

JOA GPS Map Service In your PC

User Manual



Revision 3.0

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1. Getting Started

1-1 Introduction

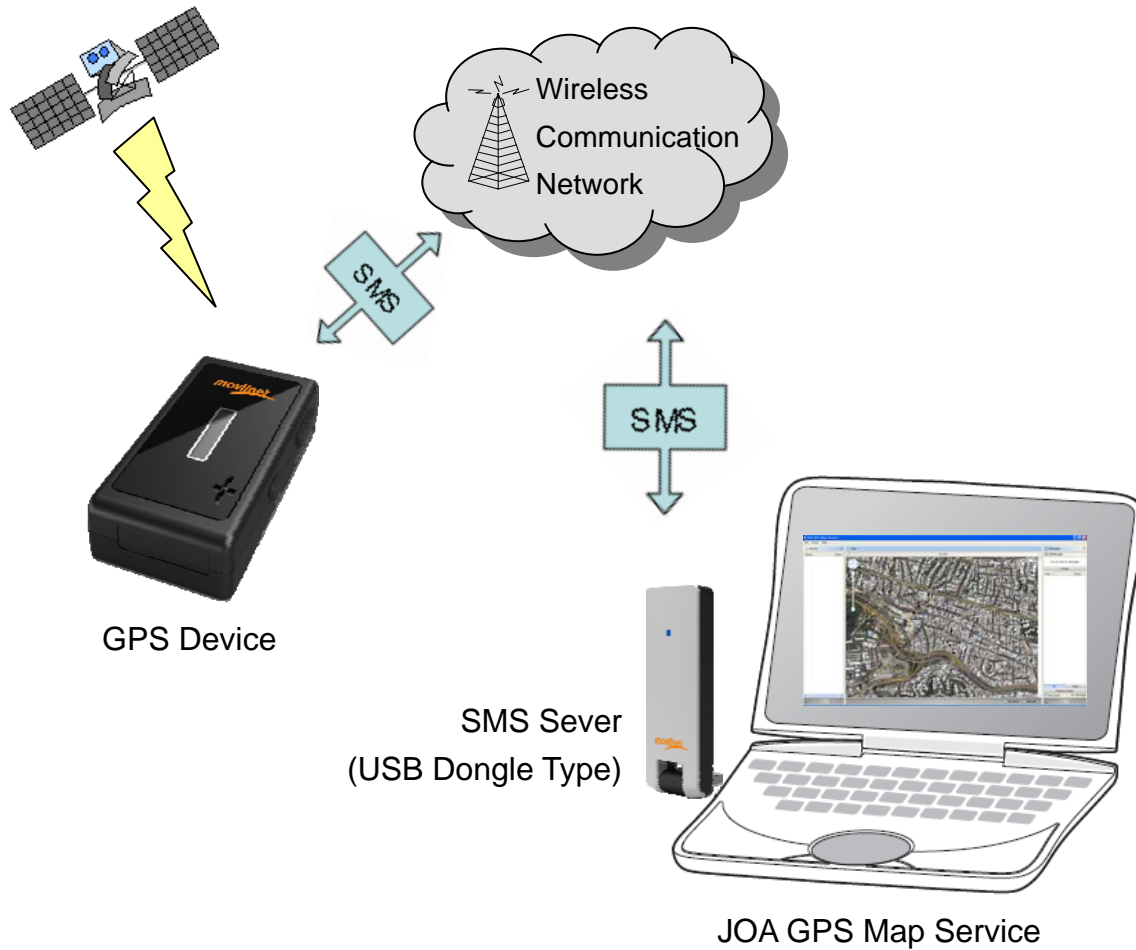
JOA GPS Map Service is real-time position tracking service using Google Map.

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.

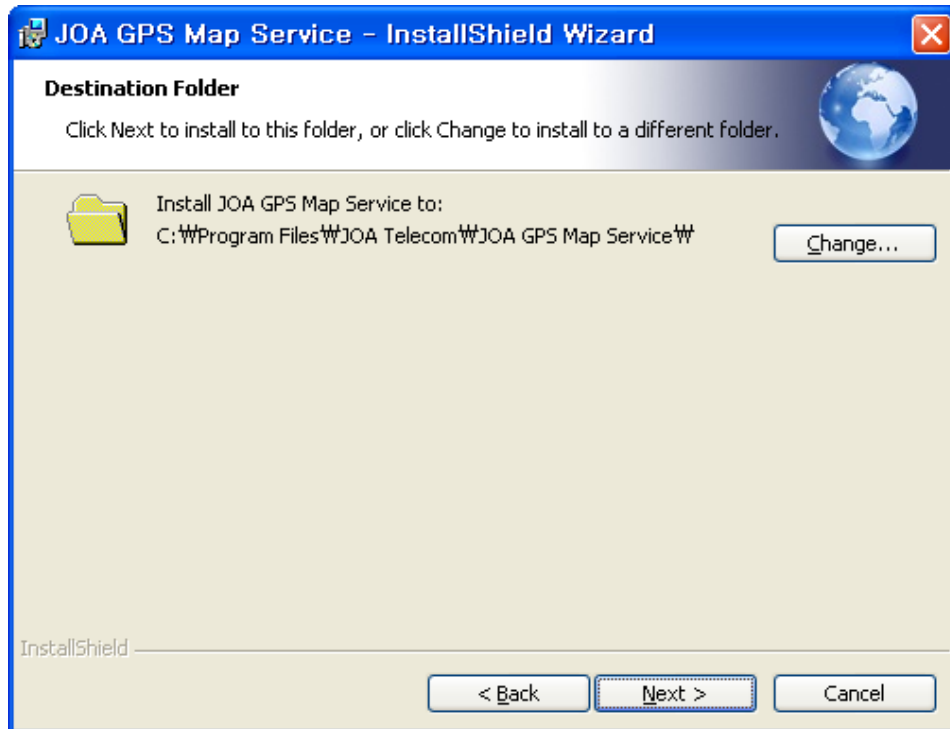


1-4-2. *Customer Information* screen will be open. Enter your information, and then click *Next*.

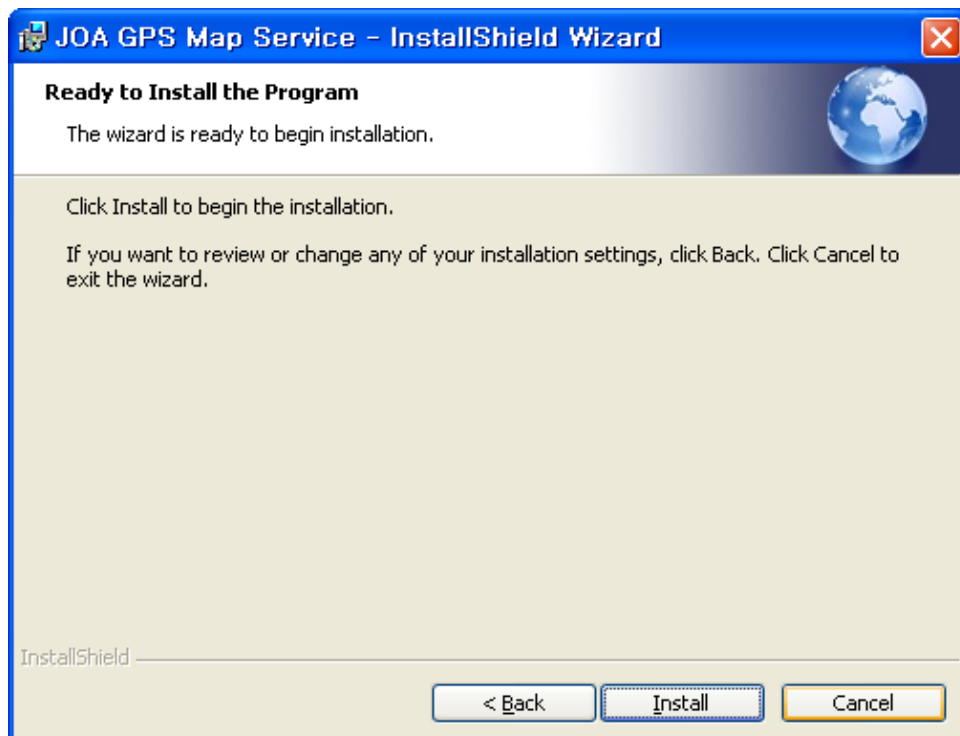


1-4-3. To install the *JOA GPS Map Service* in the default location, click *Next*. *Ready to Install the Program* screen will be open.

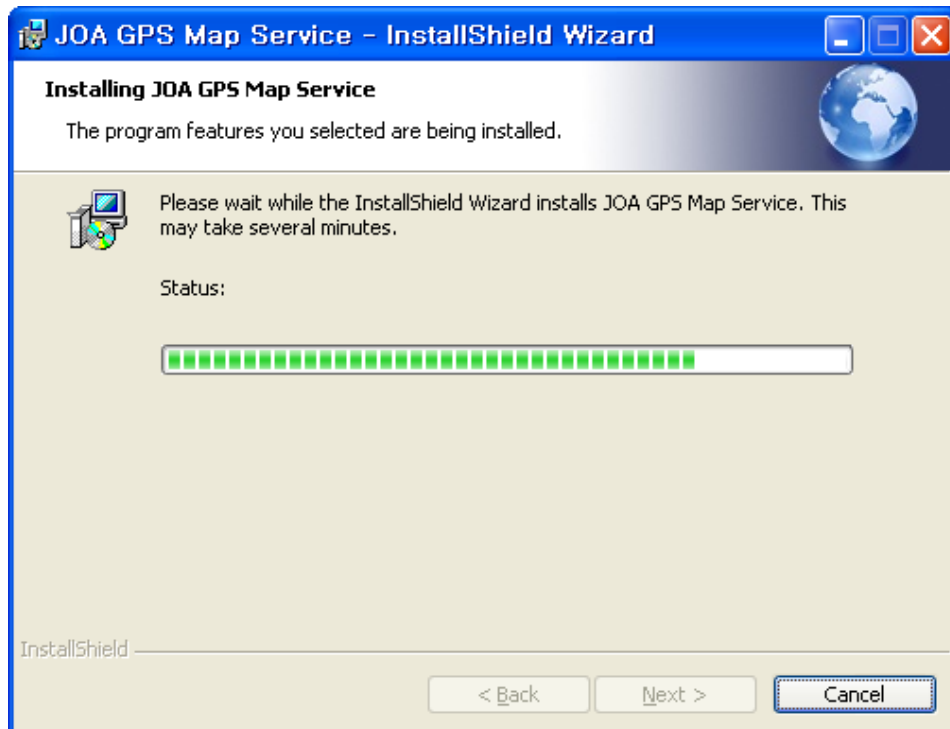
If you want to change the location, click *Change*. You can change the location you want.



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



1-4-5. Installation is in progress.

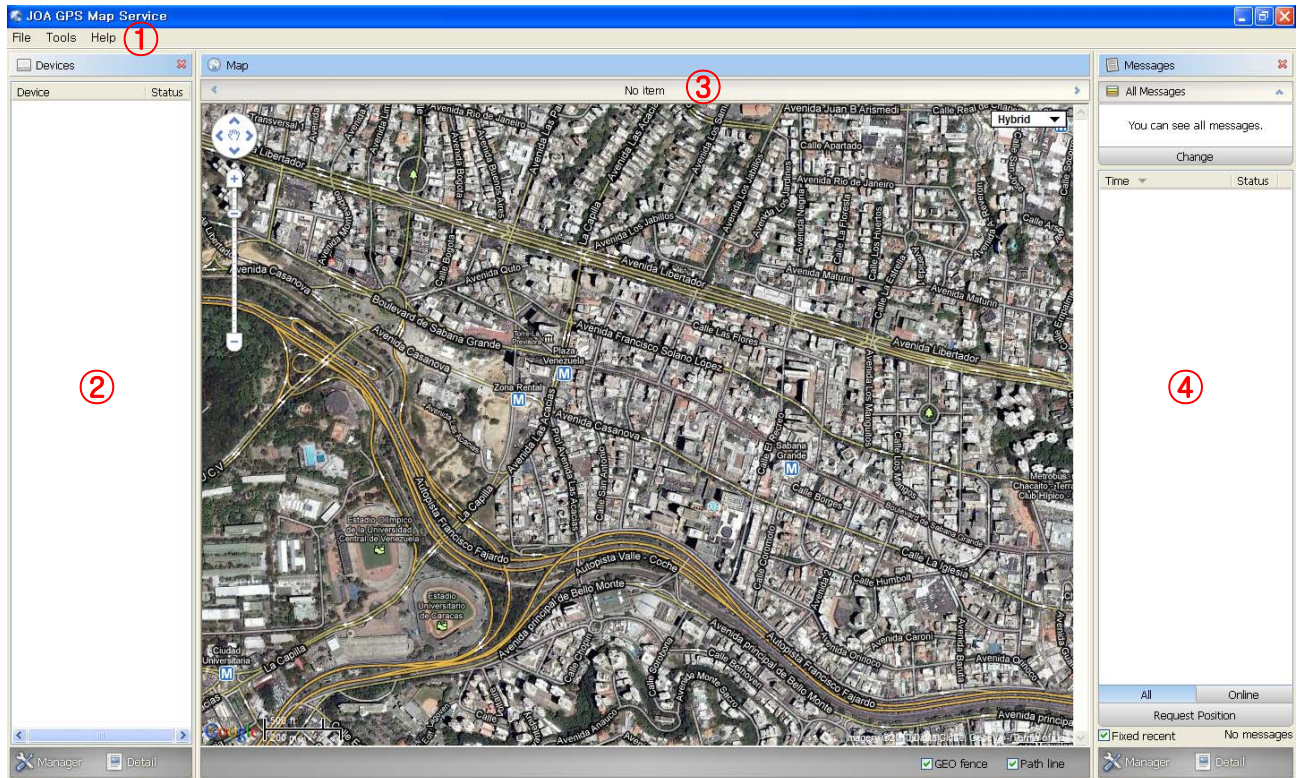


1-4-6. Installation is done. Click *Finish* to exit the wizard.



2. Overview

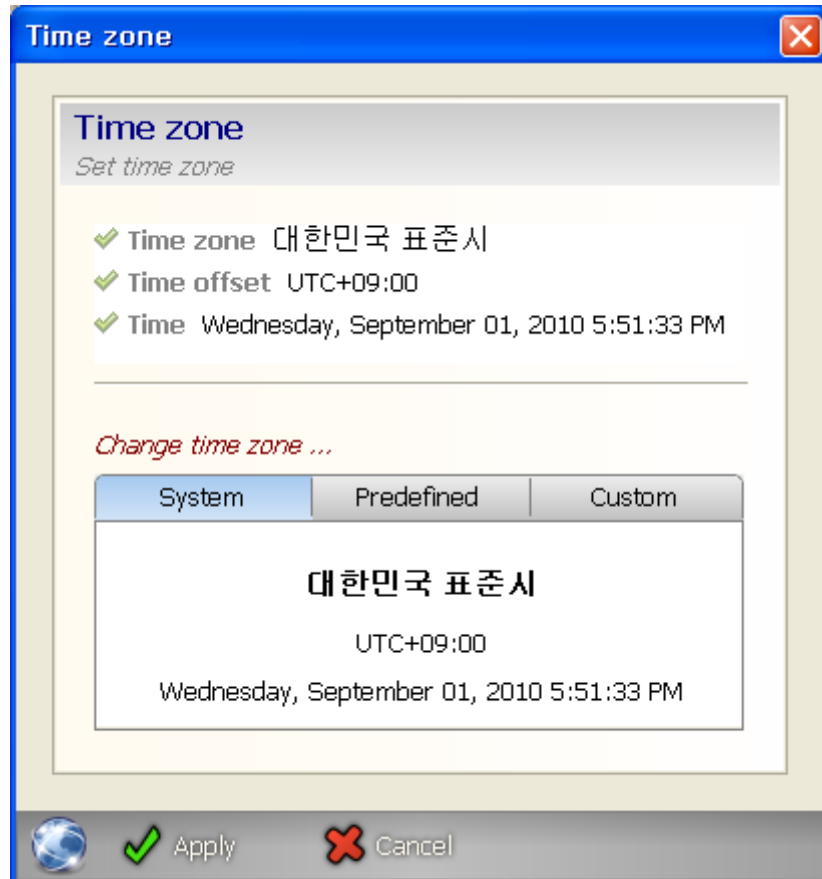
Make sure the main screen of *JOA GPS Map Service*.



- 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

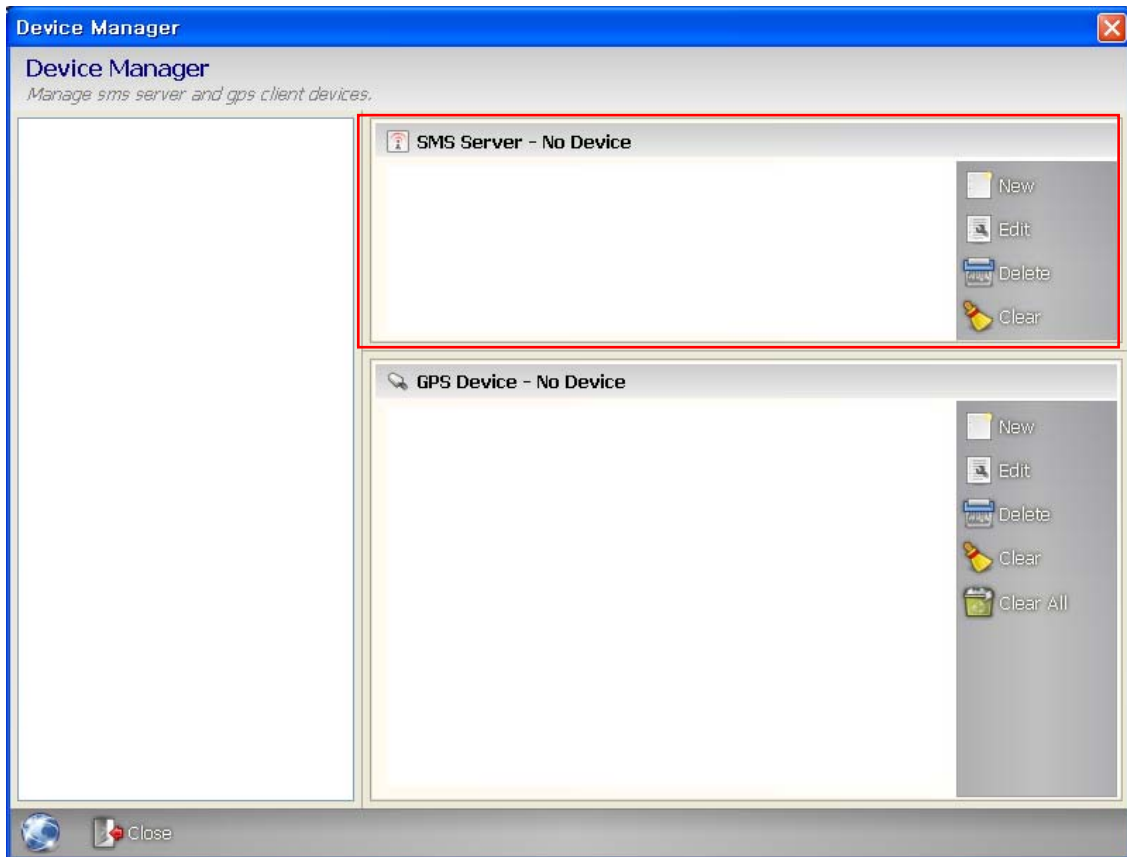
When you run *JOA GPS Map Service*, you have to set *Time zone* first.



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.

SMS Server Device

New - SMS Server Device
Add new SMS server device.

Enter server information.

Basic Information... *You have to enter this items.*

✓ Name *Max 32 characters.*

✓ Number *Max 32 digit numbers.*

Additional Information...

✓ Model *Max 32 characters.*

✓ Memo *Max 128 characters.*

Apply Cancel

Click *Apply* to complete adding.

Device Manager

Device Manager
Manage sms server and gps client devices.

JOA-1 (01092899726)

SMS Server - JOA-1

✓ Name JOA-1

✓ Number 01092899726

✓ Model C-300

✓ Created 9/2/2010 12:00:21

✓ Memo test

New Edit Delete Clear

GPS Device - No Device

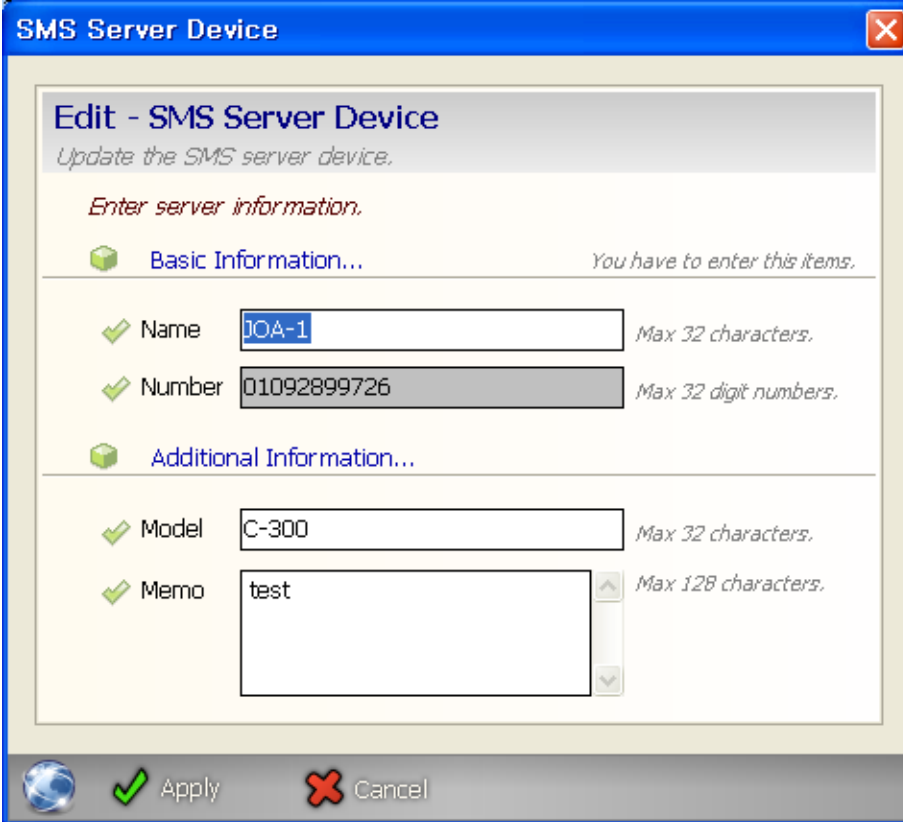
New Edit Delete Clear Clear All

Close

You can add another SMS Server in the same way.

4-1-2. Editing SMS Server

You can edit SMS Server information.



The screenshot shows a Windows-style dialog box titled "SMS Server Device" with a close button (X) in the top right corner. The main content area is titled "Edit - SMS Server Device" and includes the instruction "Update the SMS server device." Below this, it says "Enter server information." and "You have to enter this items." The form is divided into two sections: "Basic Information..." and "Additional Information...".

Basic Information...

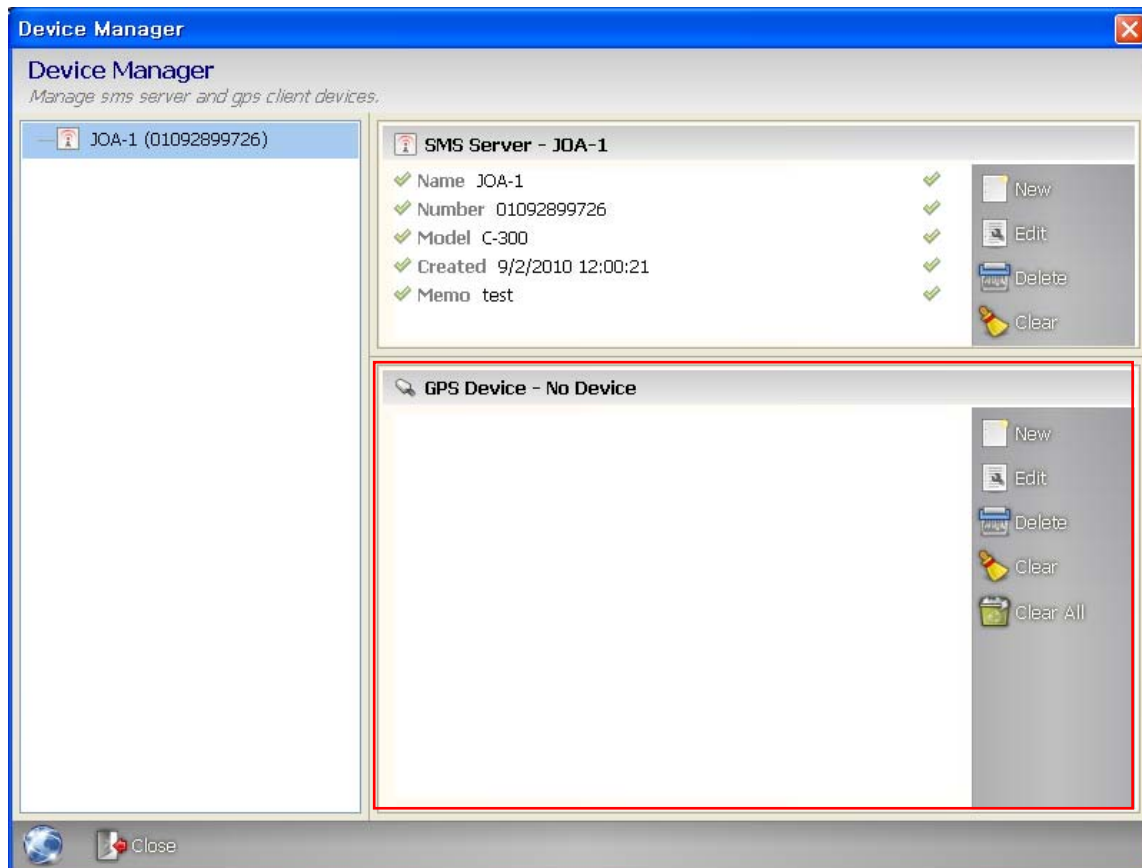
- Name:** A text box containing "JOA-1" with a green checkmark icon to its left. To the right of the box is the text "Max 32 characters."
- Number:** A text box containing "01092899726" with a green checkmark icon to its left. To the right of the box is the text "Max 32 digit numbers."

Additional Information...

- Model:** A text box containing "C-300" with a green checkmark icon to its left. To the right of the box is the text "Max 32 characters."
- Memo:** A text area containing "test" with a green checkmark icon to its left. To the right of the box is the text "Max 128 characters."

At the bottom of the dialog box, there are three buttons: a globe icon, a green checkmark icon labeled "Apply", and a red X icon labeled "Cancel".

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.

GPS Client Device

New - GPS Device
Add new GPS client device.

Enter client information.

Basic Information... *You have to enter this items.*

✓ Name *Max 32 characters.*

✓ Number *Max 32 digit numbers.*

✓ Type ☐ Person ☐ Vehicle *Select one.*

✓ Server *Select one.*

Additional Information...

✓ Memo *Max 128 characters.*

Apply Cancel

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

Device Manager
Manage sms server and gps client devices.

JOA-1 (01092899726)

GPS-1 (0168156763)

SMS Server - JOA-1

✓ Name JOA-1

✓ Number 01092899726

✓ Model C-300

✓ Created 9/2/2010 12:00:21

✓ Memo test

GPS Device - GPS-1

✓ Name GPS-1

✓ Number 0168156763

✓ Created 9/2/2010 14:52:09

✓ Type Person

✓ Period 10 minutes

✓ SMS Server 01092899726 (Disconnected)

✓ GEO Fence Not available

✓ Status Safety

✓ Registered Numbers None

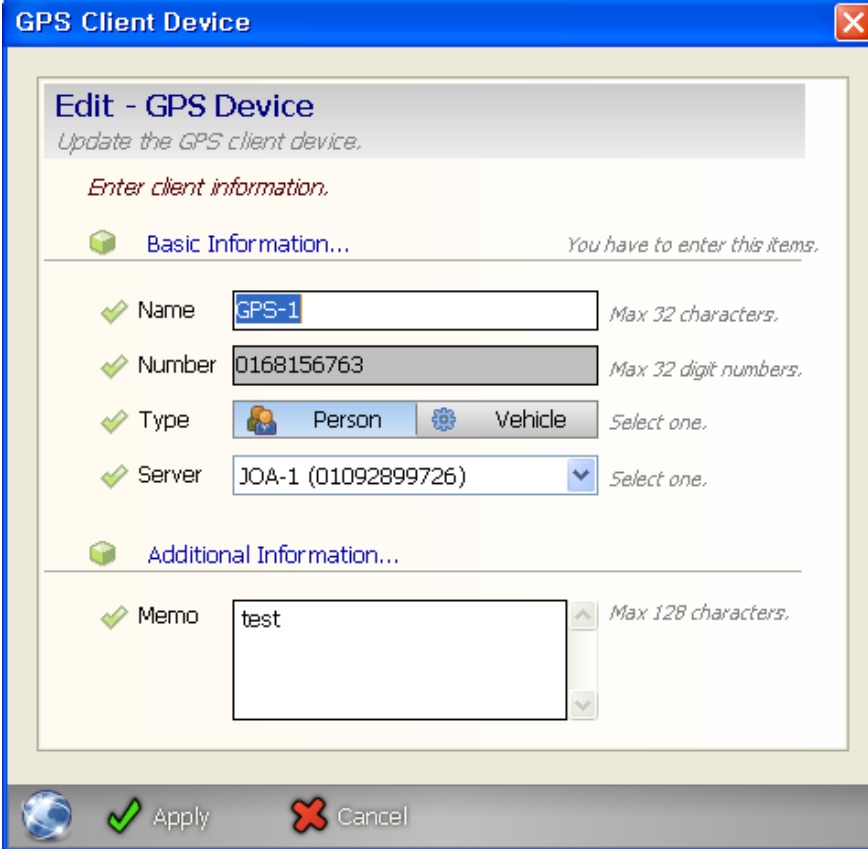
✓ Memo test

Close

You can add another GPS Device in the same way.

4-2-2. Editing GPS Device

You can edit GPS Device information.



The screenshot shows a window titled "GPS Client Device" with a close button in the top right corner. Inside the window is a form titled "Edit - GPS Device" with the subtitle "Update the GPS client device." Below the subtitle is the instruction "Enter client information." The form is divided into two sections: "Basic Information..." and "Additional Information...".

Basic Information... (You have to enter this items.)

- Name:** A text box containing "GPS-1" with a green checkmark icon to its left. To the right of the box is the text "Max 32 characters."
- Number:** A text box containing "0168156763" with a green checkmark icon to its left. To the right of the box is the text "Max 32 digit numbers."
- Type:** Two radio buttons labeled "Person" and "Vehicle". The "Person" button is selected and has a green checkmark icon to its left. To the right of the buttons is the text "Select one."
- Server:** A dropdown menu showing "JOA-1 (01092899726)" with a green checkmark icon to its left. To the right of the dropdown is the text "Select one."

Additional Information...

- Memo:** A text area containing the word "test" with a green checkmark icon to its left. To the right of the text area is the text "Max 128 characters."

At the bottom of the dialog box are three buttons: a globe icon, a green checkmark icon labeled "Apply", and a red X icon labeled "Cancel".

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*.

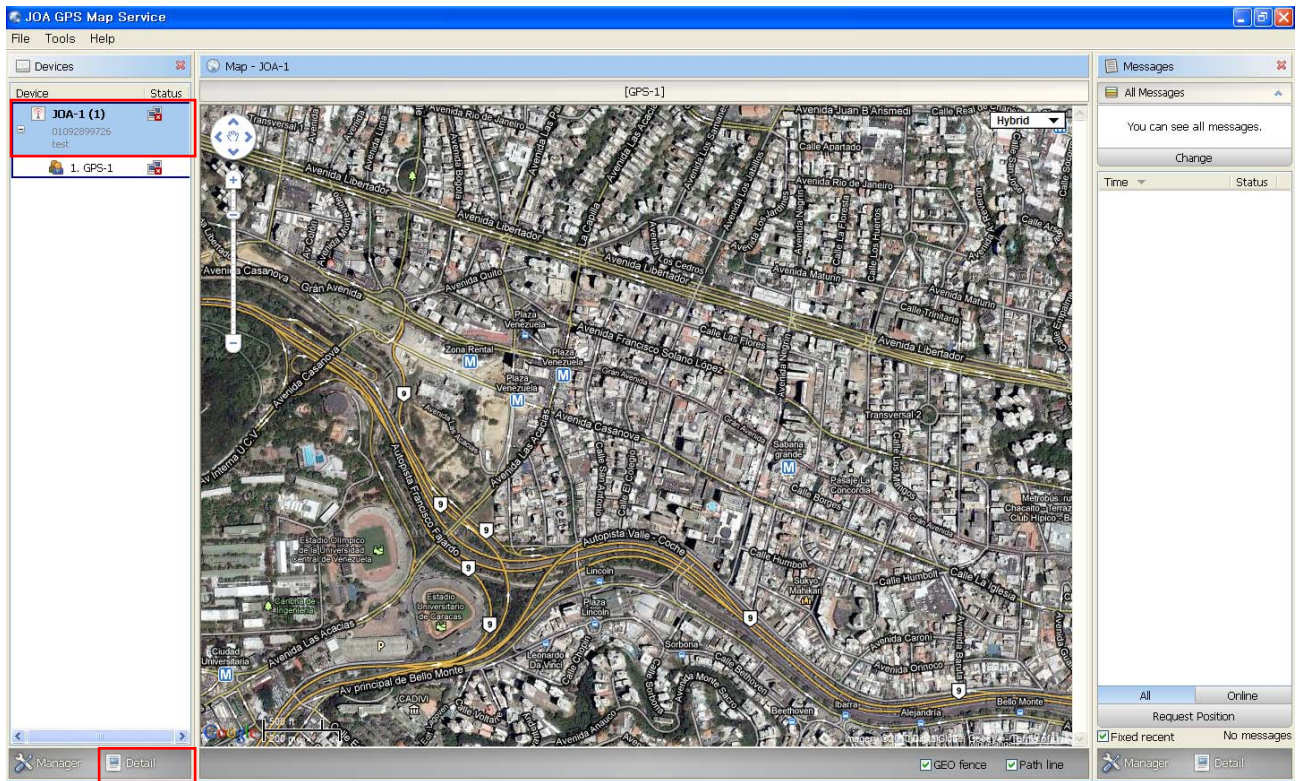
5-1-1. Connecting SMS Server to your PC

Connect SMS Server to USB port on your PC.

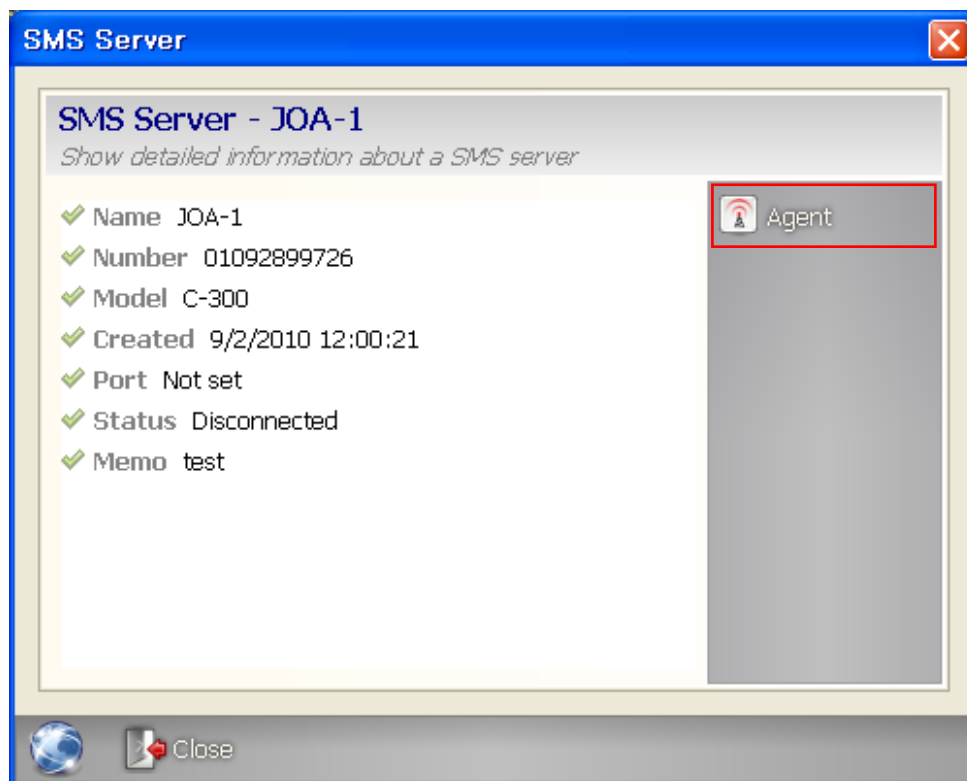


! For connecting SMS Server to PC, JOA USB Driver should be installed in your PC. Driver is in the provided installation CD or you can download from our website.

5-1-2. Starting JOA SMS Control Agent



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



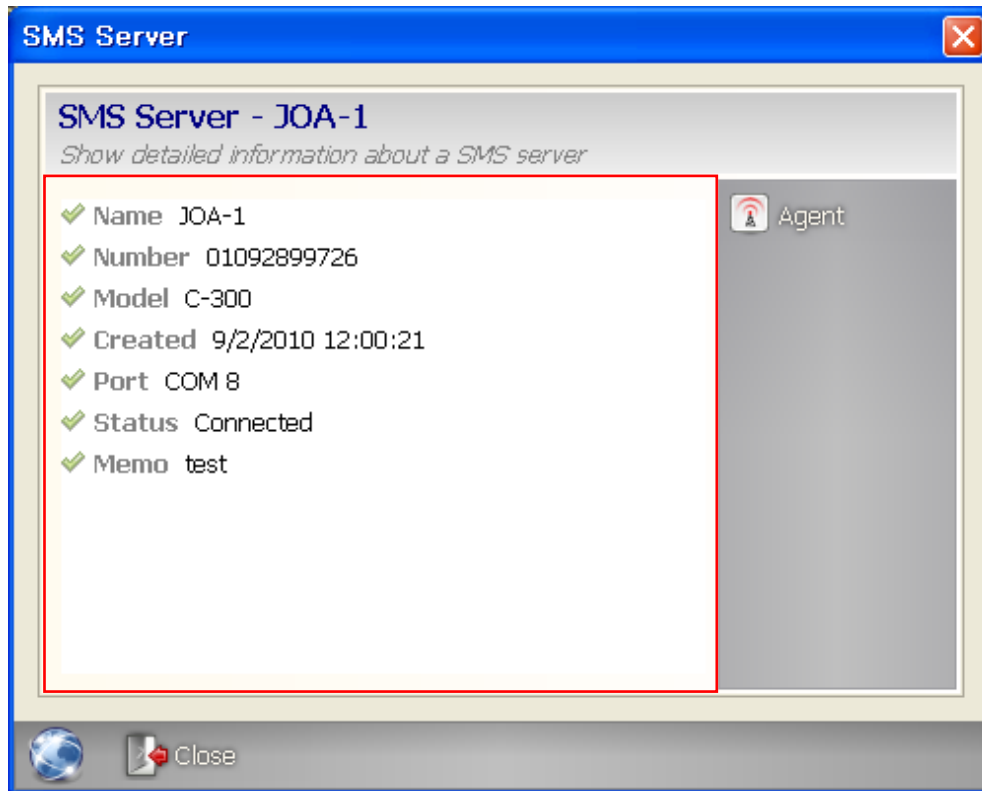
Make sure SMS Server information and enter *Agent*.

The screenshot shows the 'JOA SMS Control Agent (92899726)' v2.0 window. The 'Connection' section displays 'Port : Not set' with a browse button and 'Status : Disconnected'. The 'Server Information' section has empty fields for 'Model' and 'Number'. A 'Hide' button is at the bottom.

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

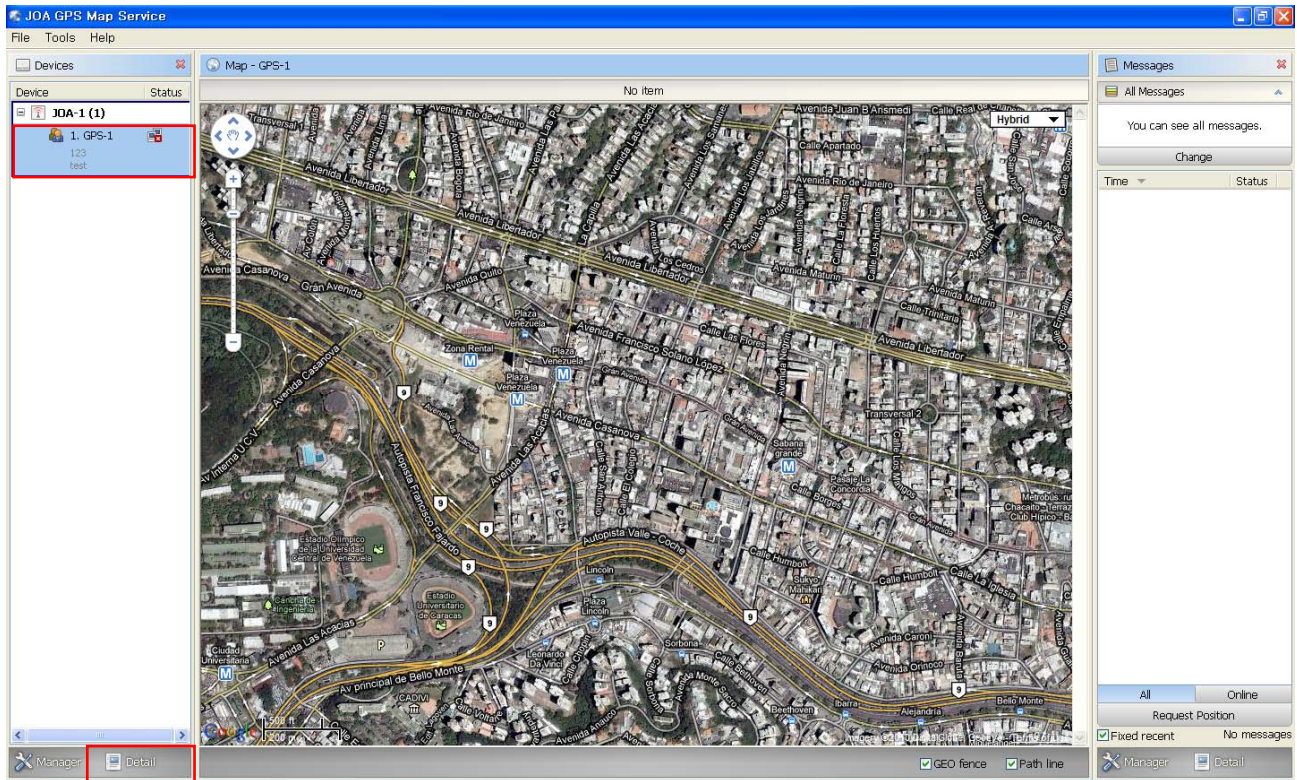
The screenshot shows the 'JOA SMS Control Agent (92899726)' v2.0 window after a successful connection. The 'Connection' section now shows 'Port : COM 8' and 'Status : Connected'. The 'Server Information' section is populated with 'Model : QSC6010-C300- 1 [Dec 18 2006]' and 'Number : 01092899726'. The 'Hide' button remains at the bottom.

Close the window and make sure SMS Server status.



5-2. Connecting GPS Device

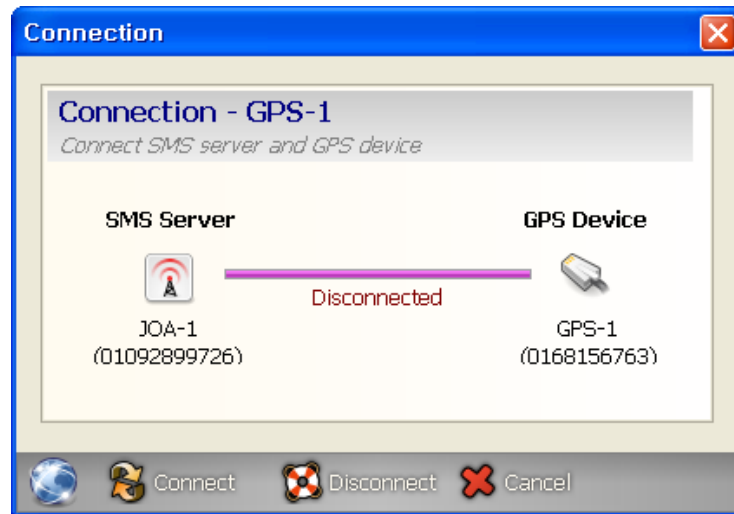
To use *JOA GPS Map Service*, you have to connect GPS Device to SMS Server.



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



Click *Connect* to start.

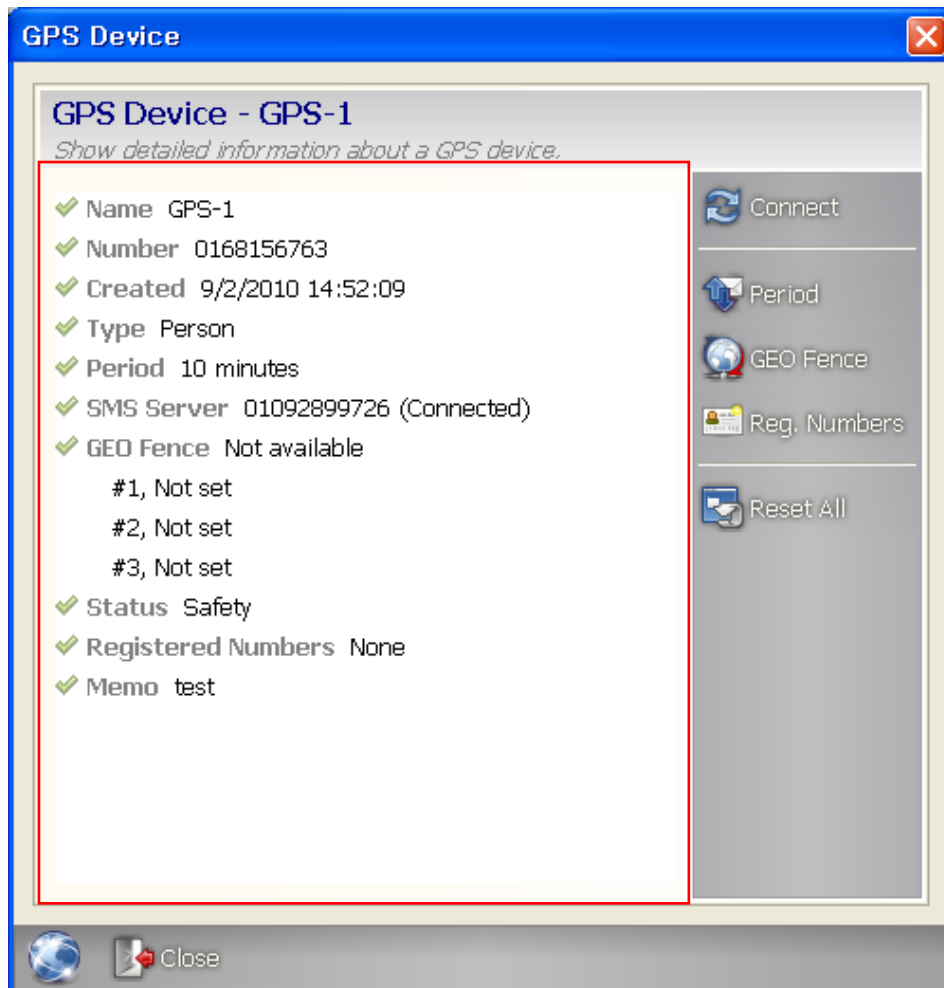


Wait until the connection is done.



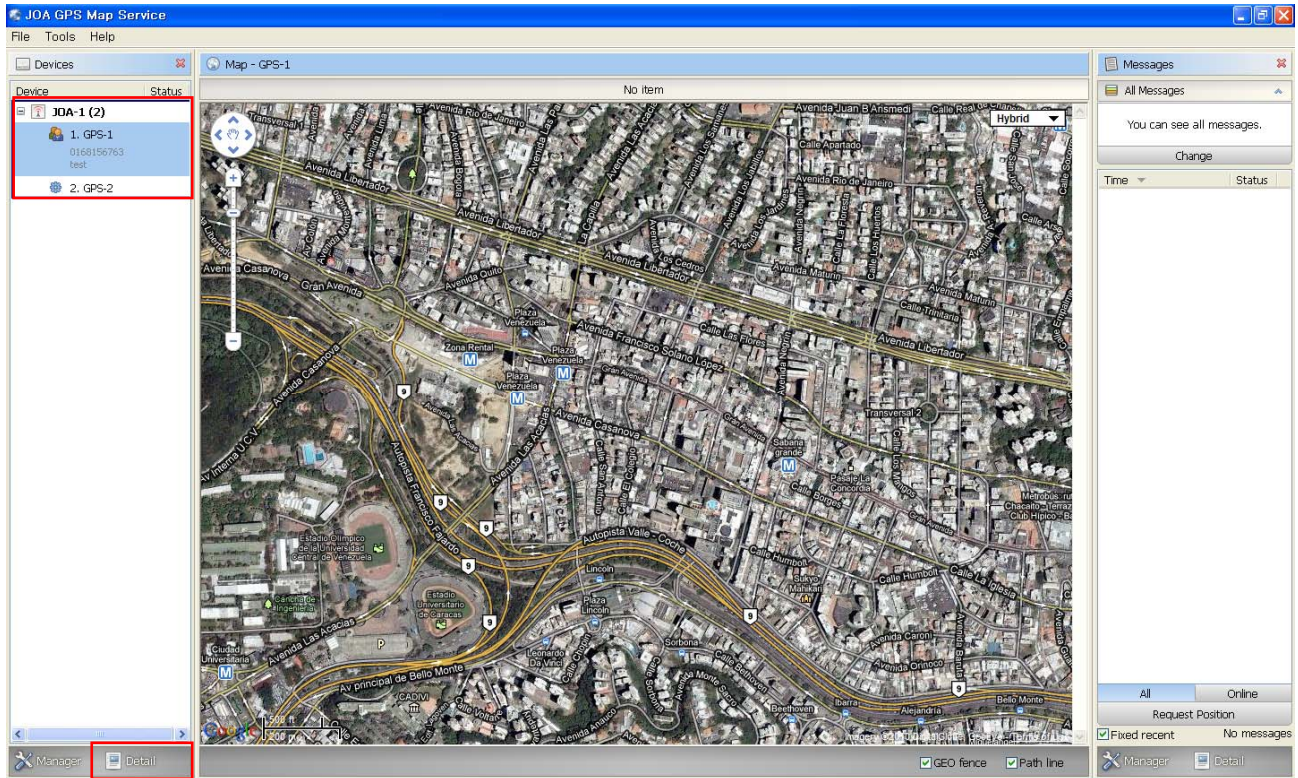
The connection is done correctly.

Make sure GPS Device status

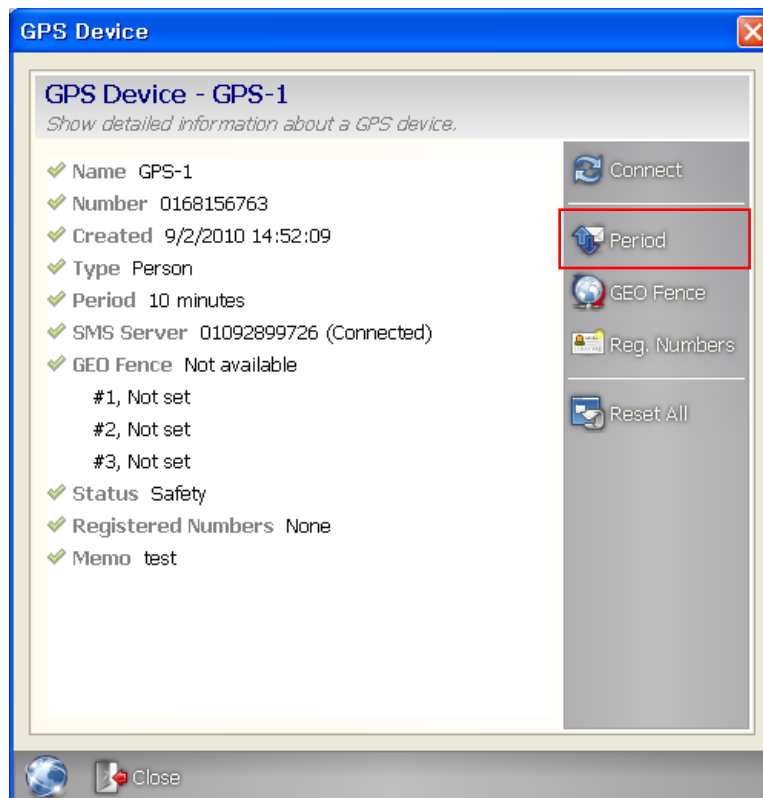


5-3. Changing Period

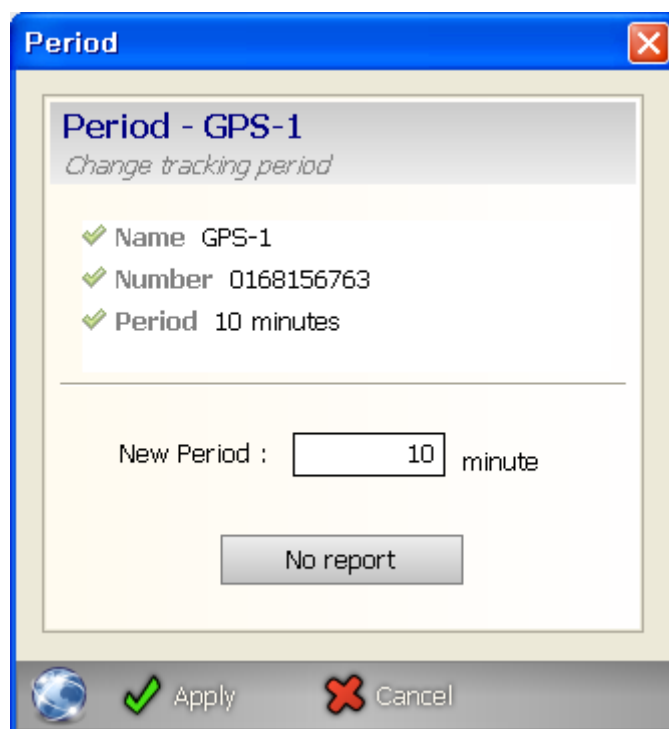
Select GPS Device that you want to change the tracking period.



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*.

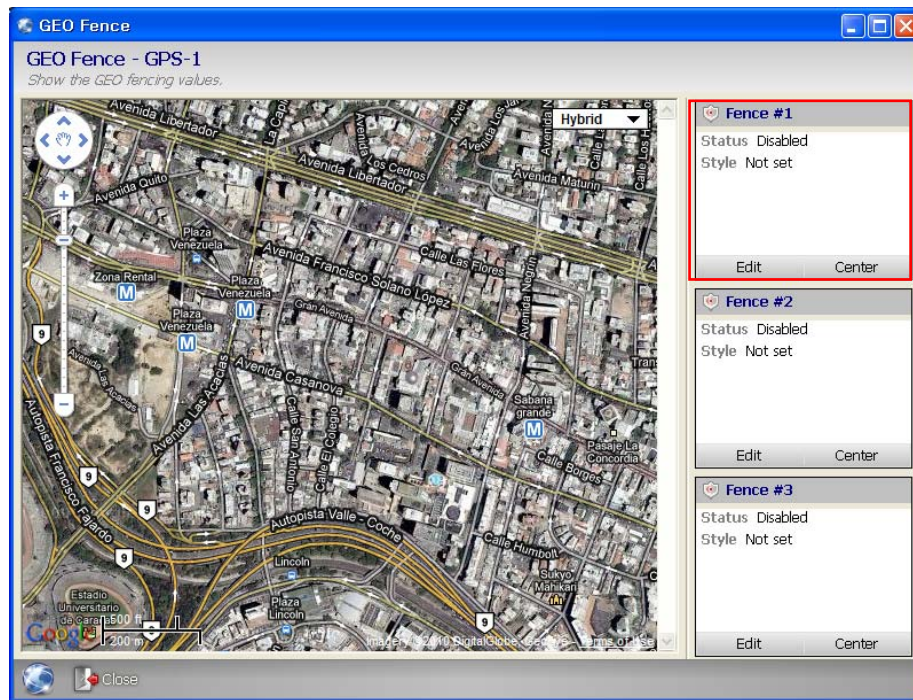


The screenshot shows a Windows-style dialog box titled "Period" with a close button (X) in the top right corner. The main content area has a header "Period - GPS-1" and a subtitle "Change tracking period". Below this, there is a list of three items, each preceded by a green checkmark: "Name GPS-1", "Number 0168156763", and "Period 10 minutes". A horizontal line separates this list from the "New Period" section, which contains a text input field with the value "10" and the label "minute". Below the input field is a button labeled "No report". At the bottom of the dialog, there is a status bar with three icons: a globe, a green checkmark, and a red X. The globe icon is followed by the text "Apply", and the red X icon is followed by the text "Cancel".

5-4. Setting GEO Fence

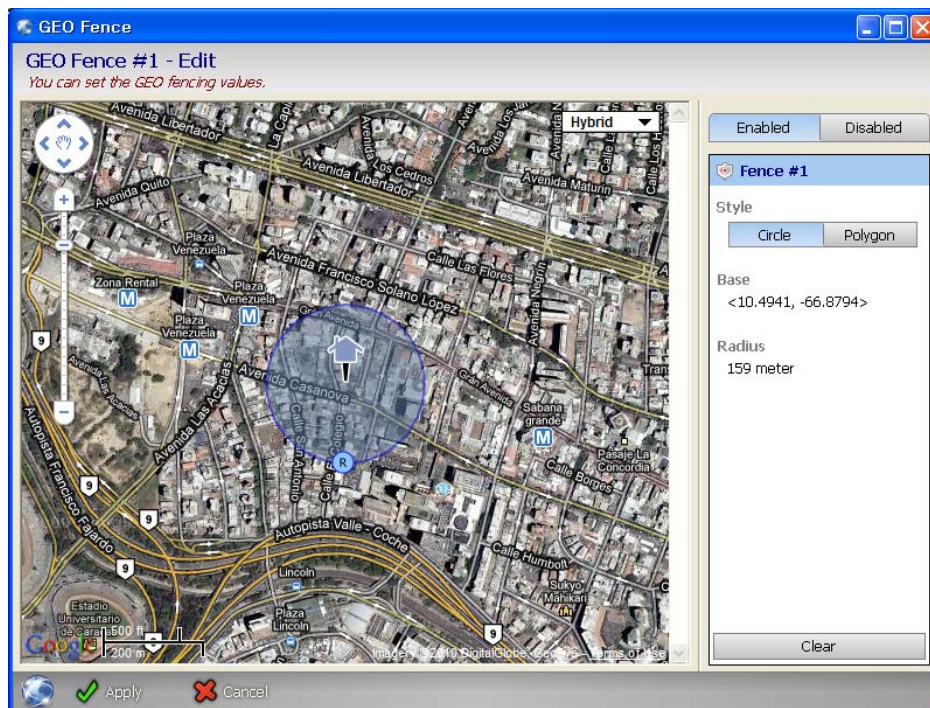
GEO Fence is another name of safety-zone. GPS Device sends SMS notice to the registered phone number of protector, whenever one get out of the *GEO Fence* or get in.

(Please refer to *Menu 5-5* for changing the period.)

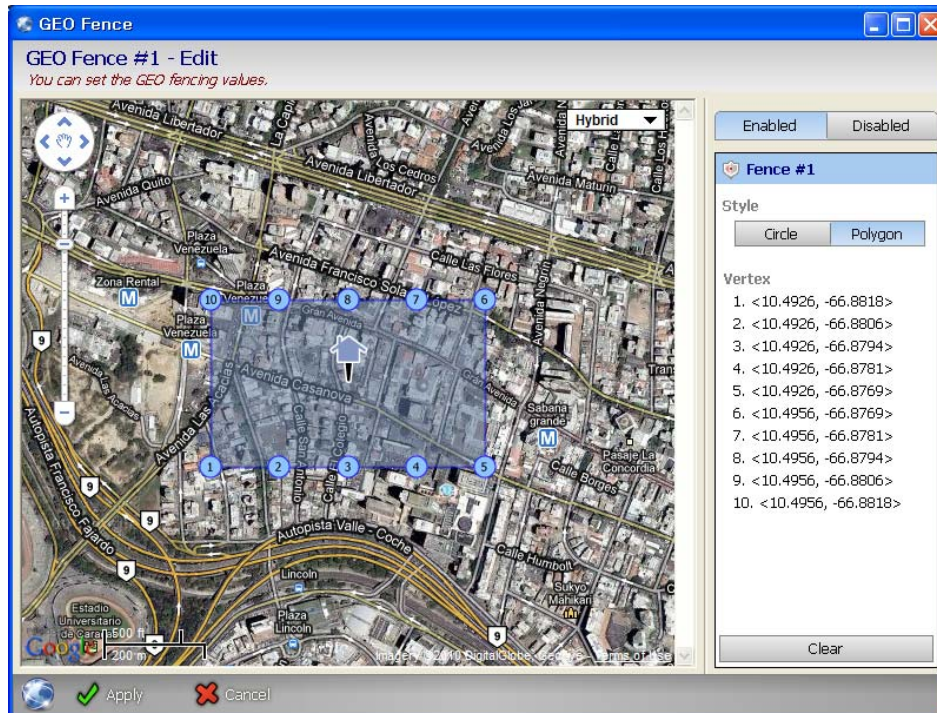


Enter *Edit* and select style.

-Circle Style-

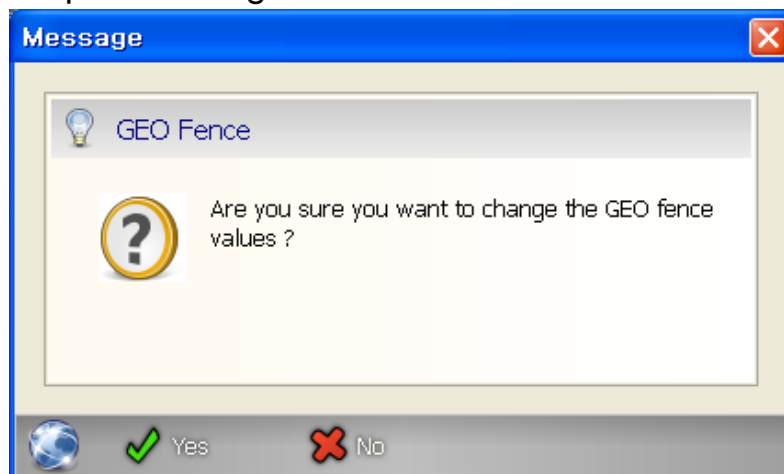


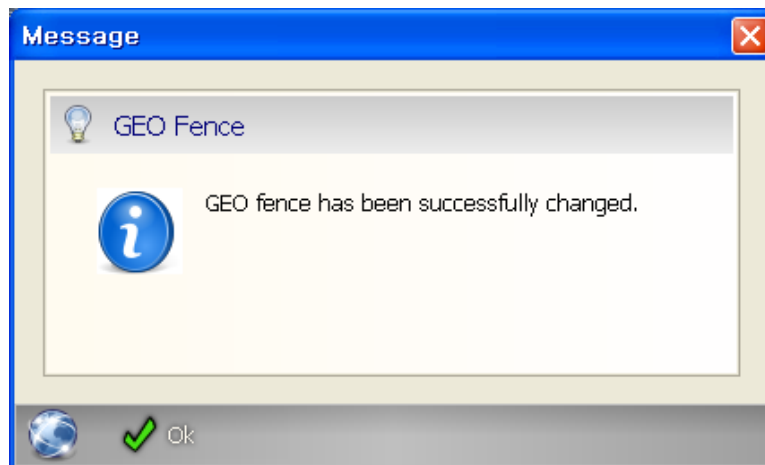
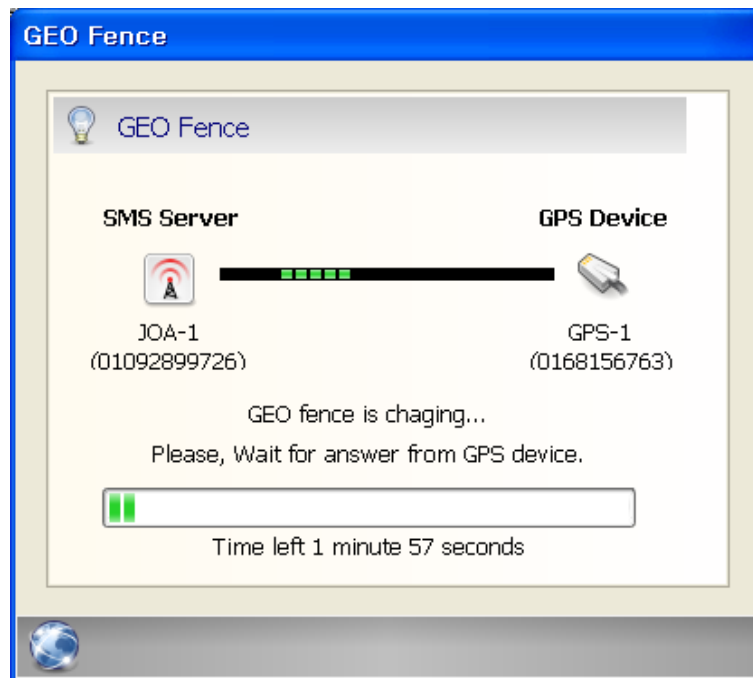
-Polygon Style-



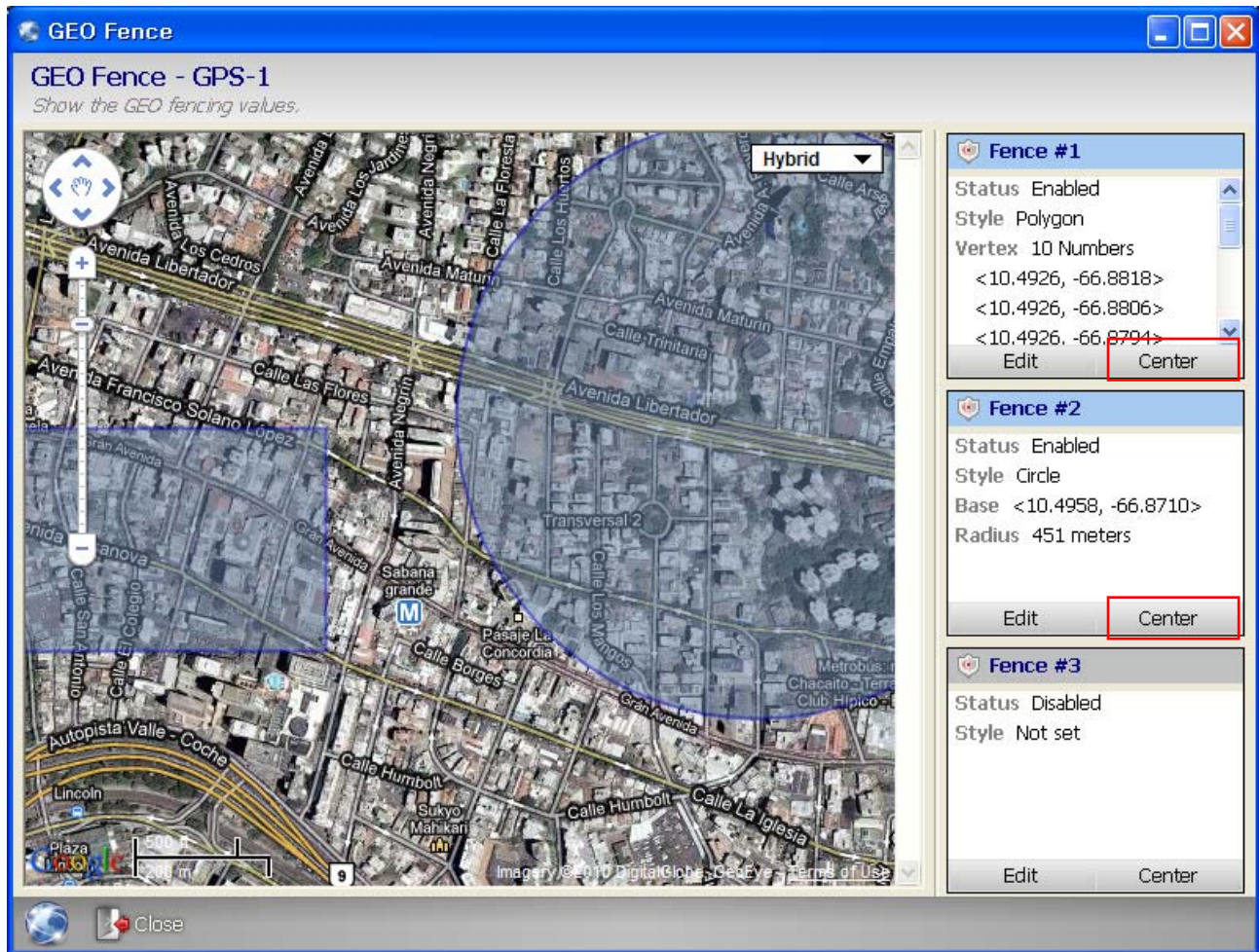
You can set the limits of *GEO Fence* by dragging icons. To apply *GEO Fence*, you have to click *Enabled*, if not click *Disabled*.

Click *Apply* to complete setting.



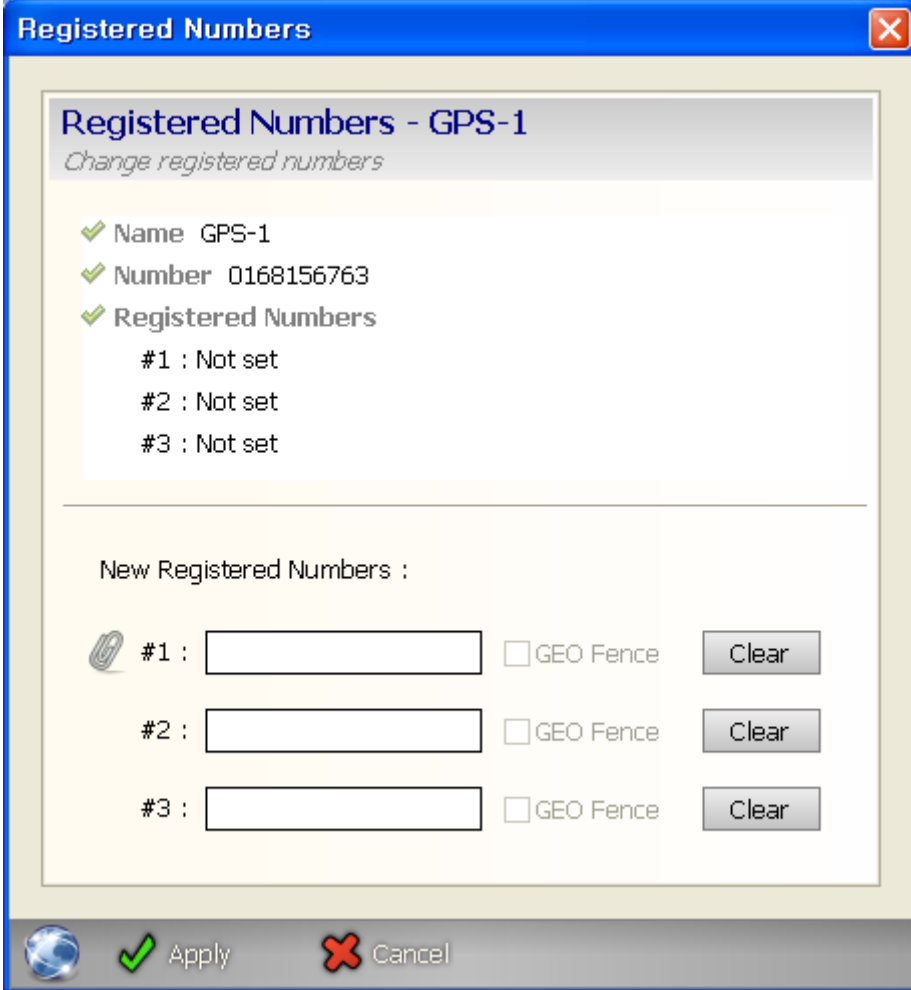


Make sure *GEO Fence* status.



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

5-5. Registering the phone number of protector



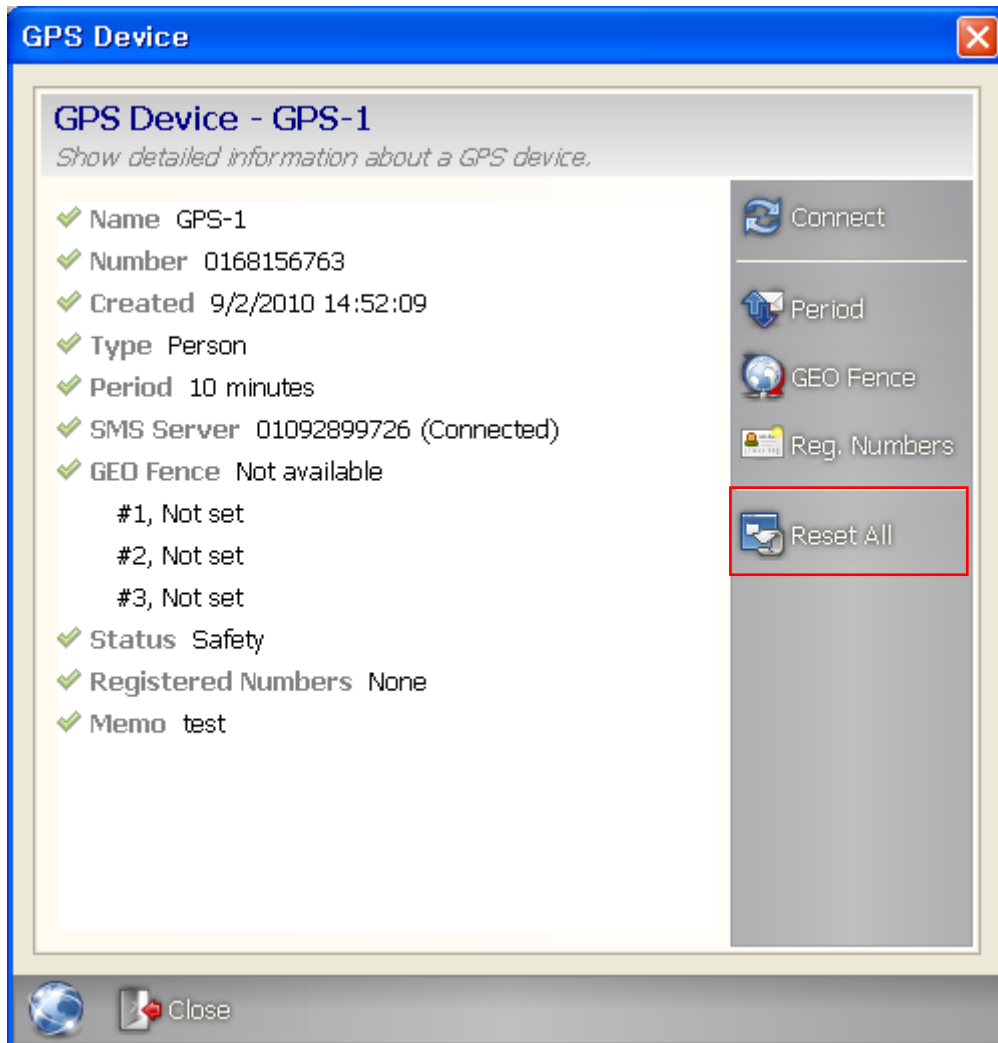
The screenshot shows a Windows-style dialog box titled "Registered Numbers" with a close button (X) in the top right corner. Inside the dialog, there is a sub-header "Registered Numbers - GPS-1" and a link "Change registered numbers". Below this, a list of registered numbers is shown with green checkmarks: "Name GPS-1", "Number 0168156763", and "Registered Numbers". Under "Registered Numbers", three entries are listed: "#1 : Not set", "#2 : Not set", and "#3 : Not set". A horizontal line separates this from the "New Registered Numbers :" section. This section contains three rows, each with a paperclip icon, a label (#1, #2, #3), a text input field, a checkbox labeled "GEO Fence", and a "Clear" button. At the bottom of the dialog, there are three buttons: a globe icon, a green checkmark labeled "Apply", and a red X labeled "Cancel".

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

Click *Apply* to complete.

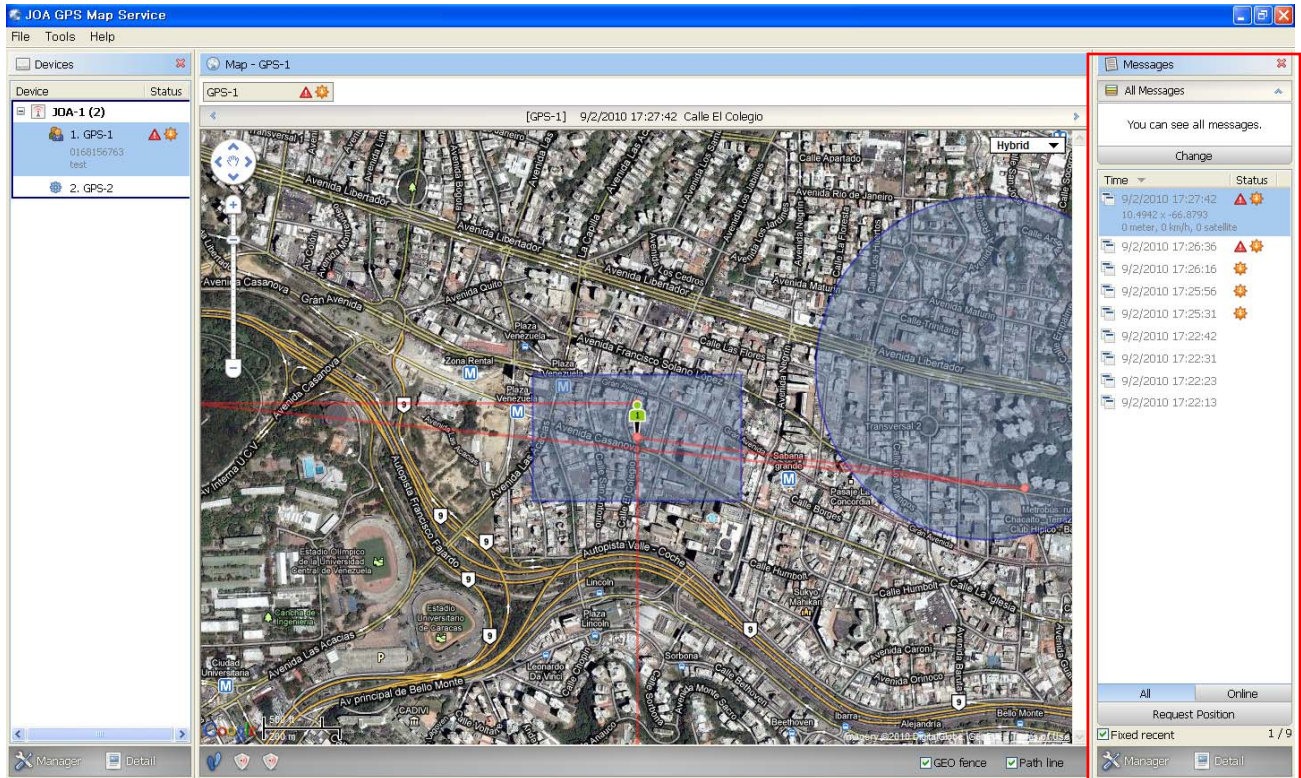
5-6. Resetting GPS Device

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

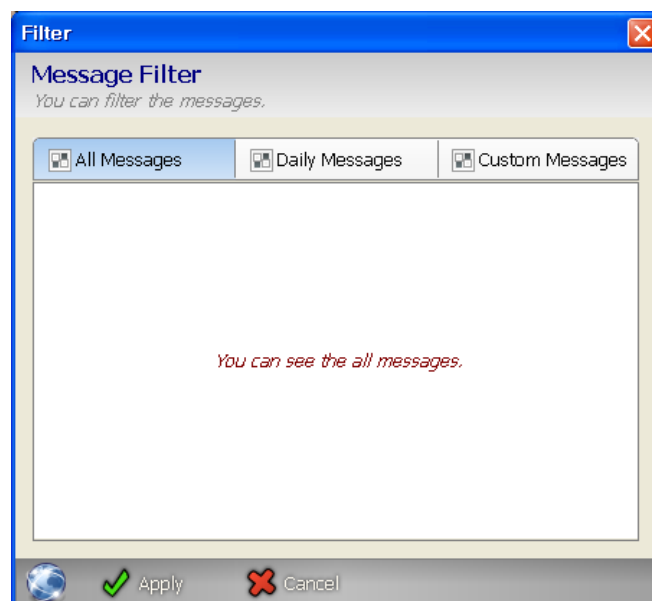
On the right side of map, position data messages appear.



6-1. Message Filter

You can filter the messages.

-All Messages-



-Daily Messages-

Filter [X]

Message Filter
You can filter the messages.

☐ All Messages ☒ Daily Messages ☐ Custom Messages

You can select a date to see the message.

Thursday, September 02, 2010

< September, 2010 >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

Today

[Globe] [Checkmark] Apply [X] Cancel

-Custom Messages-

Filter [X]

Message Filter
You can filter the messages.

☐ All Messages ☐ Daily Messages ☒ Custom Messages

You can set the time range.

Reference Time :

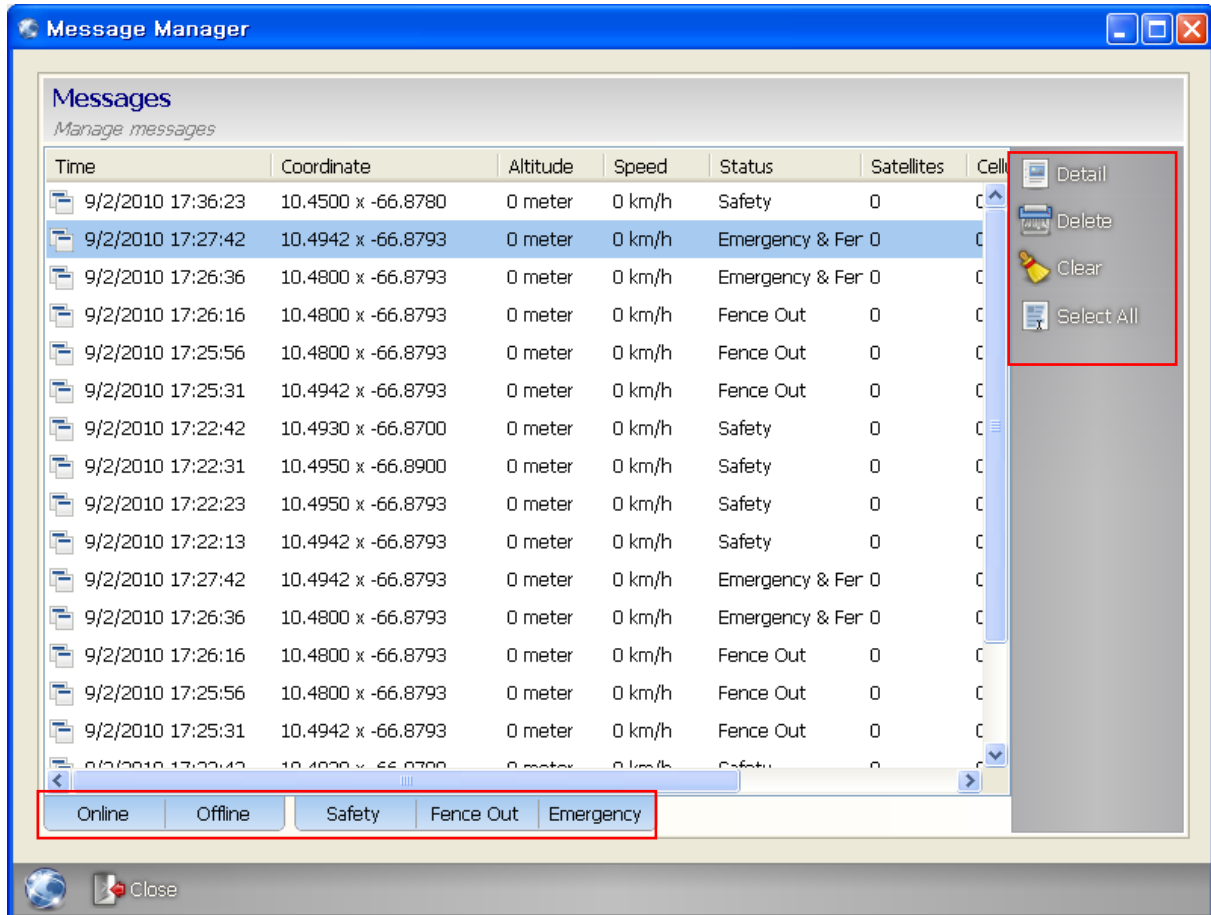
Until 1 Day Ago

[Up/Down] Day [Up/Down] Hour

[Globe] [Checkmark] Apply [X] Cancel

6-2. Message Manager

You can control the position data messages.



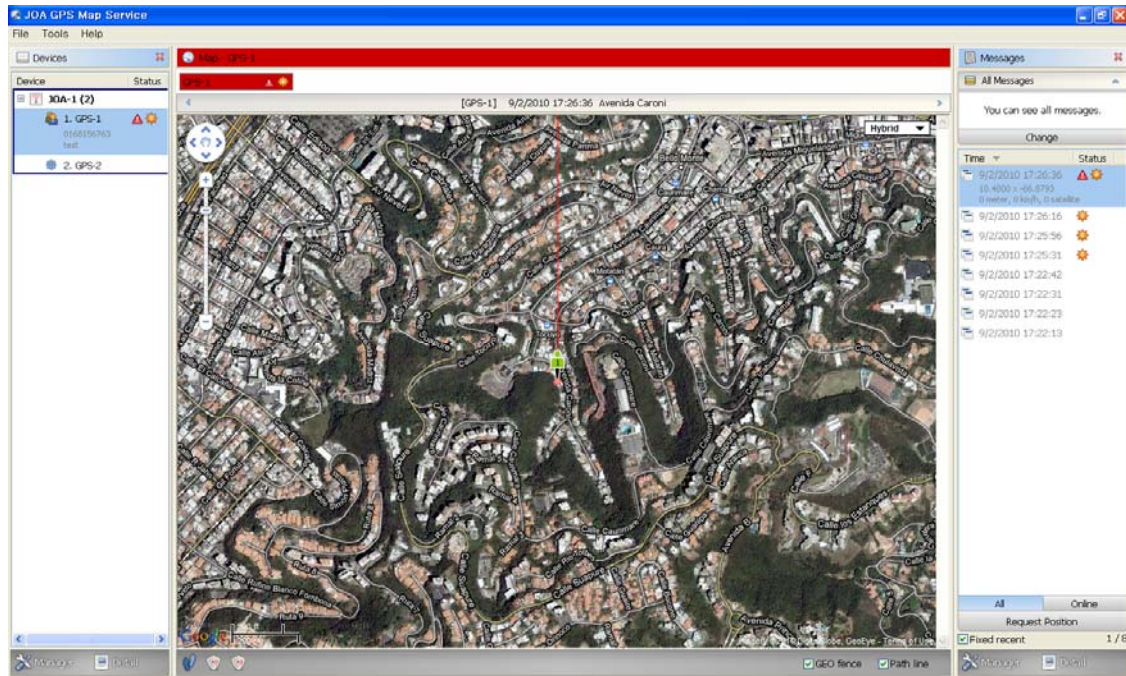
Click *Detail* to get the detailed information.

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

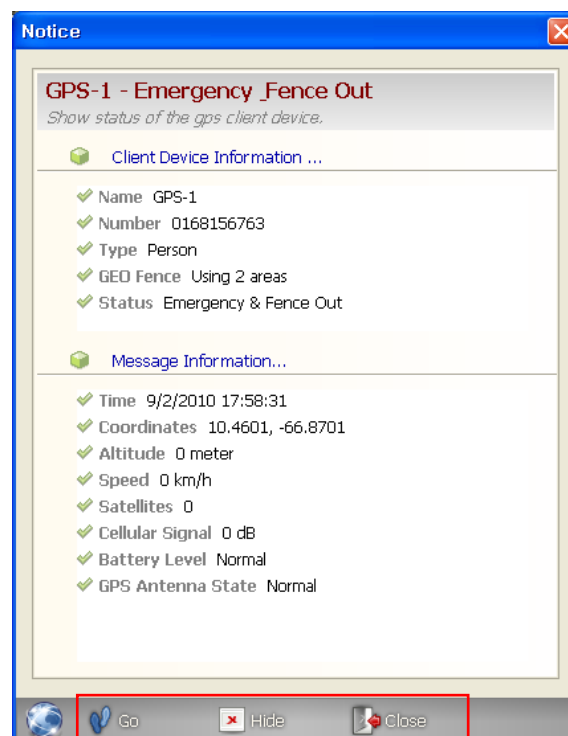
In emergency situation, a warning light blinks 3 times.




🔴 Emergency

⚠ Fence out

Click GPS-1 ⚠ 🔴 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>

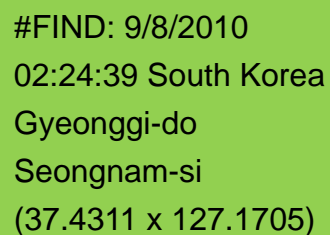


#FIND00011112222

7-3. Receive the message from SMS Server.

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

<Receive>



#FIND: 9/8/2010
02:24:39 South Korea
Gyeonggi-do
Seongnam-si
(37.4311 x 127.1705)

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.