

## Short Message Service

Via a GSM/GPRS modem, GV-system lets you send SMS (Short Message Service) messages when an alert condition happens. The modem can be installed at either a separate server, or the same computer/server equipped with GV-system. This chapter introduces how to manage a GSM/GPRS modem with the GV-developed SMS Server program, and how to configure the main system to send out SMS alerts.

### Installing SMS Server

To install the SMS Server application, follow these steps:

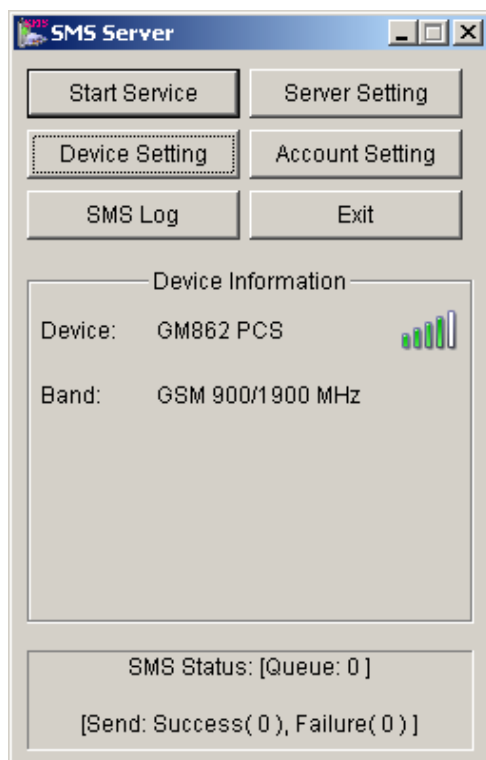
1. Insert the installation CD to the PC connecting to a GSM/GPRS modem. It will automatically run and pop up a window.
2. Select the item of Install Version 7.0 system.
3. Click SMS Server in Install Program 2<sup>nd</sup> menu. Refer to Figure 1-15 on page 15.
4. Follow the on-screen instructions.

### SMS Server Setup

Before starting the SMS service, you must complete the following three settings: (1) Device Settings, (2) Server Settings, and (3) Account Settings.

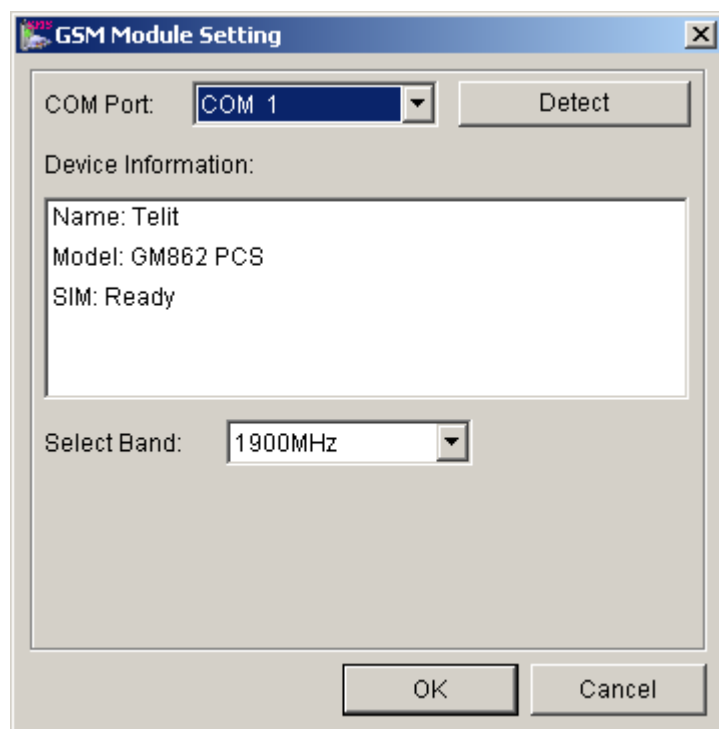
## Device Settings

1. Run the SMS Server program from the Start menu. The following window appears.



**Figure 12-1** The SMS Server Window

2. Click the Device Setting tab, and then select GSM Module. The following window appears.



**Figure 12-2** GSM Module Setting

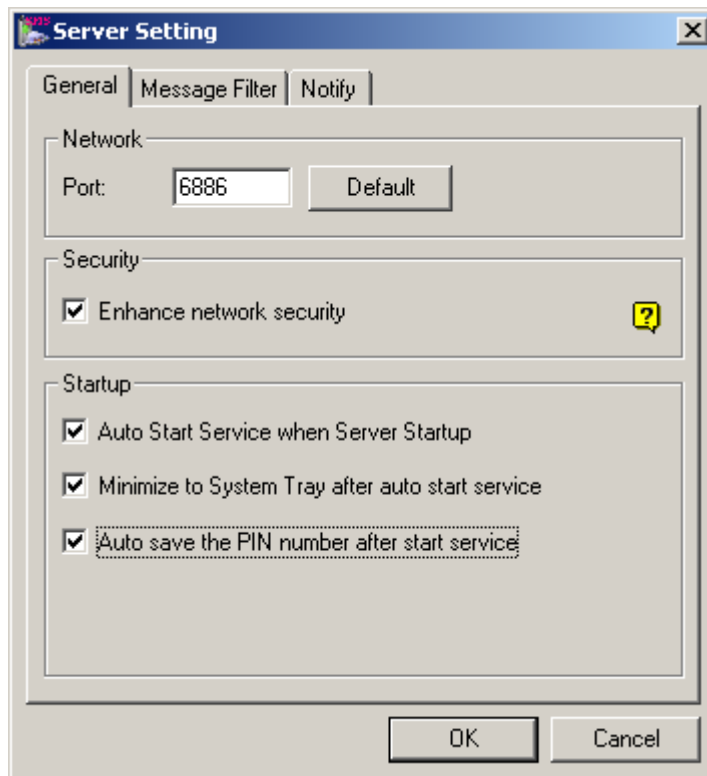
3. Select the COM port connecting to a GSM/GPRS modem.
4. Click the Detect tab to detect the modem.
  - If the connection between the modem and the computer is established, the message will show in the Device Information field: *Name: (Manufacturer), Module: xxx, SIM Ready.*
  - If the connection fails, the display will be shown as: *No usable device in COM xxx.*
5. If you are using a tri-band modem, select 1900 or 1800 MHz from the drop-down list of Select Band.
6. Click OK to apply above settings.

## Server Settings

Click the Server Setting button in Figure 12-1 to display the following Server Setting dialog box.

There are three major tabs in the dialog box: (1) General, (2) Message Filter, and (3) Notify

### [General]



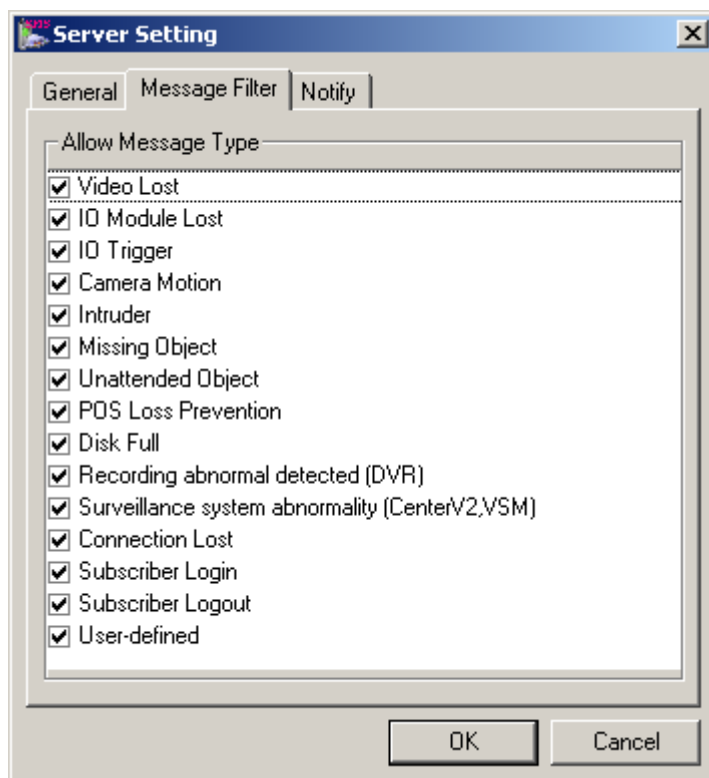
**Figure 12-3** Server Setting-General

**[Network]** Define the port of the SMS server, or leave it as default.

**[Security]** Enable to apply enhanced Internet security. Please notice when the feature is enabled, the subscribers using earlier version than 7.0 cannot access the SMS server any more.

**[Startup]**

- **Auto Start Service when Sever Startup:** Automatically starts SMS services when the program starts.
- **Minimize to System Tray when auto start service:** Minimizes SMS Server to system tray when it starts.
- **Auto save the PIN number after start service:** Automatically saves the PIN number when SMS services start.

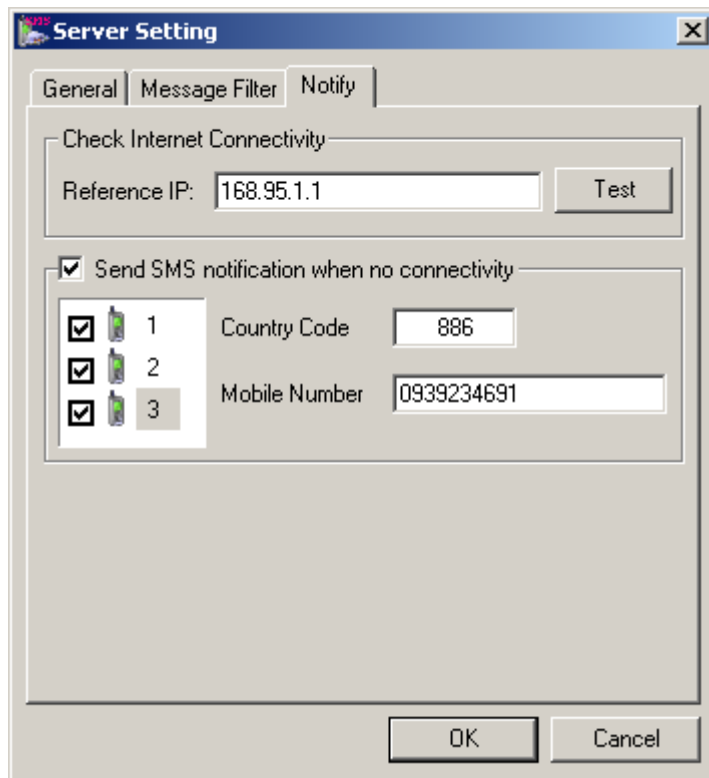
**[Message Filter]**

**Figure 12-4** Server Setting-Message Filter

Check the desired alert conditions to send SMS messages.

The **user-defined** condition refers to the SMS messages sent manually in Center V2 and VSM.

Refer to *Sending SMS* in Chapter 9 (Center V2) on page 208 and in Chapter 11 (VSM) on page 221.

**[Notify]**

**Figure 12-5** Server Setting-Notify

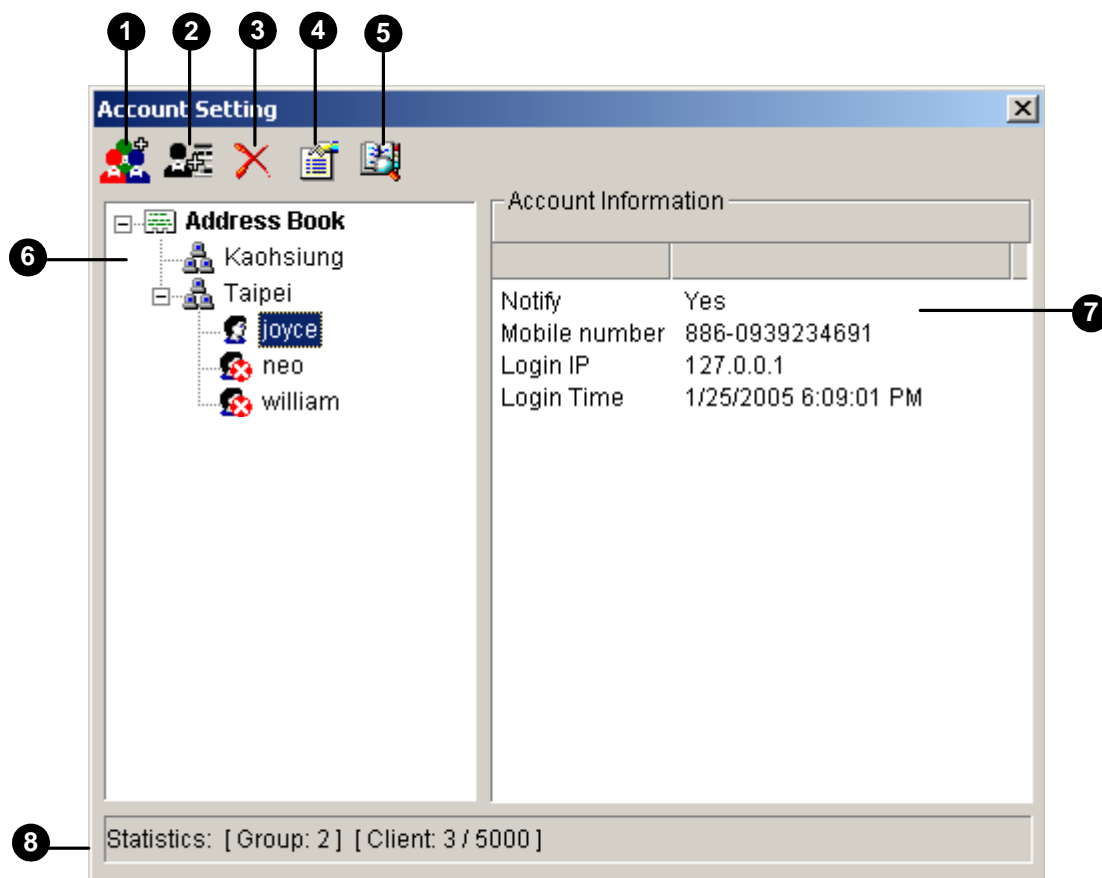
**[Check Internet Connectivity]** Assign any available IP address and click the Test tab to know if your SMS server can access Internet.

**[Send SMS notification when no connectivity]** Sends SMS to the defined mobile numbers when the SMS server cannot access Internet.

- **Mobile Icon:** Check the icon and define the number for the SMS notification. Up to three recipients can receive the SMS simultaneously.

## Account Settings

Click the Account Setting tab in Figure 12-1 to display the following window.



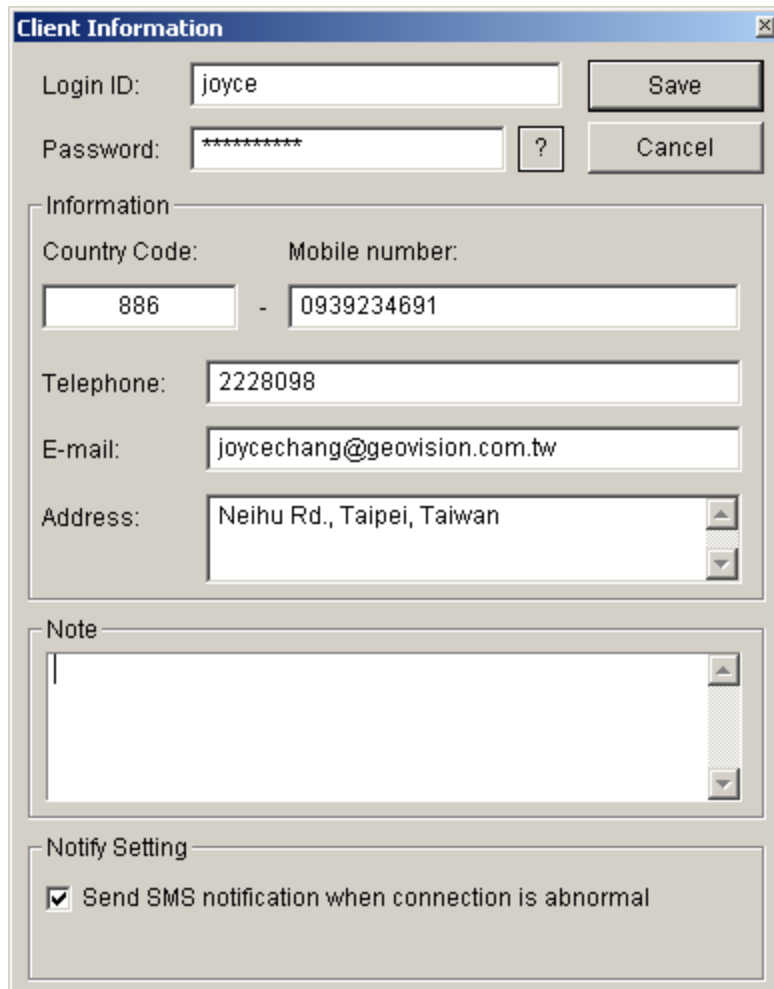
**Figure 12-6** Account Setting

The controls in the account setting window:

No.	Name	Description
1	Add A Group	Click to create a group.
2	Add A Client	Click to create a client.
3	Delete A Group/Client	Click to delete a created group or client.
4	View/Edit A Client	Highlight one client and click the button to view or edit its information.
5	Find A Client	Click to search a client.
6	Address Book	Lists the created groups and clients.
7	Account Information	Displays the highlighted client's account information.
8	Statistics	Displays how many groups and clients created. The SMS server can serve up to <b>5000</b> clients at one time.

**To create a client:**

1. Click the Add A Client button. The Client Information dialog box appears.



The image shows a 'Client Information' dialog box with the following fields and sections:

- Login ID:** joyce
- Password:** \*\*\*\*\* (with a '?' button next to it)
- Buttons:** Save, Cancel
- Information section:**
  - Country Code:** 886
  - Mobile number:** 0939234691
  - Telephone:** 2228098
  - E-mail:** joycechang@geovision.com.tw
  - Address:** Neihu Rd., Taipei, Taiwan
- Note section:** A large empty text area for notes.
- Notify Setting section:**
  - ☒ Send SMS notification when connection is abnormal

**Figure 12-7** Client Information

2. Enter a login ID and password. Those will be the ID and password for the client to log in the SMS server. Relate to Figure 12-9.
3. In the Information section, enter the client's related information.
4. When the item in the Notify Setting section is enabled, the client will receive a SMS in the case of
  - Internet disconnection between the client and the SMS server, or
  - Improper program shutdown in the client

For this function, you must enter the client's country code and mobile number for the SMS alert.
5. Click Save for above settings.

## SMS Log


### Setting SMS Log

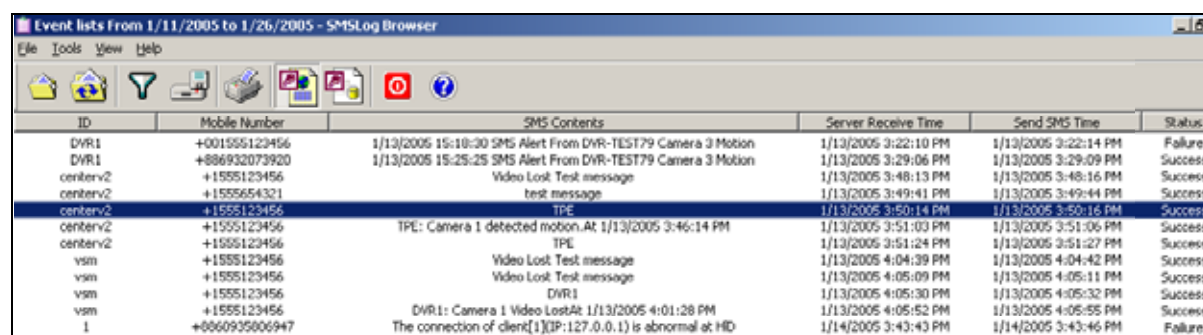
Click the SMS Log tab in the SMS Server window (Figure 12-1), and select SMSLog Setting to display the following dialog box. The settings are similar to *Event Log Settings* in Figure 9-17 on page 202.

### Viewing SMS Log

Click the SMS Log tab in the SMS Server window (Figure 12-1), and select View SMSLog to display the SMS Log Browser. The browser is the same as *Event Log Browser* in Figure 9-14 on page 202, except the following two unique features:


### SMS Event Log

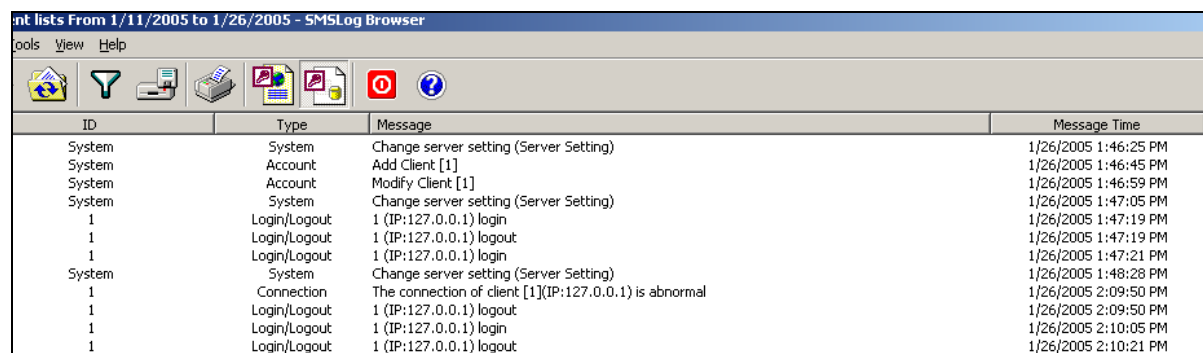
Clicking  the SMS Event Log button on the toolbar, you can monitor senders (ID), mobile numbers, text messages, sent and failed SMS. **This can be beneficial as you may charge your clients by the amount of SMS messages sent.**



ID	Mobile Number	SMS Contents	Server Receive Time	Send SMS Time	Status
DVR1	+001555123456	1/13/2005 15:10:30 SMS Alert From DVR-TEST79 Camera 3 Motion	1/13/2005 3:22:10 PM	1/13/2005 3:22:14 PM	Failure
DVR1	+886932073920	1/13/2005 15:25:25 SMS Alert From DVR-TEST79 Camera 3 Motion	1/13/2005 3:29:06 PM	1/13/2005 3:29:09 PM	Success
centerv2	+1555123456	Video Lost Test message	1/13/2005 3:48:13 PM	1/13/2005 3:48:16 PM	Success
centerv2	+1555654321	test message	1/13/2005 3:49:41 PM	1/13/2005 3:49:44 PM	Success
centerv2	+1555123456	TPE	1/13/2005 3:50:14 PM	1/13/2005 3:50:16 PM	Success
centerv2	+1555123456	TPE: Camera 1 detected motion At 1/13/2005 3:46:14 PM	1/13/2005 3:51:03 PM	1/13/2005 3:51:06 PM	Success
centerv2	+1555123456	TPE	1/13/2005 3:51:24 PM	1/13/2005 3:51:27 PM	Success
vsm	+1555123456	Video Lost Test message	1/13/2005 4:04:39 PM	1/13/2005 4:04:42 PM	Success
vsm	+1555123456	Video Lost Test message	1/13/2005 4:05:09 PM	1/13/2005 4:05:11 PM	Success
vsm	+1555123456	DVR1	1/13/2005 4:05:30 PM	1/13/2005 4:05:32 PM	Success
vsm	+1555123456	DVR1: Camera 1 Video Lost At 1/13/2005 4:01:28 PM	1/13/2005 4:05:52 PM	1/13/2005 4:05:55 PM	Success
1	+8860935806947	The connection of client[1](IP:127.0.0.1) is abnormal at HD	1/14/2005 3:43:43 PM	1/14/2005 3:43:46 PM	Failure

### System Event Log

Clicking  the System Event Log button on the toolbar, you can monitor the server activities, client login and logout, and connection problems.



ID	Type	Message	Message Time
System	System	Change server setting (Server Setting)	1/26/2005 1:46:25 PM
System	Account	Add Client [1]	1/26/2005 1:46:45 PM
System	Account	Modify Client [1]	1/26/2005 1:46:59 PM
System	System	Change server setting (Server Setting)	1/26/2005 1:47:05 PM
1	Login/Logout	1 (IP:127.0.0.1) login	1/26/2005 1:47:19 PM
1	Login/Logout	1 (IP:127.0.0.1) logout	1/26/2005 1:47:19 PM
1	Login/Logout	1 (IP:127.0.0.1) login	1/26/2005 1:47:21 PM
System	System	Change server setting (Server Setting)	1/26/2005 1:48:28 PM
1	Connection	The connection of client [1](IP:127.0.0.1) is abnormal	1/26/2005 2:09:50 PM
1	Login/Logout	1 (IP:127.0.0.1) logout	1/26/2005 2:09:50 PM
1	Login/Logout	1 (IP:127.0.0.1) login	1/26/2005 2:10:05 PM
1	Login/Logout	1 (IP:127.0.0.1) logout	1/26/2005 2:10:21 PM



## Password Security

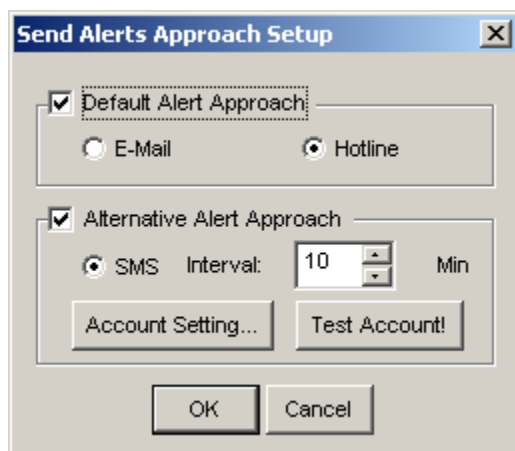
To prevent unauthorized users from changing your settings, set up an administrator password. The following shows you how to apply the password security.

1. Click the Exit button in the lower-right corner, and then select Change Password to set a password.
2. Click the Exit button, and select Logout Administrator to lock the SMS Server window.
3. When you want to log in, click the Exit button and select Login as Administrator. A valid password is required.

## Connecting GV-system to SMS Server

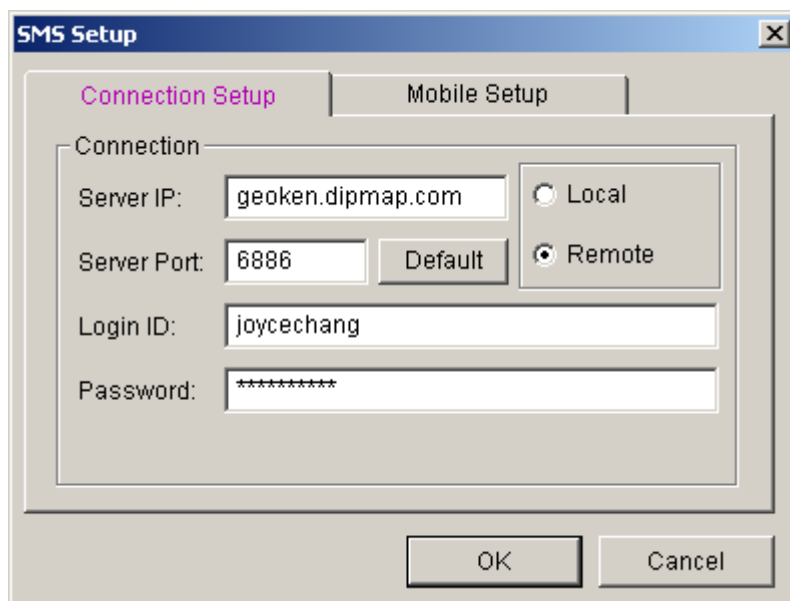
To connect the GV-system to the SMS server, follow these steps:

1. Click the Configure button, and then select System Configure to display the System Configure window.
2. In the Send Alerts Approach section, click the right arrow button of to display the following window.



**Figure 12-8** Send Alerts Approach Setup

3. Check the Alternative Alert Approach item to enable other options.
4. Specify the Interval of two sent-out messages. Any alert condition will be ignored by the system during the interval.
5. Click the Account Setting button to display the following window.



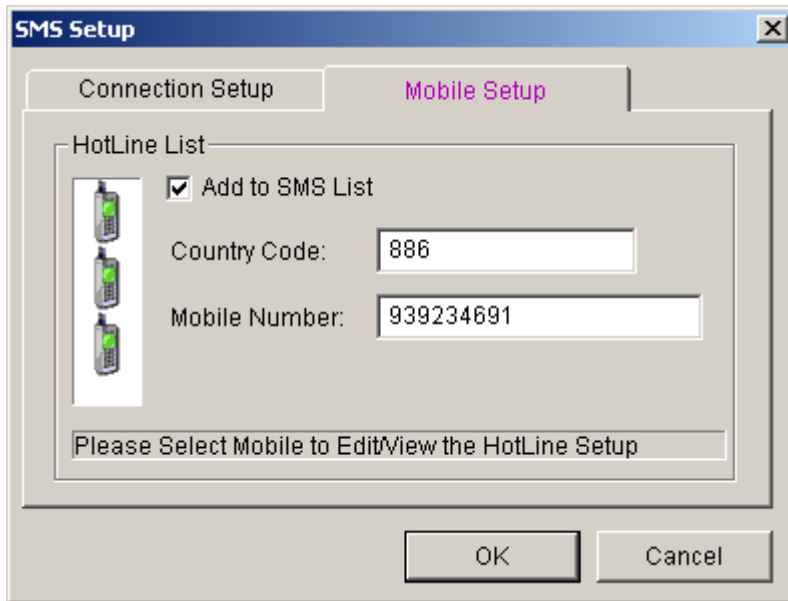
**Figure 12-9** SMS Setup- Connection Setup

- **Server IP:** Enter the IP address of the SMS server.
  - **Server Port:** Enter the server port of the SMS server, or keep it as default.
  - **Login ID & Password:** Enter a valid ID and password registered in the SMS server. Relate to Figure 12-7.
  - **Local:** If the GSM/GPRS modem is installed at the same server with the GV system, select this item
  - **Remote:** If the GSM/GPRS modem is installed at a separate server, select this item.
6. Click OK to apply above settings.
  7. Click the Test Account button in Figure 12-8. If the connection of both devices is established, the message will appear: *Login SMS Server OK!* If the connection fails, the line will appear: *Connect to SMS Server Fail.*

## Setting Mobile Numbers

The main system allows you to configure three mobile phone numbers for the SMS service. When an alert condition happens, the SMS messages will be sent out to the three assigned mobile phones simultaneously.

1. Open the Send Alerts Approach Setup window. Refer to Figure 12-8.
2. Click the Account Setting button. This displays the SMS Setup window. Refer to Figure 12-9.
3. Click the Mobile Setup tab in the upper of the window. This displays the following dialog box.



**Figure 12-10** SMS Setup- Mobile Setup

4. Click one mobile phone icon, and then check the Add to SMS List item for the mobile phone setup.
5. Enter Country Code and Mobile Number.
6. Click other mobile phone icons, and follow step 4 and 5 to set up the rest of two mobile phone numbers separately.
7. Click OK to apply above settings.

**Note:** To configure an alert condition of sending out SMS messages, refer to *Send Event Alerts* on page 24.

