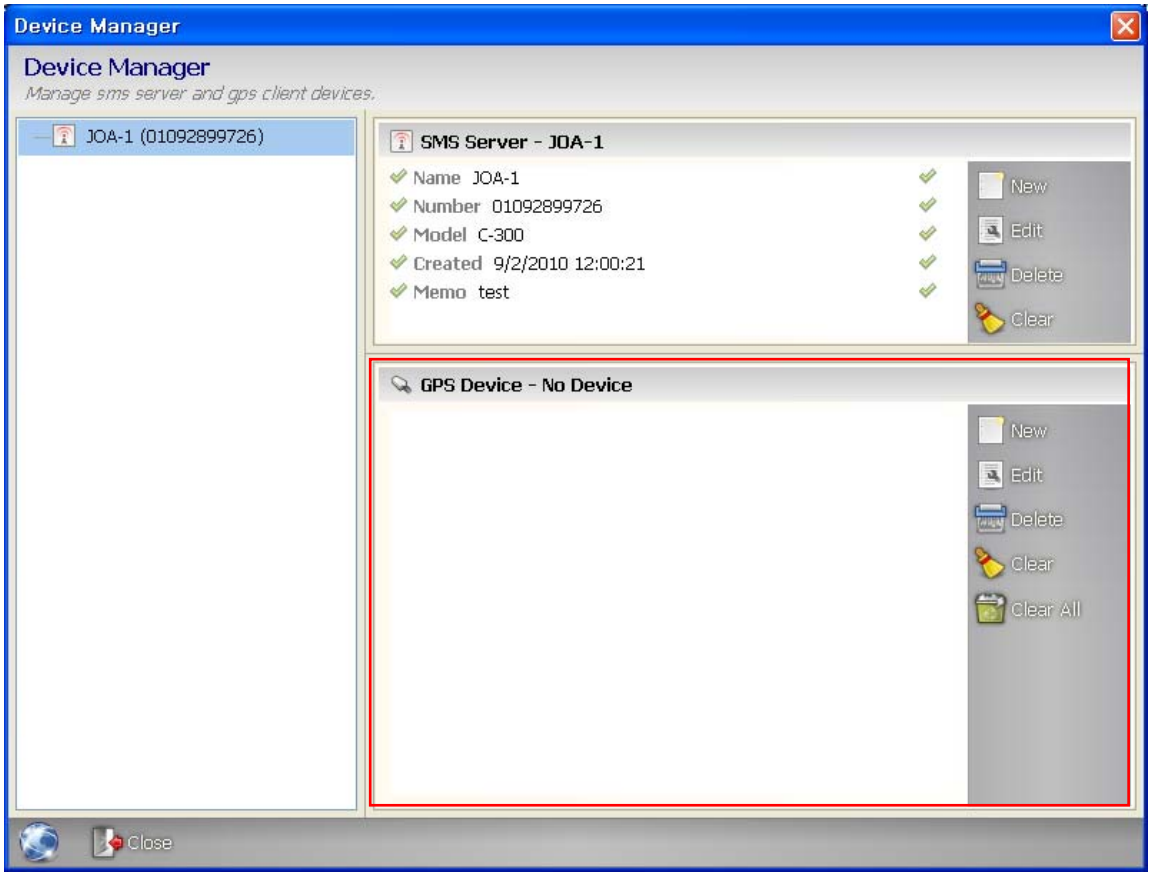
You can add another SMS Server in the same way.

4-1-2. Editing SMS Server

You can edit SMS Server information.

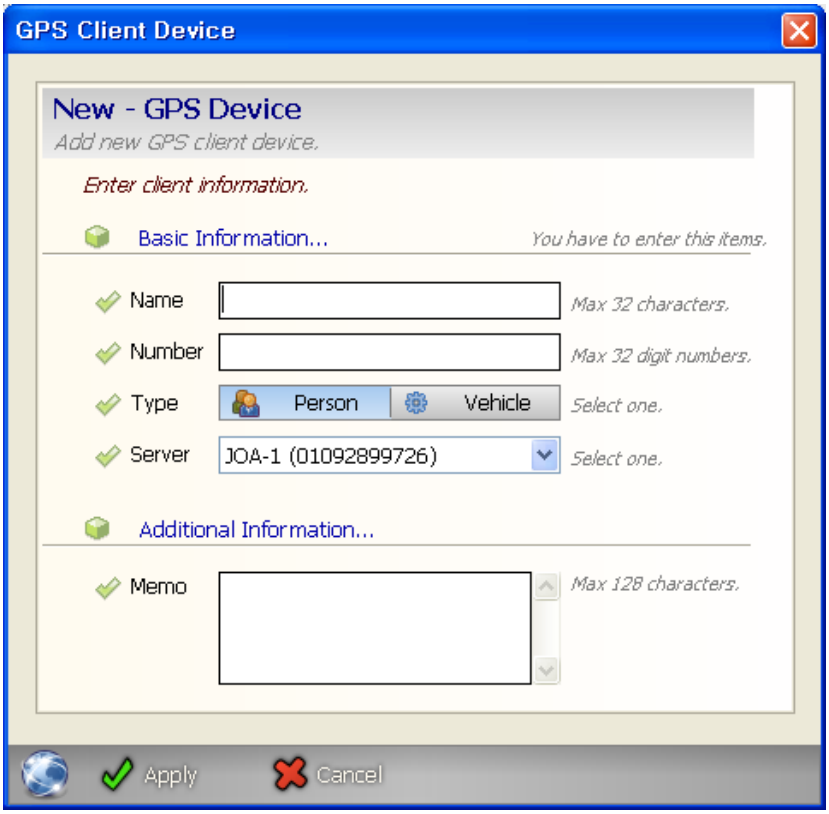


4-2. GPS Device

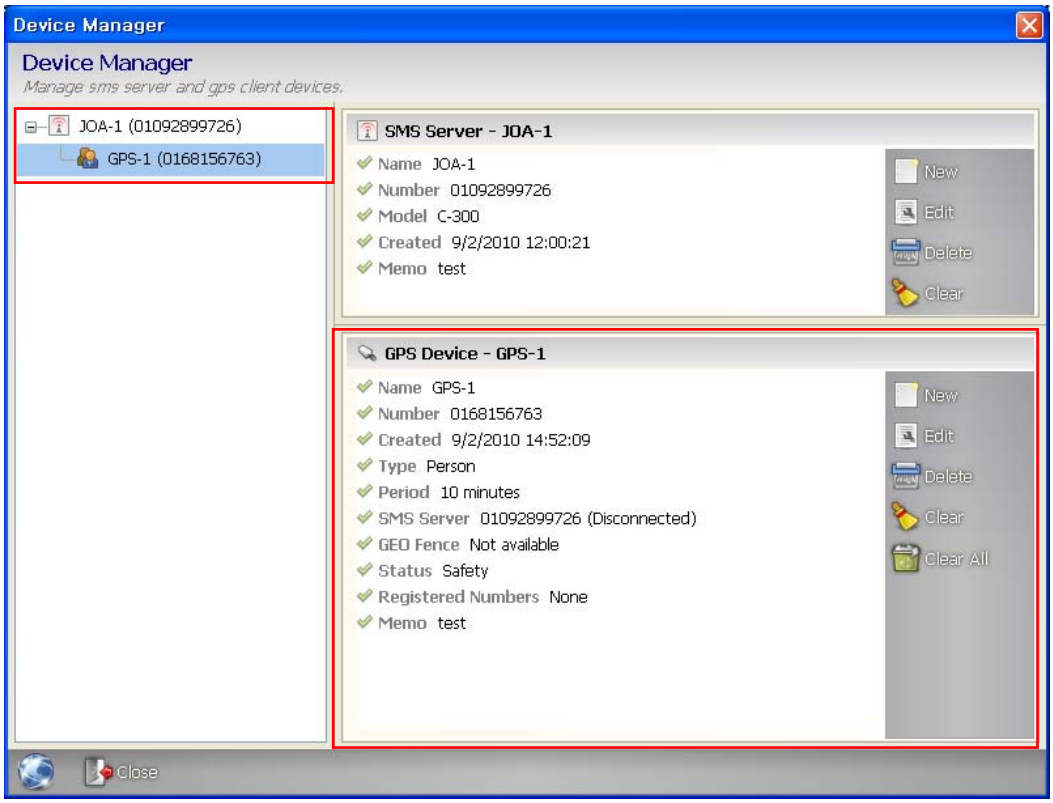


New : Adding new GPS Device
Edit : Editing GPS Device
Delete : Deleting a GPS Device
Clear : Deleting all GPS Devices
Clear All: Deleting all GPS Devices and the SMS Server

4-2-1. Adding new GPS Device
Click *New*, and enter GPS Device information you have.



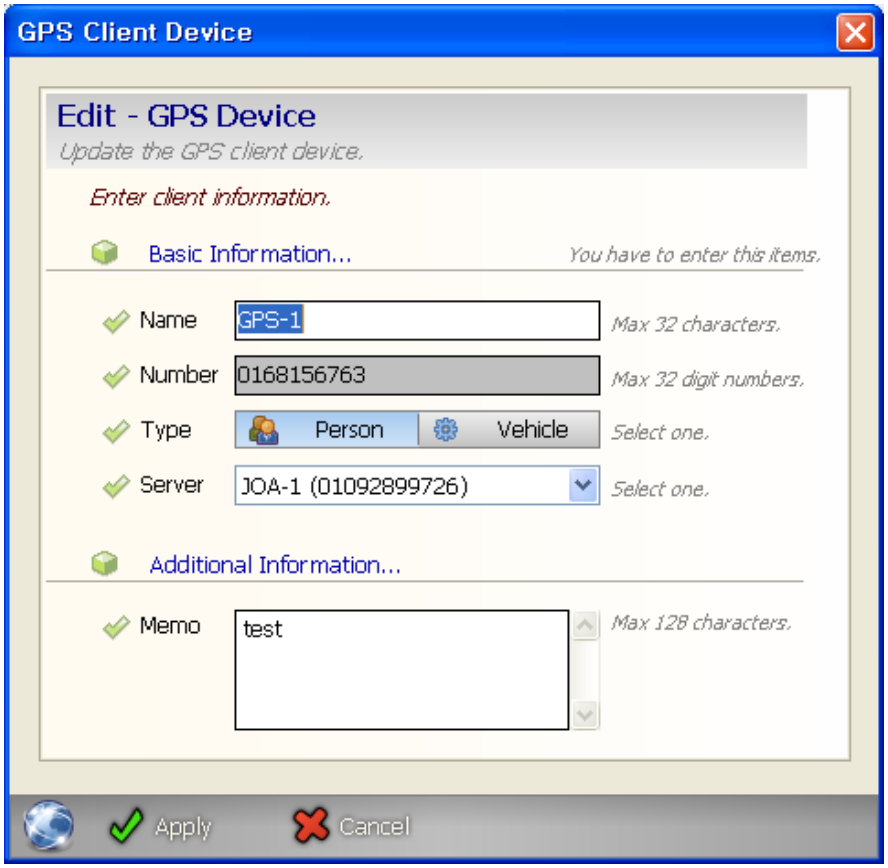
You have to select *Type (Person or Vehicle)* and *Server* you added. Click *Apply* to complete adding.



You can add another GPS Device in the same way.

4-2-2. Editing GPS Device

You can edit GPS Device information.



Click *Apply* to complete editing.

5. Device Detail

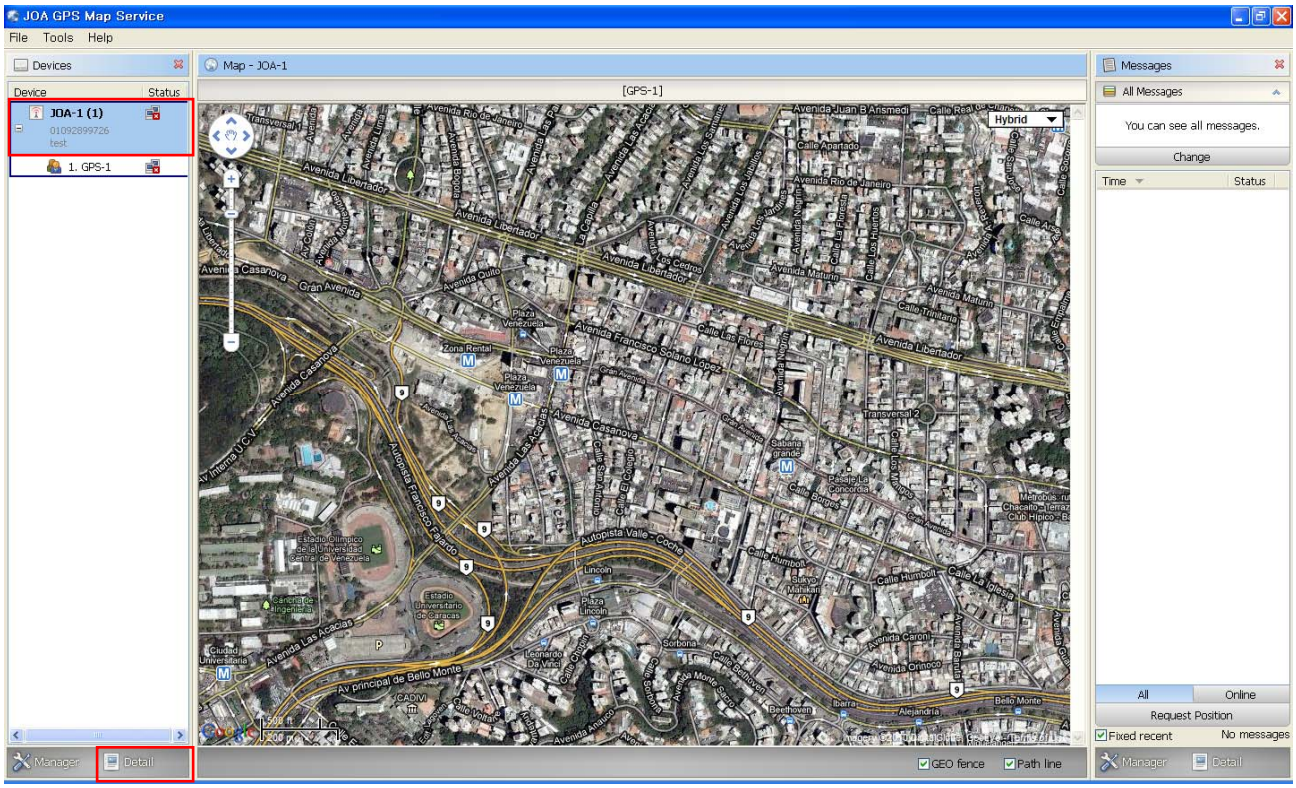
5-1. Connecting SMS Server

You have to connect *SMS Server* to your PC using *JOA SMS Control Agent*.

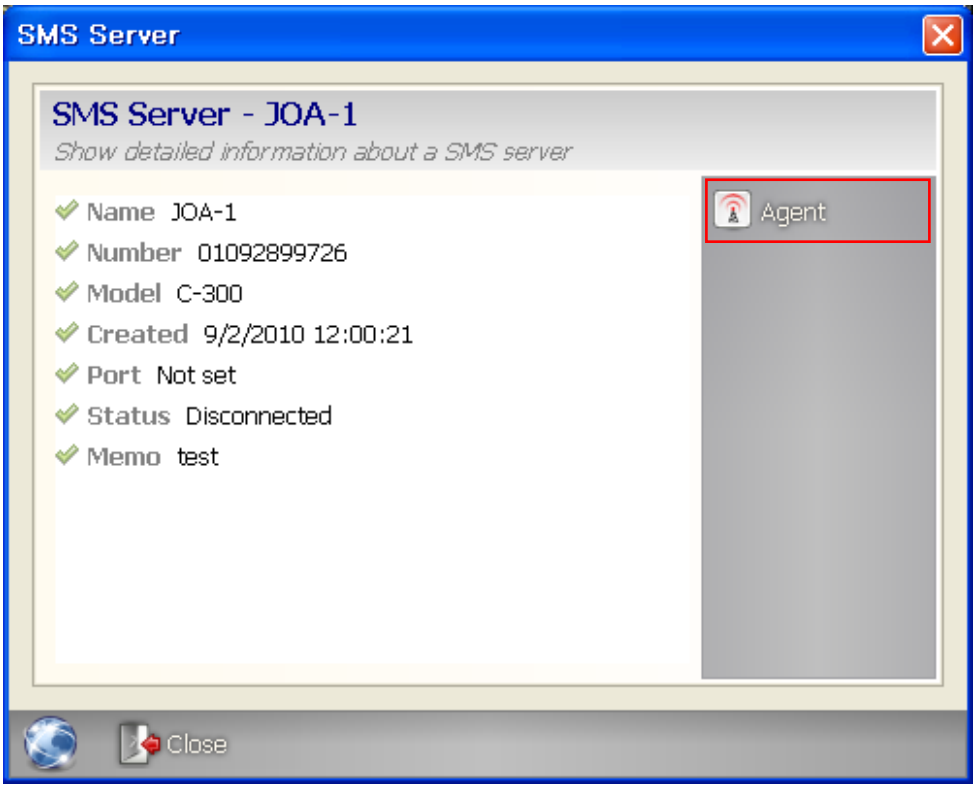
5-1-1. Connecting SMS Server to your PC
Connect SMS Server to USB port on your PC.

! For connecting SMS Server to PC, JOA USB Driver should be installed in your PC. Driver is in the provided installation CD or you can download from our website.

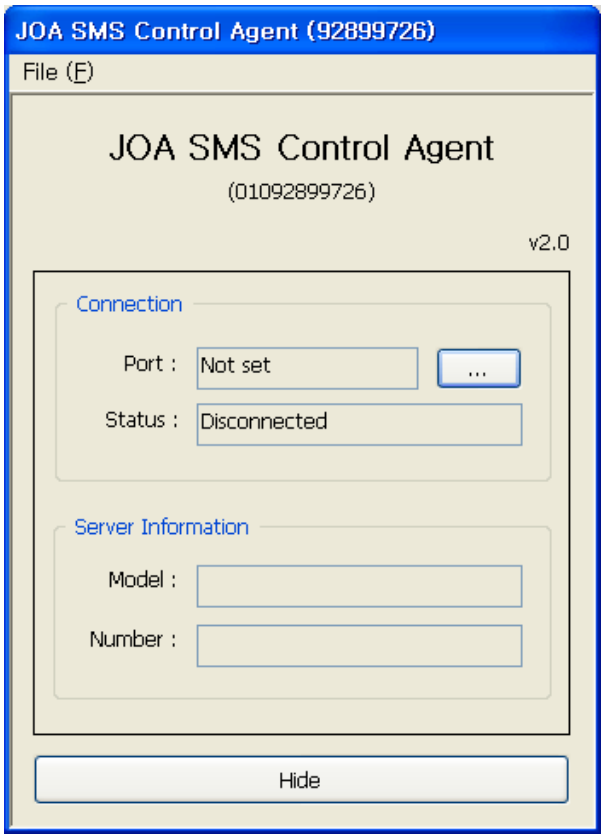
5-1-2. Starting *JOA SMS Control Agent*



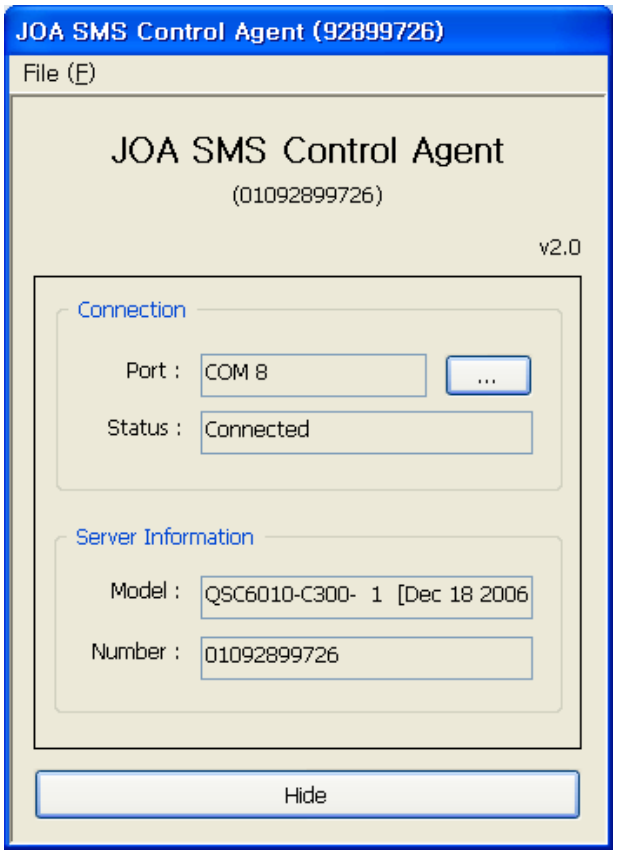
Select SMS Server and click *Detail* or double click icon.



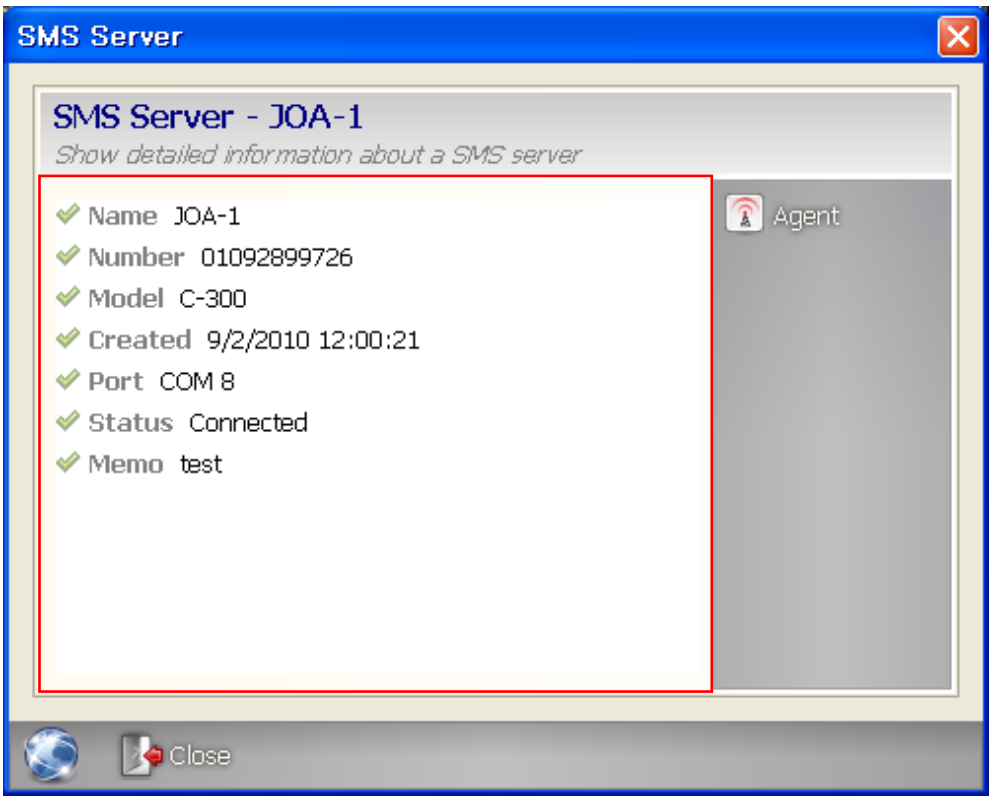
Make sure SMS Server information and enter *Agent*.



If the connection between SMS Server and your PC is correct, you can get SMS Server information.

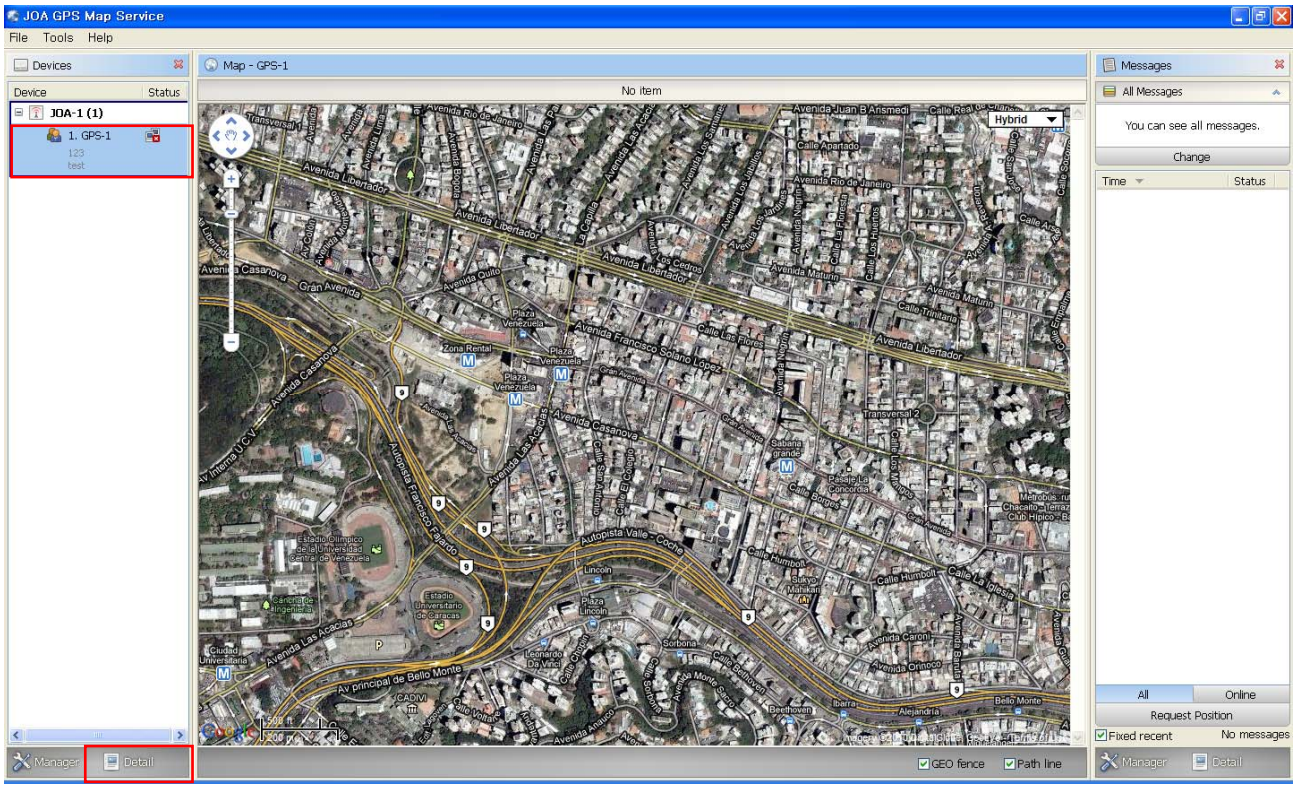


Close the window and make sure SMS Server status.

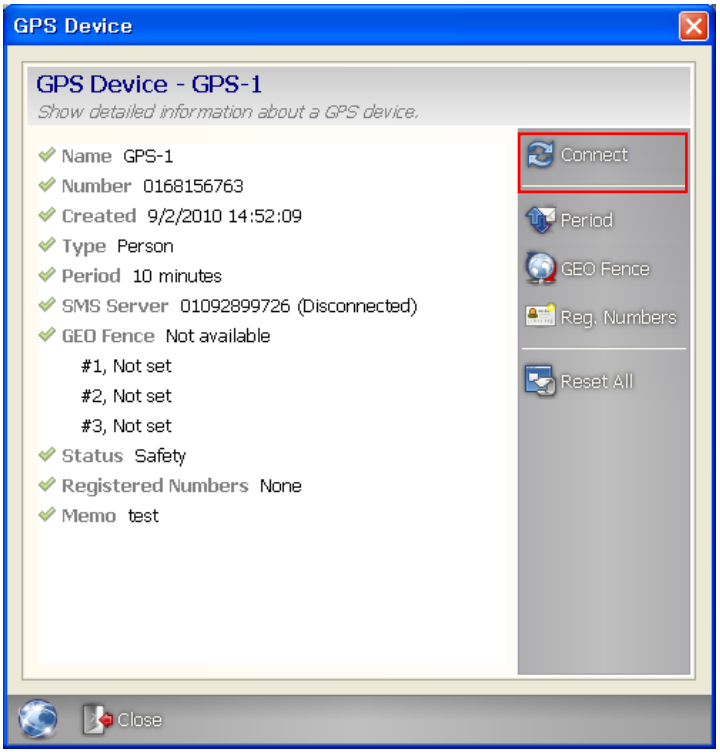


5-2. Connecting GPS Device

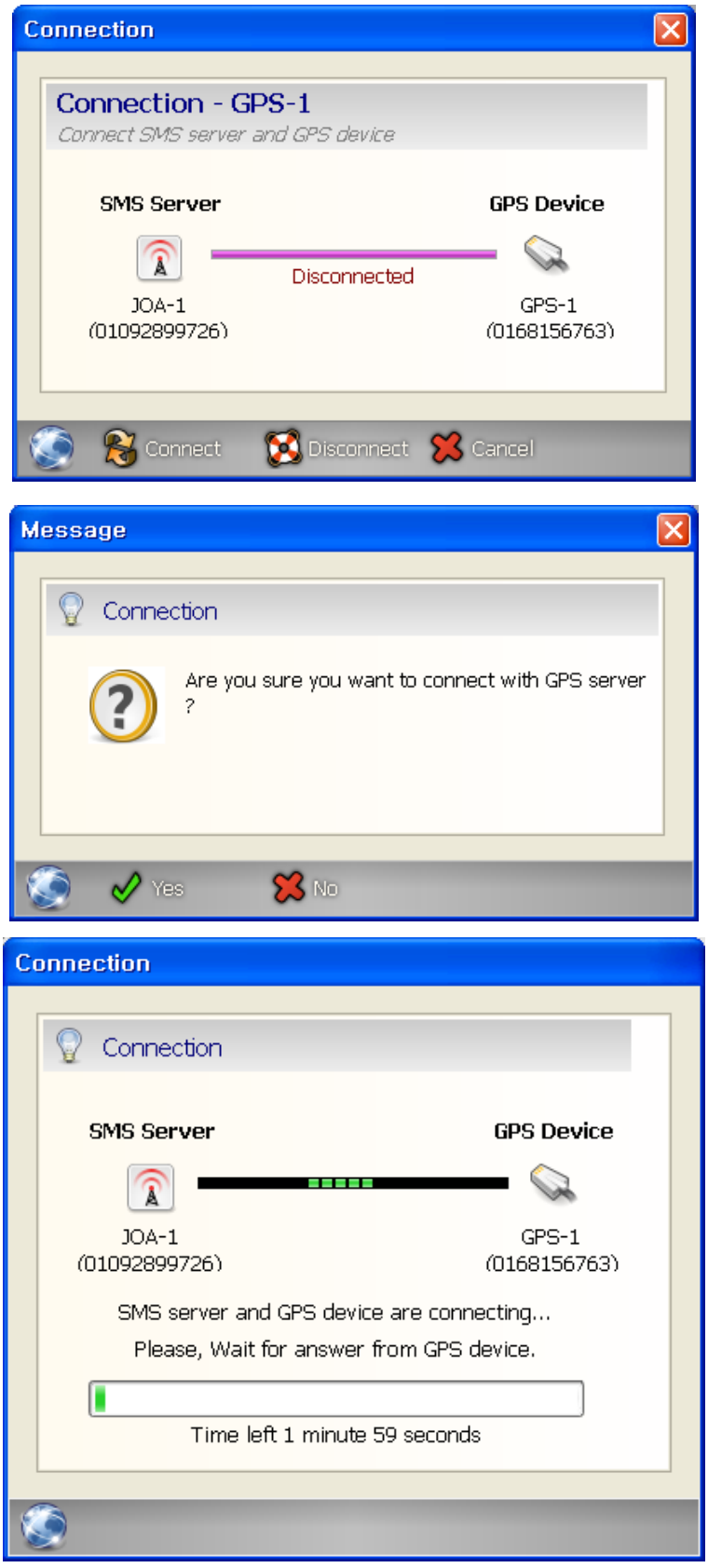
To use *JOA GPS Map Service*, you have to connect GPS Device to SMS Server.



Select GPS Device and click *Detail* or double click icon.



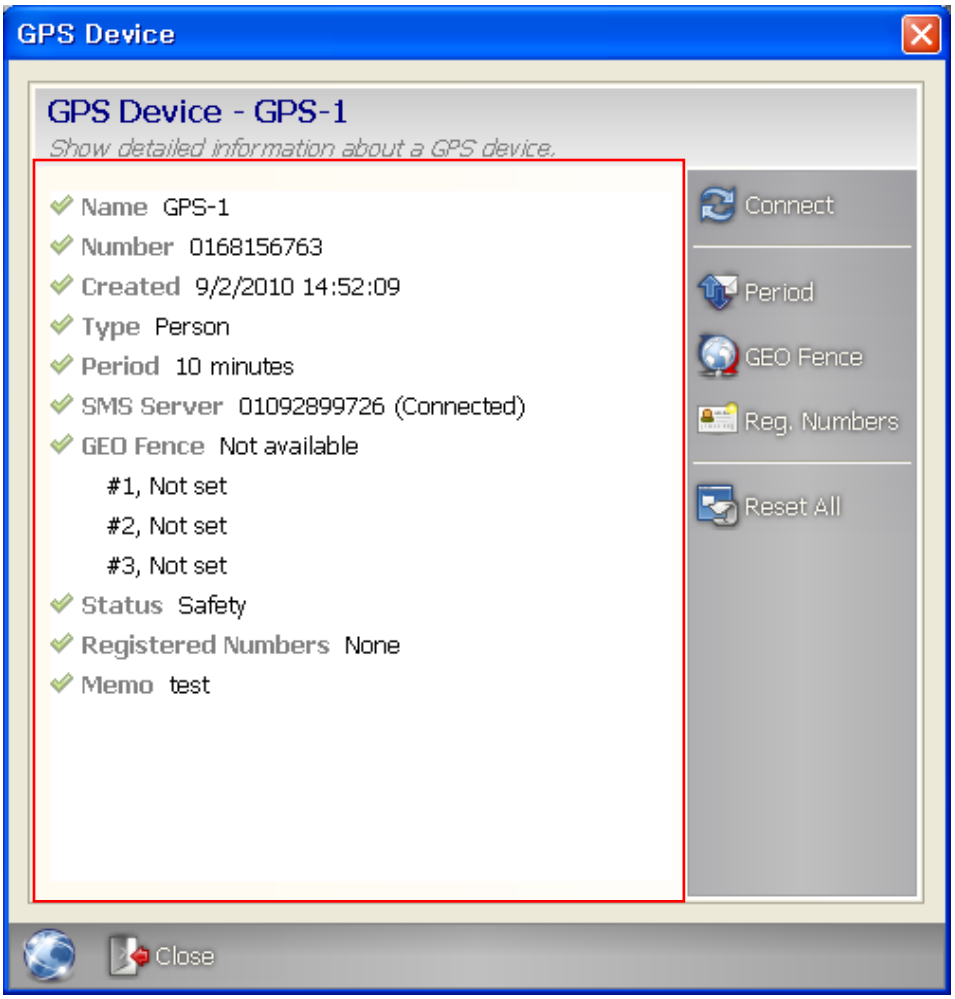
Click *Connect* to start.



Wait until the connection is done.

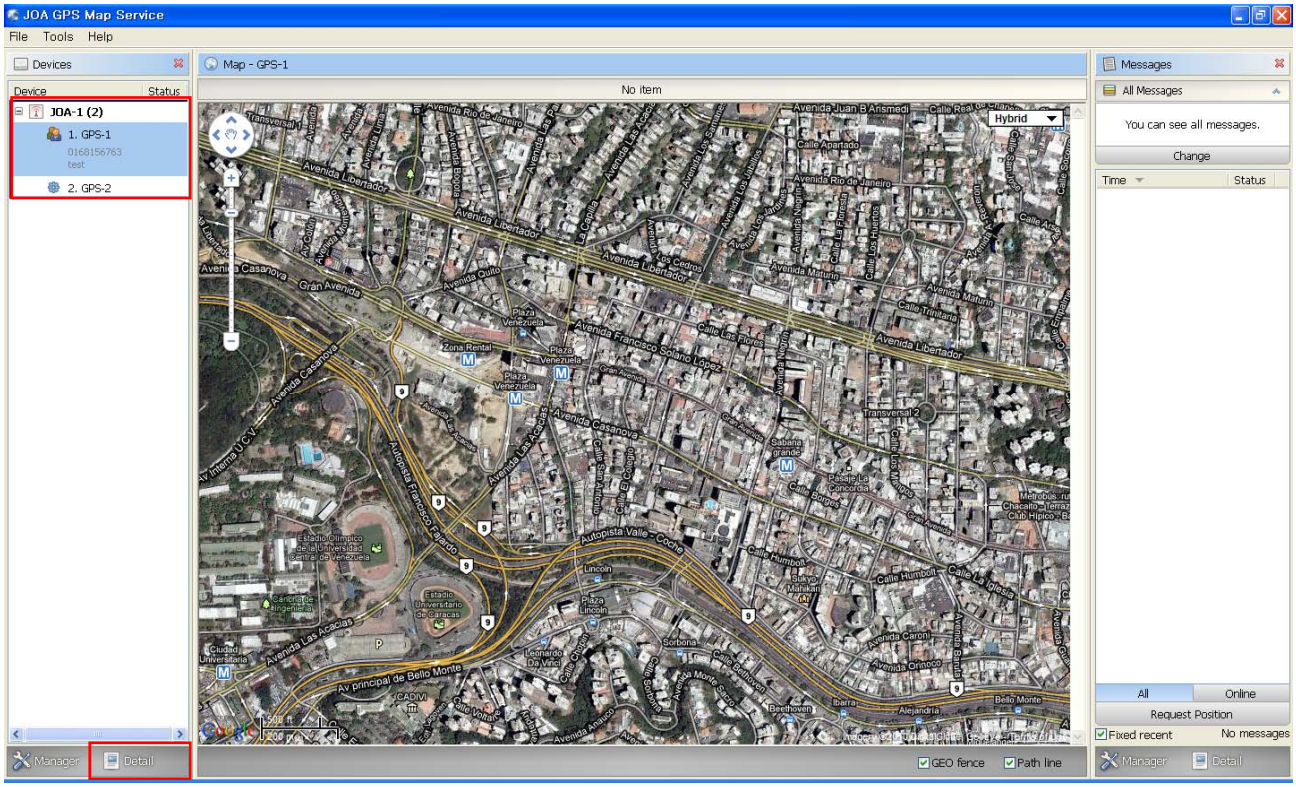
The connection is done correctly.

Make sure GPS Device status

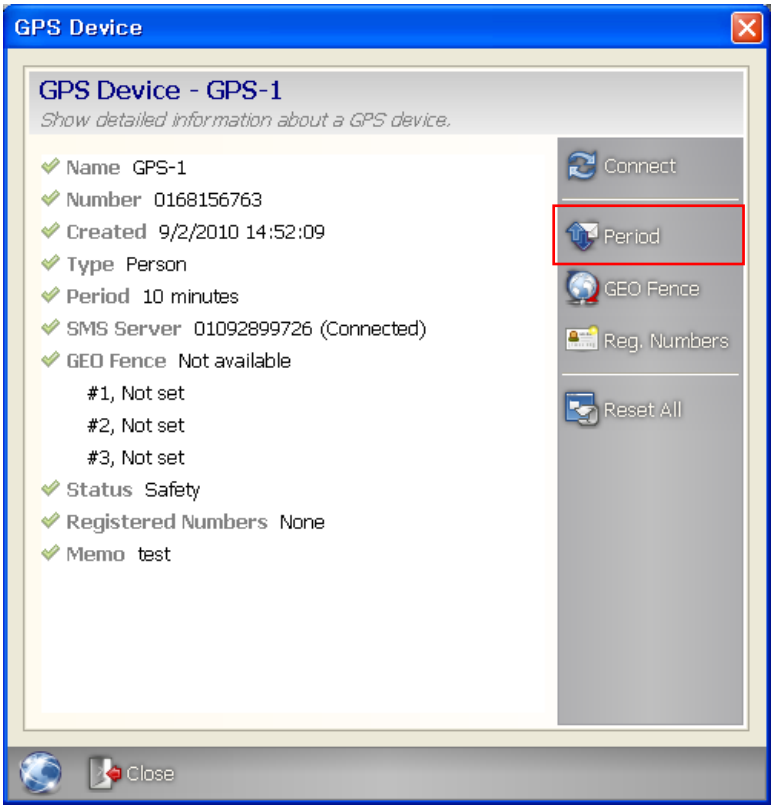


5-3. Changing Period

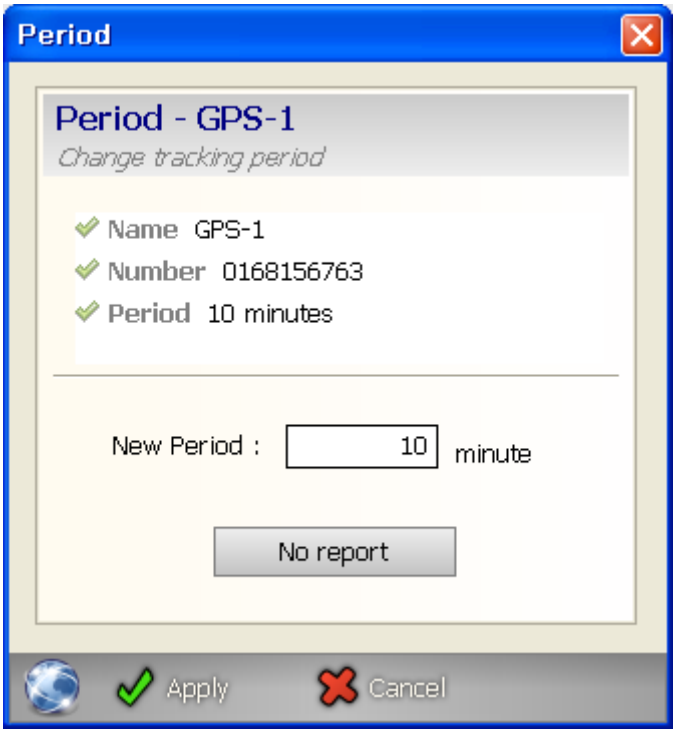
Select GPS Device that you want to change the tracking period.



Click *Detail* or double click GPS Device you select.

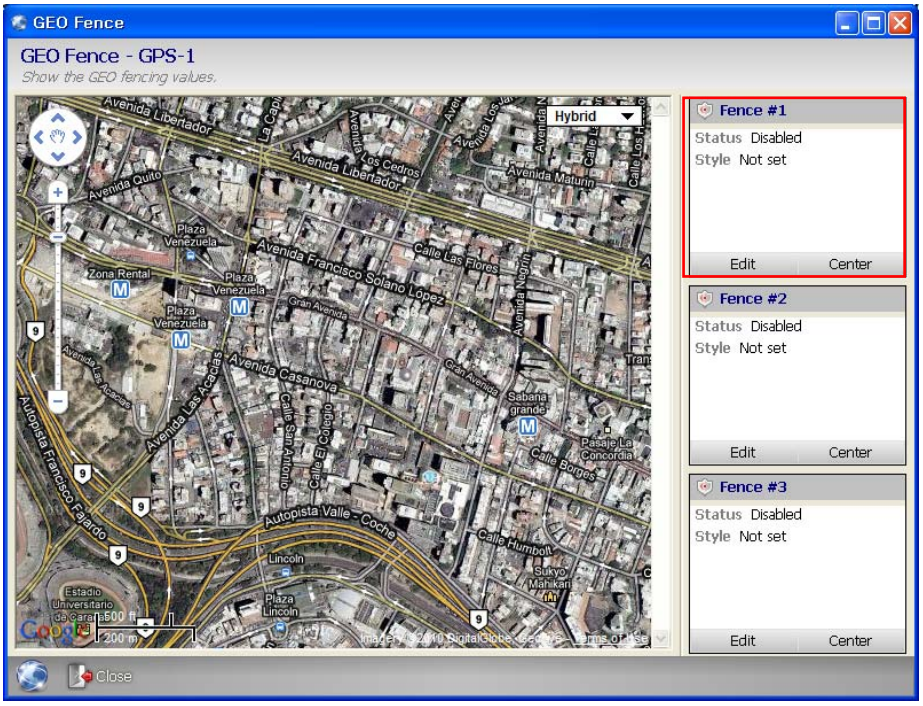


Default period is 10minutes. If you don't want to receive the position information, click *No report*.



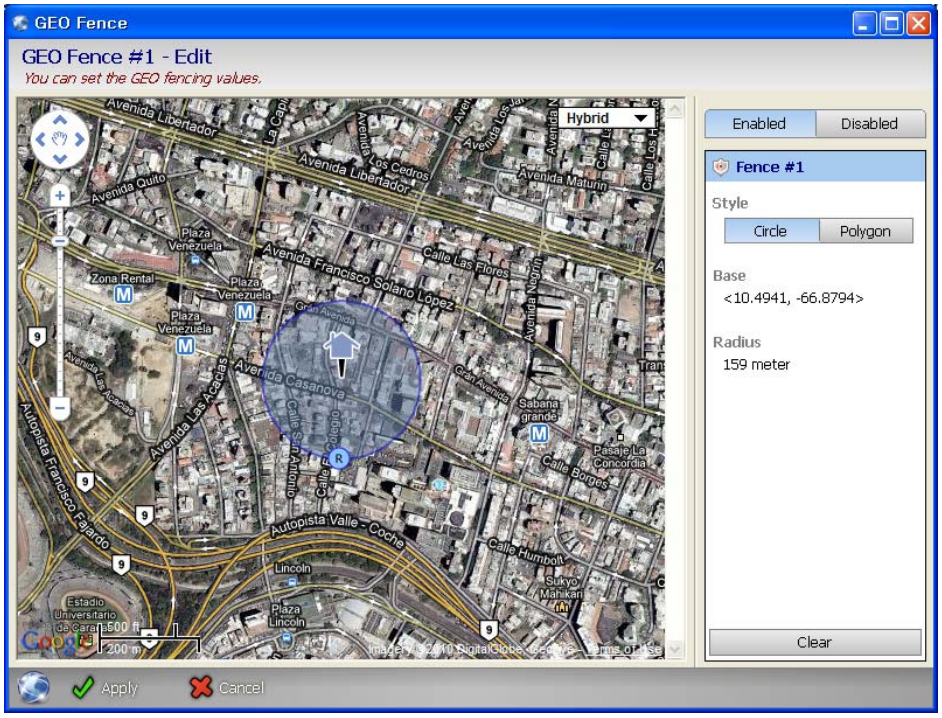
5-4. Setting GEO Fence

GEO Fence is another name of safety-zone. GPS Device sends SMS notice to the registered phone number of protector, whenever one get out of the *GEO Fence* or get in.
(Please refer to *Menu 5-5* for changing the period.)

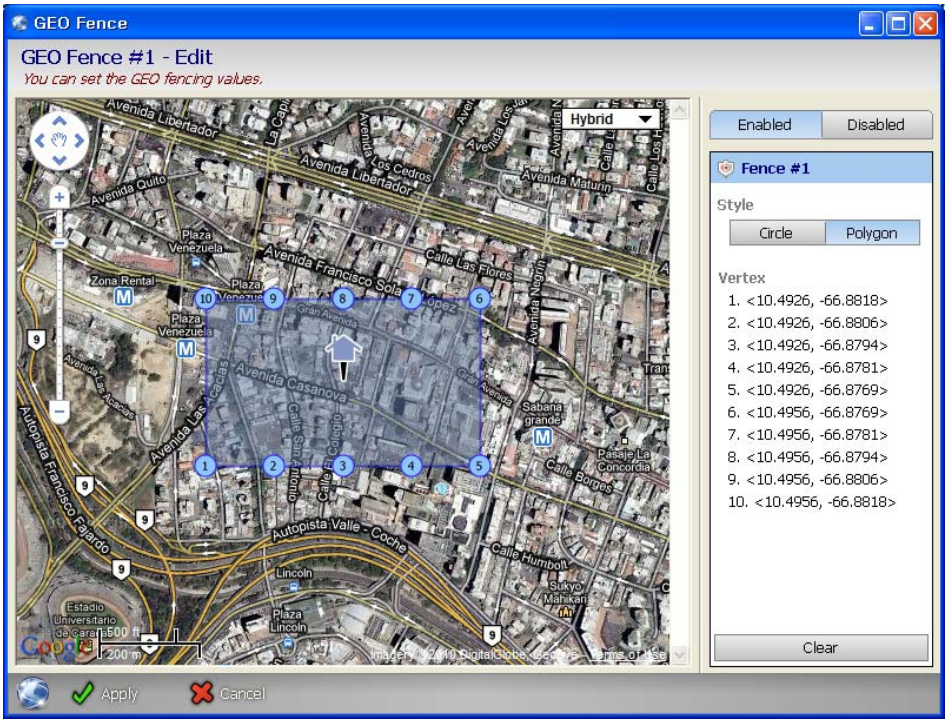


Enter *Edit* and select style.

-Circle Style-

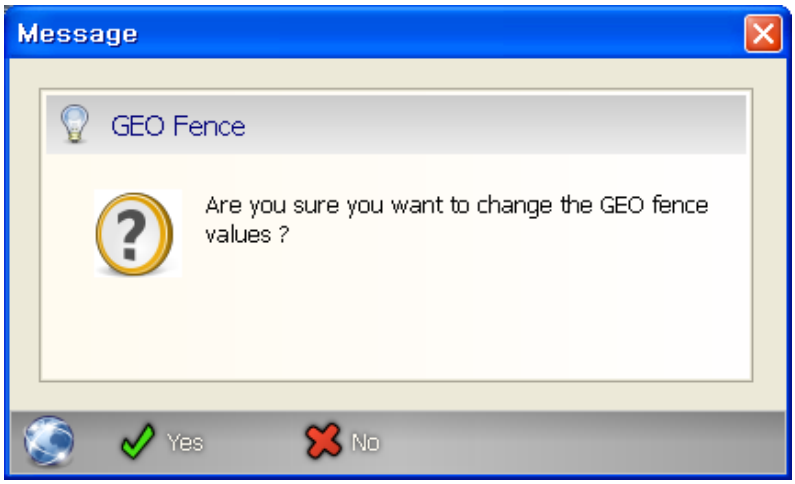


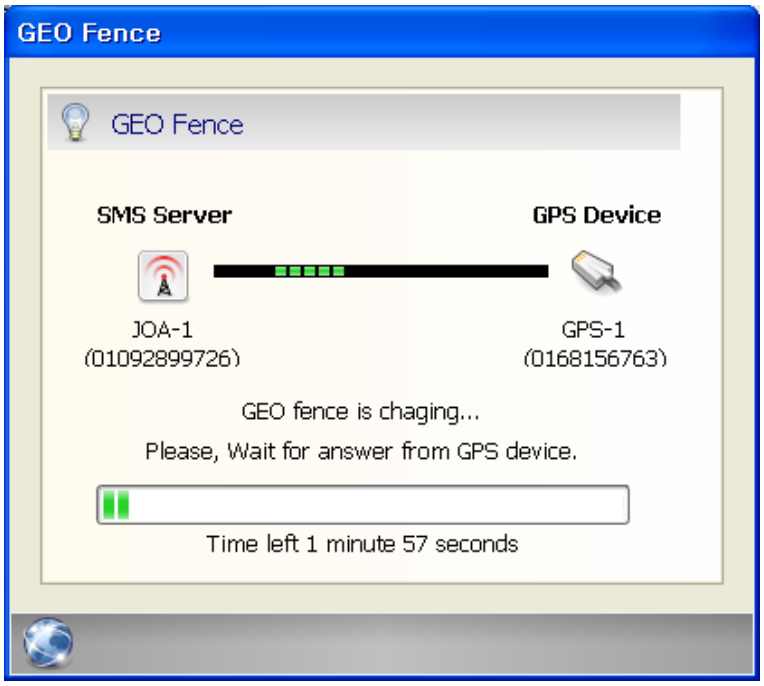
-Polygon Style-

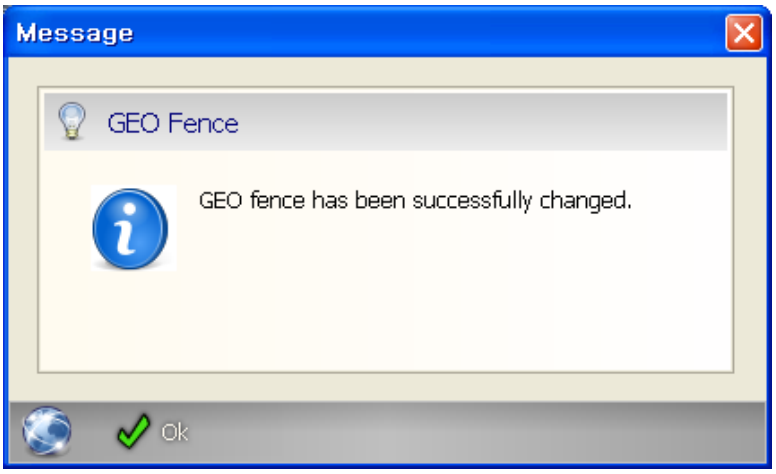


You can set the limits of *GEO Fence* by dragging icons. To apply G*EO Fence*, you have to click *Enabled,* if not click *Disabled.*

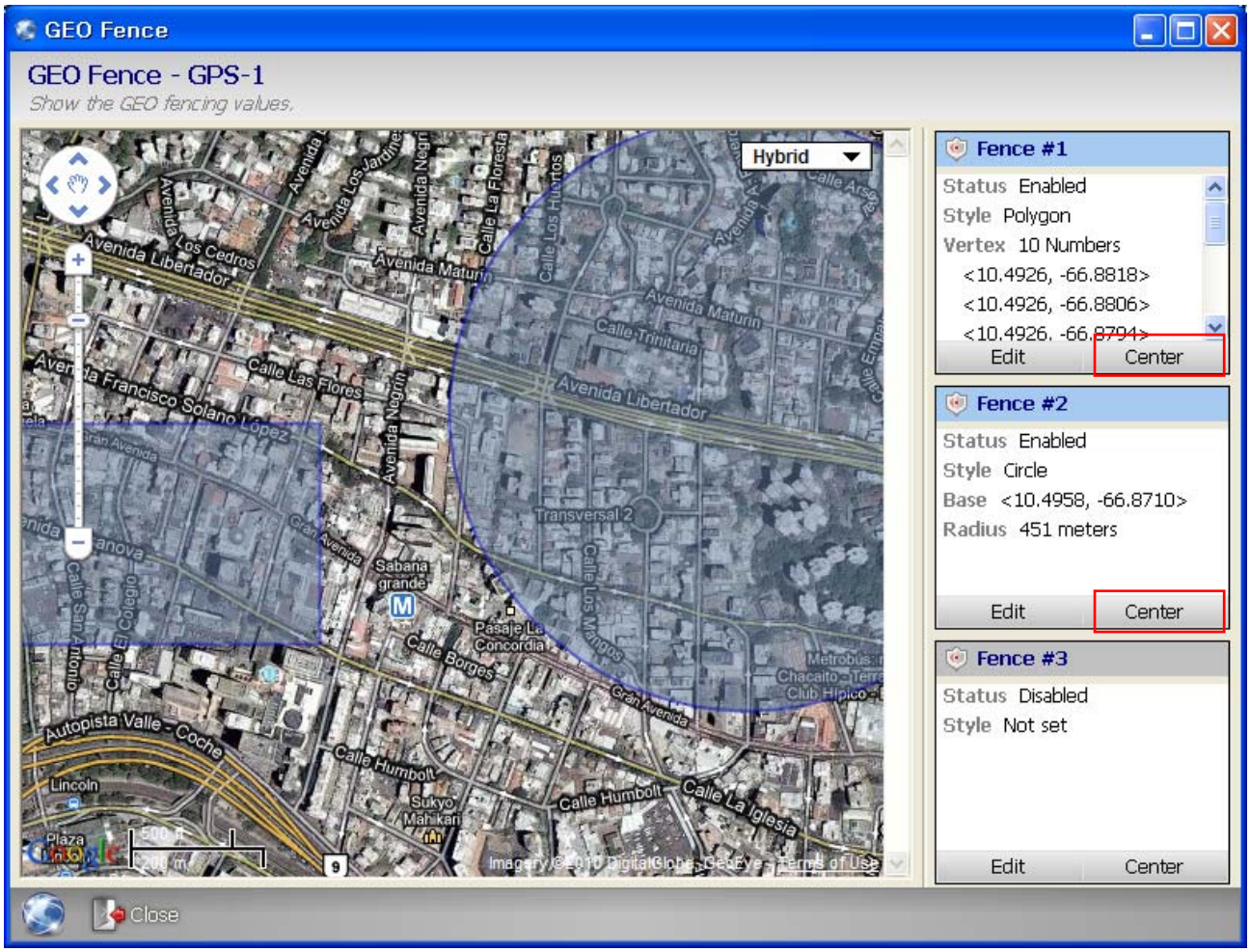
Click *Apply* to complete setting.




GEO Fence
GEO Fence
SMS Server
GPS Device
JOA-1
(01092899726)
GPS-1
(0168156763)
GEO fence is chaging...
Please, Wait for answer from GPS device.
Time left 1 minute 57 seconds

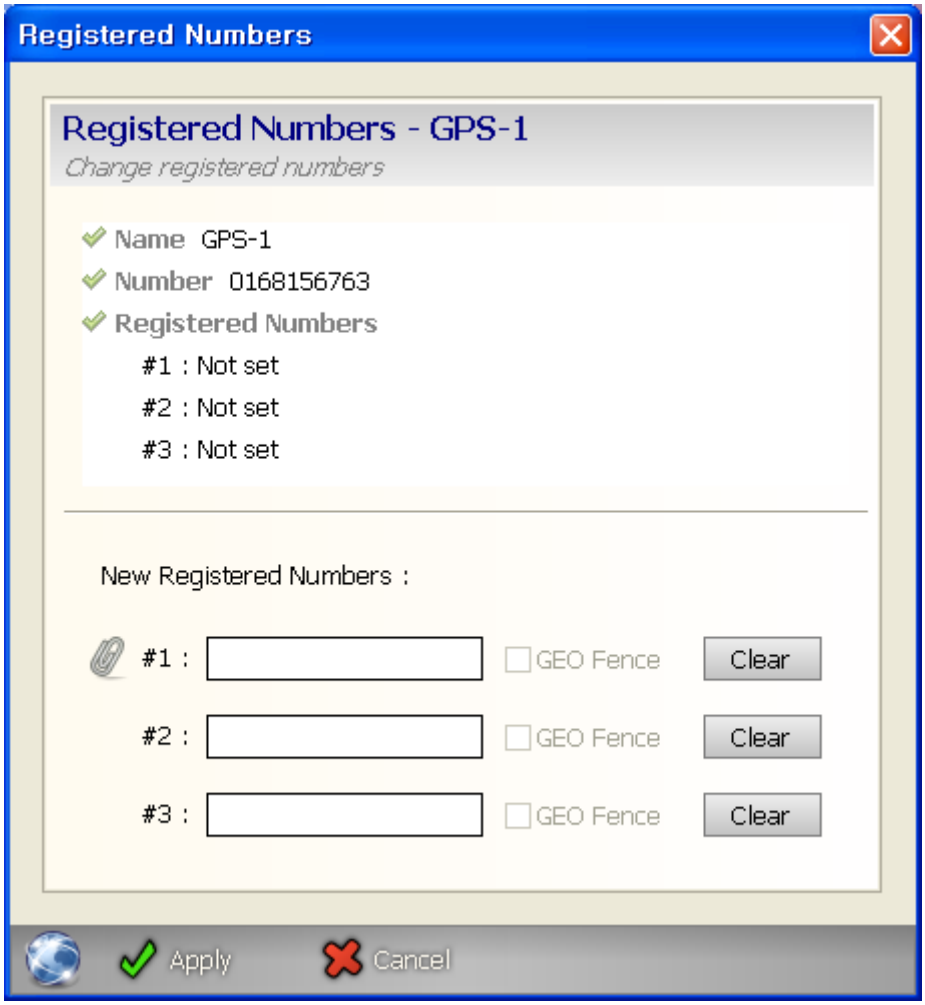

Message
GEO Fence
GEO fence has been successfully changed.
Ok

Make sure *GEO Fence* status.



If you want to move in the center of *GEO Fence*, click *Center.*

5-5. Registering the phone number of protector

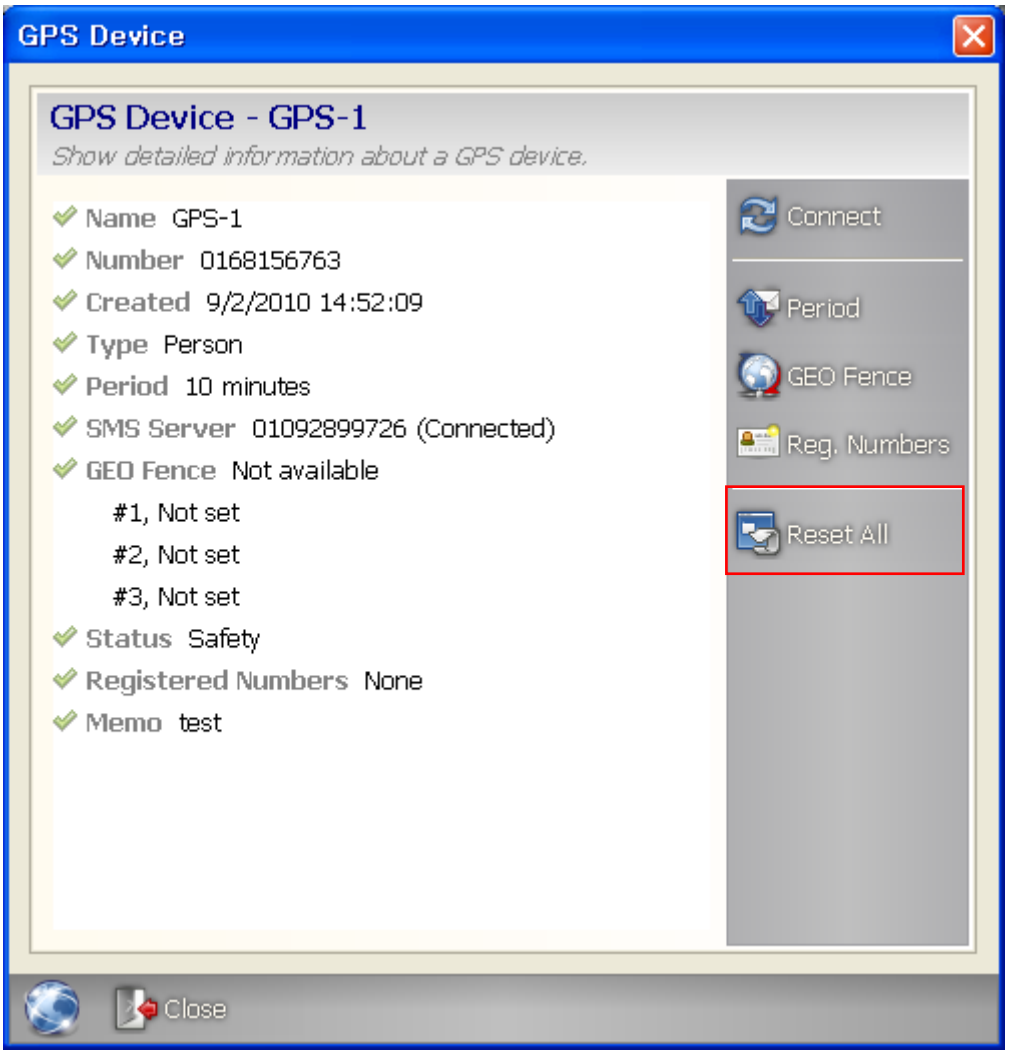


These numbers can receive *Emergency SMS* and *Geo Fence report SMS.*

Click *Apply* to complete.

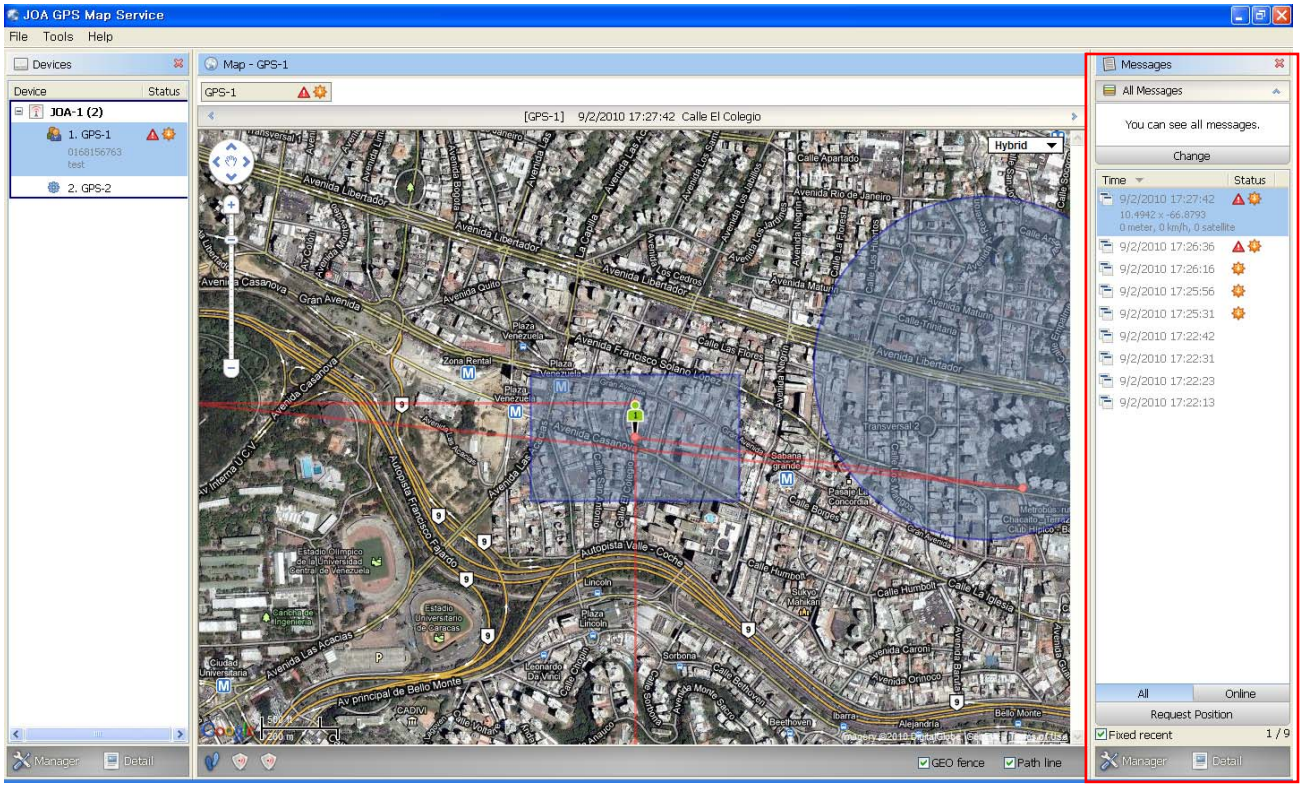
5-6. Resetting GPS Device

If you want reset GPS Device, click *Reset All*. The connection between GPS Device and SMS Server is broken.



6. Managing the position data messages

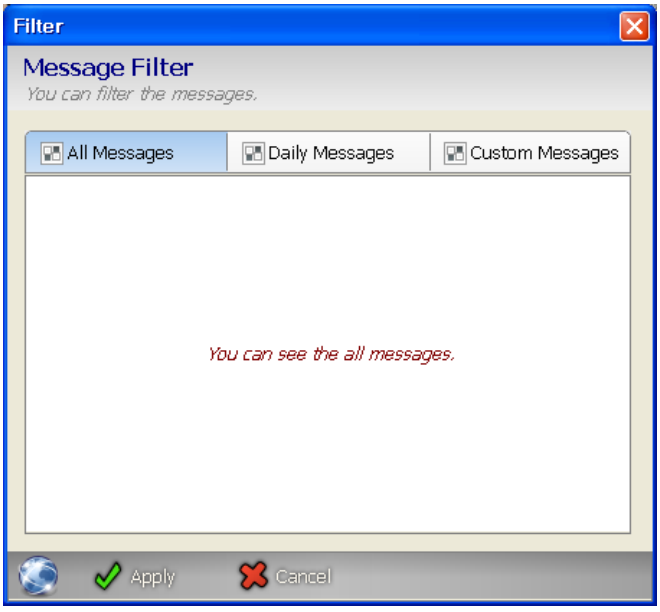
On the right side of map, position data messages appear.



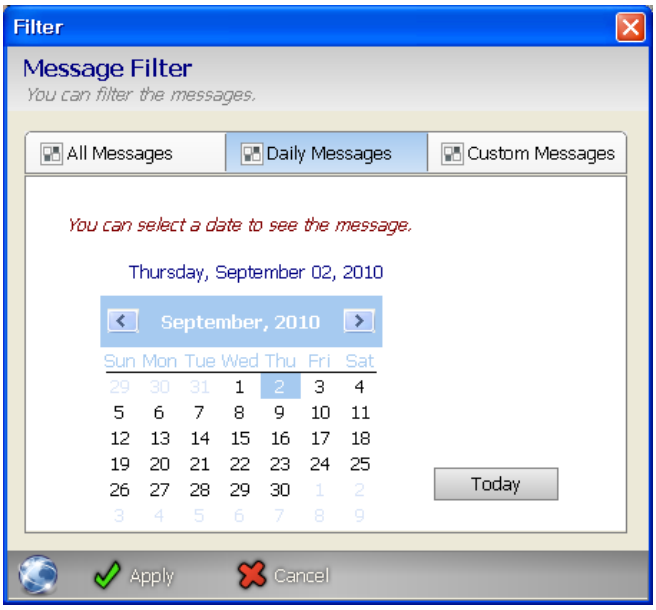
6-1. Message Filter

You can filter the messages.

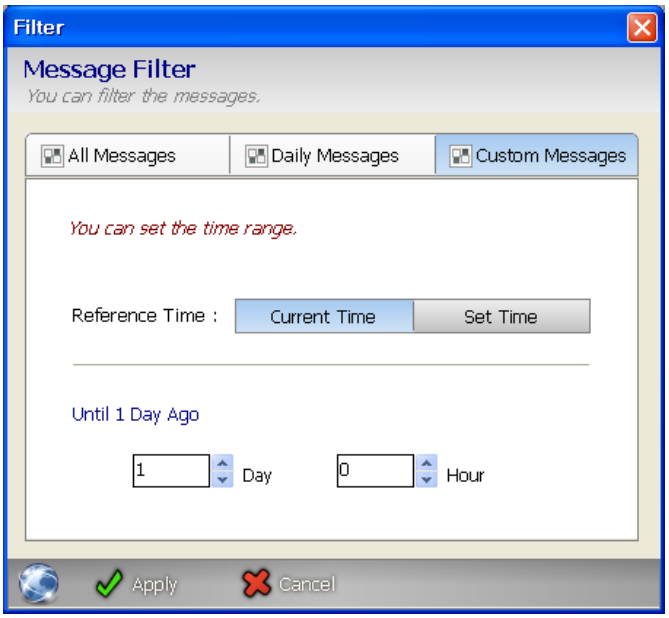
-All Messages-



-Daily Messages-

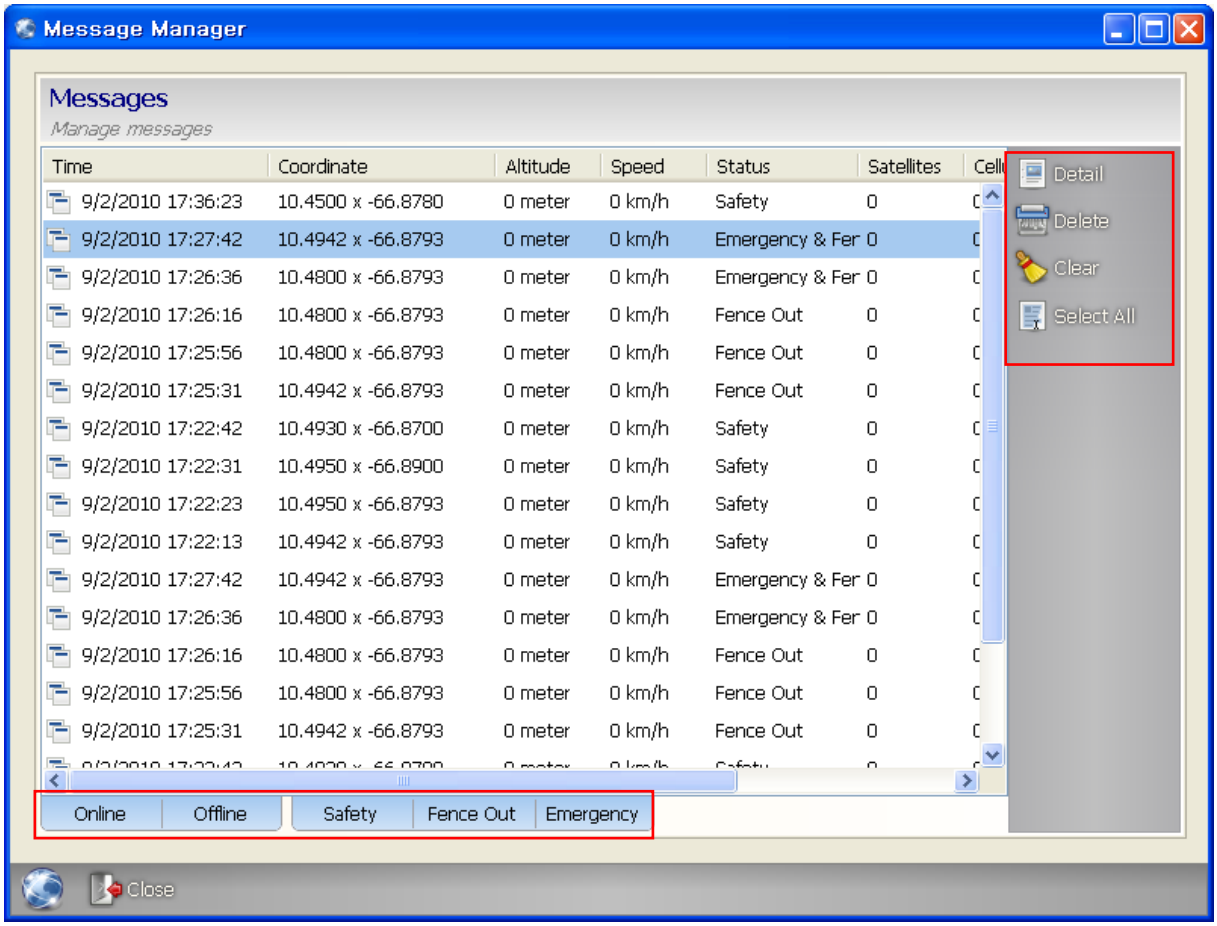


-Custom Messages-



6-2. Message Manager

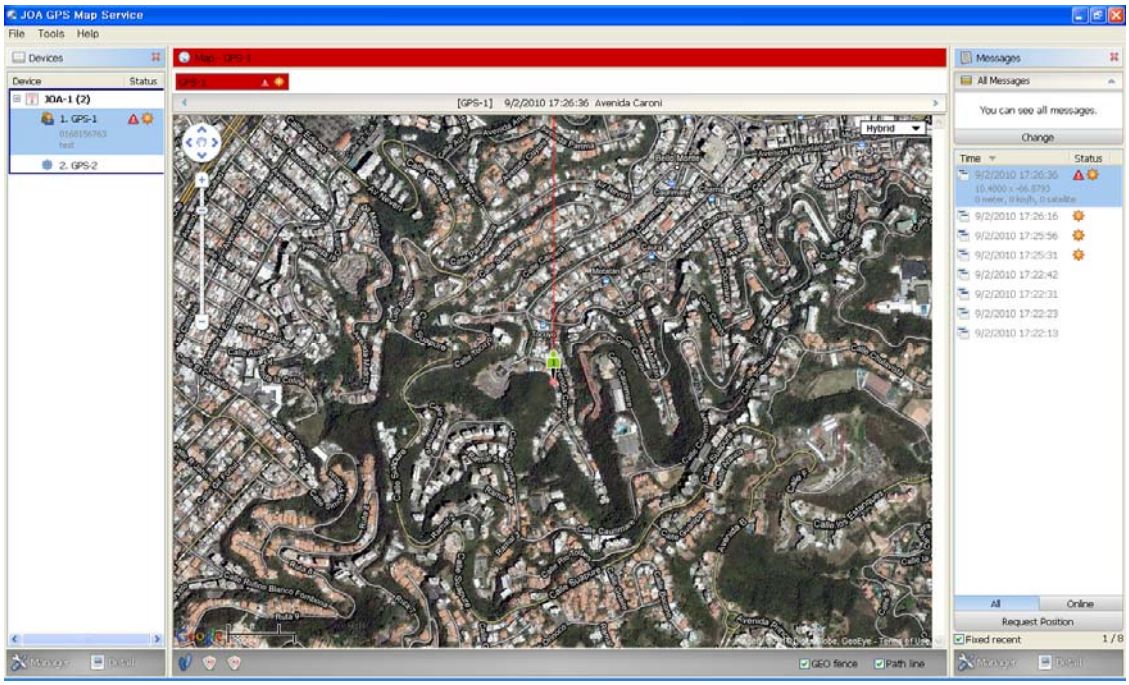
You can control the position data messages.



Click *Detail* to get the detailed information.
If you want to delete the messages, click *Delete* or *Clear* (delete all).
You can filter the messages by *Online/Offline* or *Safety/Fence Out/Emergency*.

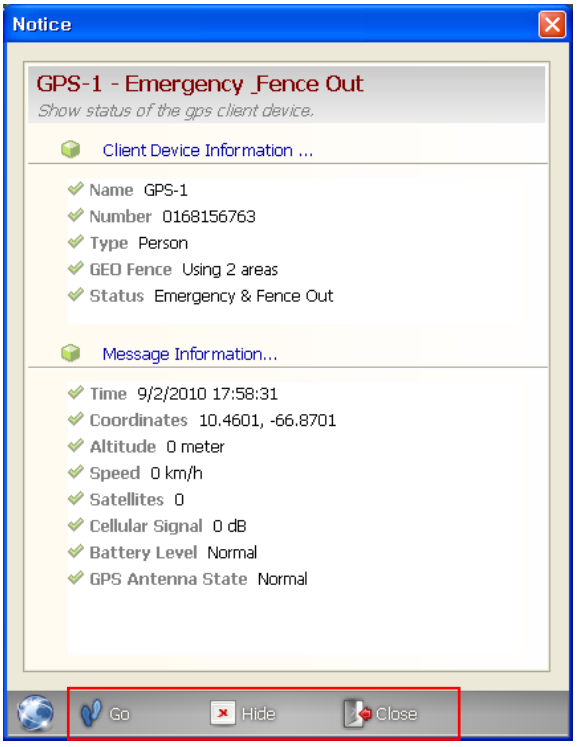
6-3. Emergency Warning

In emergency situation, a warning light blinks 3 times.



- Emergency
- Fence out

Click to get the detail.



Click to go the position of emergency situation.

Click to hide the warning marks.

7. SMS Request for the address of GPS Device

7-1. Registered protectors can request for the current address of GPS Device by sending SMS.
(Please refer to *Menu 5-5*)

7-2. Send SMS command to SMS Server's number. Command is #FIND.

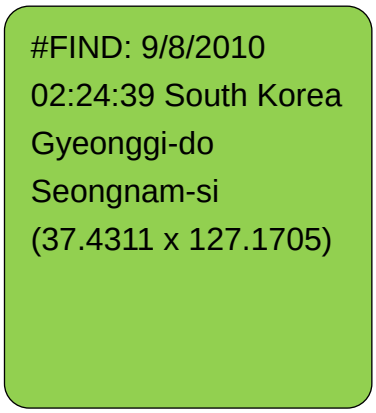
Ex) #FIND [GPS Device number]
! No need to care for Upper and lower case, and it can't contain spaces.

<Send>

7-3. Receive the message from *SMS Server*.

Ex) #FIND: [DATETIME] [ADDRESS] [LATITUDE x LONGITUDE]

<Receive>



FCC (Federal Communications Commission)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received,

Including interference that may cause undesired operations

Caution

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technical for help.

Body-worn Operation

This device was tested for typical body-worn operations with 5mm distance between the user`s body and this device.

In order to meet RF Maximum permissible Exposure Safety Guidelines, a minimum distance of 5mm shall be maintained between this device and personnel during transmitter operation.