

## 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 Surveillance System Software CD to the PC connected to a GSM/GPRS modem. It will run automatically, and a window appears.
2. Select the **Install V 8.0.0.0 System** item.
3. Click **SMS Server**, and follow the on-screen instructions.

## The SMS Server Window

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



**Figure 10-1** The SMS Server Window

The controls in the SMS Server window:

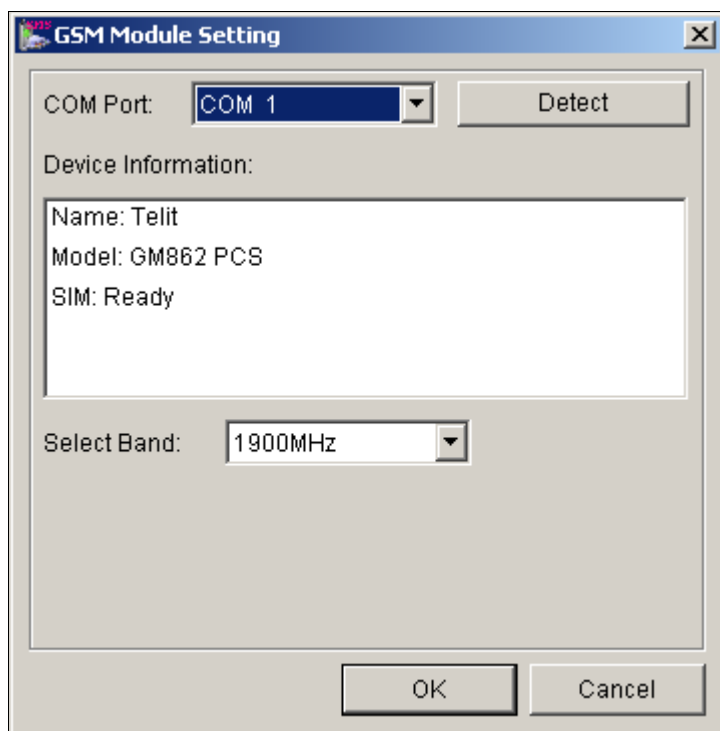
No.	Name	Description
1	Start/Stop Service	Starts or stops the SMS Server.
2	SMS Log Setting	Sets up the SMS Log.
3	Account Setting	Creates and edits accounts.
4	Server Setting	Sets up the SMS Server.
5	Device Setting	Sets up the GSM/GPRS modem.
6	Exit	Logs out administrator, changes password or exits the SMS server.

## SMS Server Setup

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

### Device Settings

1. Click the **Device Setting** button (No. 5, Figure 10-1), and then select **GSM Module**. The following dialog box appears.



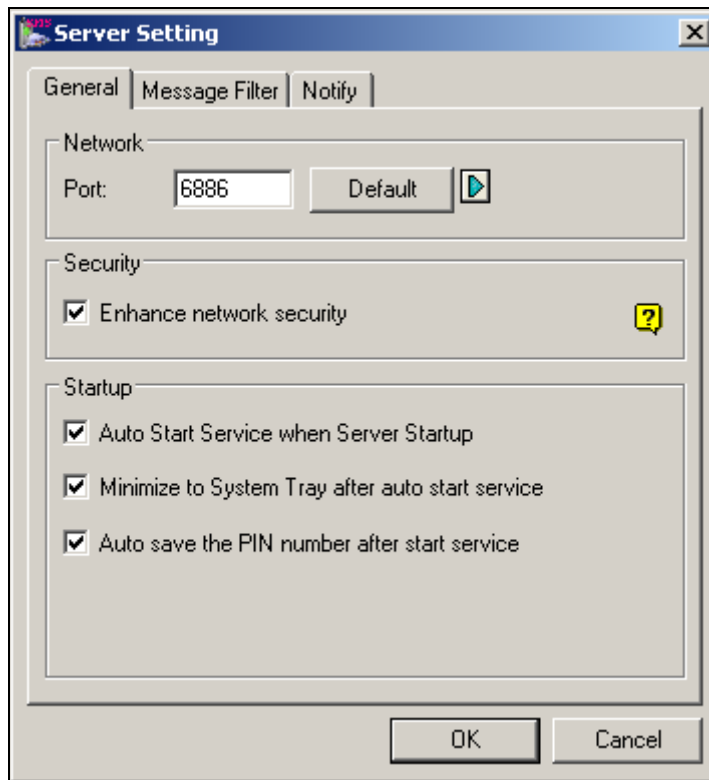
**Figure 10-2** GSM Module Setting

2. Select the **COM port** connecting to a GSM/GPRS modem.
3. Click the **Detect** button 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.*
4. If you are using a tri-band modem, select **1900** or **1800 MHz** from the drop-down list of Select Band.
5. Click **OK** to apply above settings.

## Server Settings

Click the **Server Setting** button (No. 4, Figure 10-1) 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 10-3** Server Setting-General

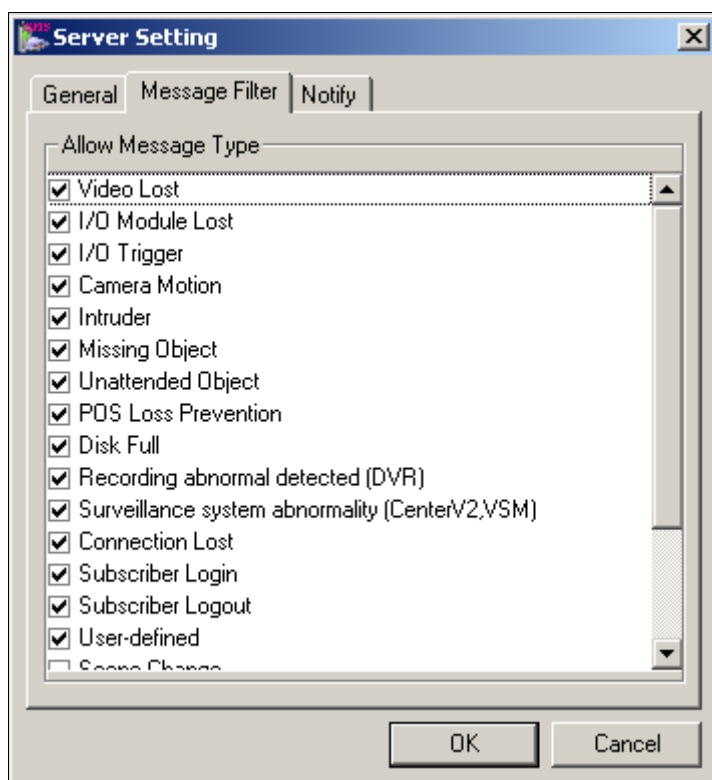
**[Network]** Define the port of the SMS Server, or leave it as default. To use UPnP for automatic port configuration to your router, click the **Arrow** button. For details, see *UPnP Settings* in Chapter 6.

**[Security]** Enable to apply enhanced Internet security. Please notice when the feature is enabled, the subscribers using earlier version than 8.0 cannot access the SMS Server anymore.

### [Startup]

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

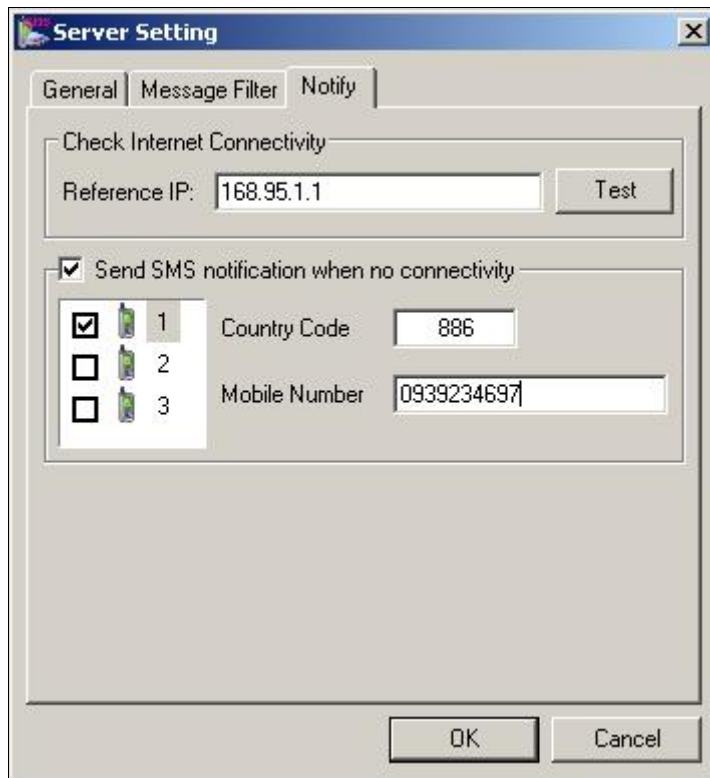
### [Message Filter]



**Figure 10-4** 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. See *Sending SMS* in Chapter 1 and Chapter 3 in the *CMS User's Manual*.

**[Notify]**

*Figure 10-5* Server Setting-Notify

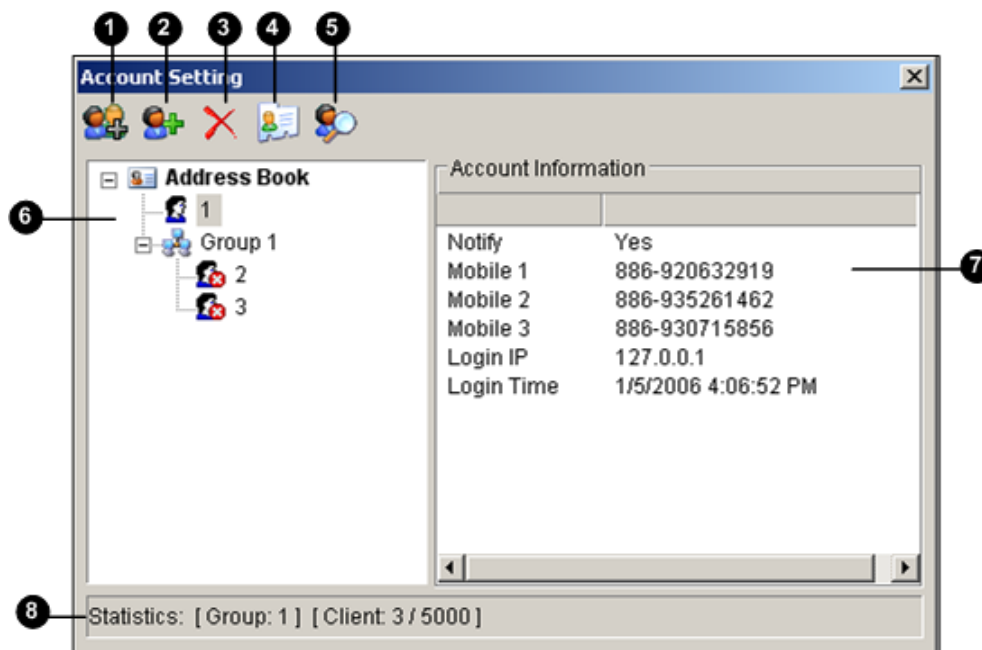
**[Check Internet Connectivity]** Assign any available IP address and click the **Test** button to know if your SMS Server can access Internet.

**[Send SMS notification when no connectivity]** Sends SMS notification to the three 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** button (No.3, Figure 10-1) to display the following window.



**Figure 10-6** Account Setting

The controls in the Account Setting window:

No.	Name	Description
1	Add A Group	Creates a group.
2	Add A Client	Creates a client.
3	Delete A Group/Client	Deletes 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	Searches a client.
6	Address Book	Lists the created groups and clients.
7	Account Information	Displays the highlighted client's account information.
8	Statistics	Displays the number of created groups and clients. The SMS Server can serve up to 5000 clients at one time.

## Creating a client:

1. Click the Add A Client button (No. 2, Figure 10-6). This dialog box appears.

**Client Information**

Login ID:

Password:

Information

No.	Country Code	Mobile Number
1	886	22318098
2	886	28759603
3	886	9354231

Telephone:

FAX:

E-mail:

Address:

Note

Notify Setting

Send SMS notification to the client's network administrators when connection is abnormal. (Set up three mobile numbers in above Information section)

Send SMS notification to the client's operators when connection is abnormal.

**Figure 10-7** Client Information

2. Type a login ID and password. They will be the ID and password for the client to log in the SMS Server. Refer to Figure 10-11.
3. In the Information section, type the client's related information.  
You can specify three mobile numbers of the client's network administrators for SMS notification.
4. In the Notify Setting section, you can send a SMS to the client in the case of:
  - Internet disconnection between the client and the SMS Server, or
  - Improper program shutdown in the client.

The recipients can be:

  - The client's network administrators: define three mobile numbers in above Information section.
  - The client's operators: See *Setting Mobile Numbers*, later in this chapter. For the users of Dispatch Server and Vital Sign Monitor, refer to the *CMS User's Manual*. Clicking the **Question** mark can view the specified mobile numbers at the client site.
5. Click **Save** for above settings.



## Disabling a client:

You can disable subscription services to an individual client when subscription expires.

In the Account Settings window (Figure 10-6), right-click the desired client and then select **Disable**.

To restore the service, right-click the desired client and then select **Enable**.

## SMS Log


### Setting SMS Log

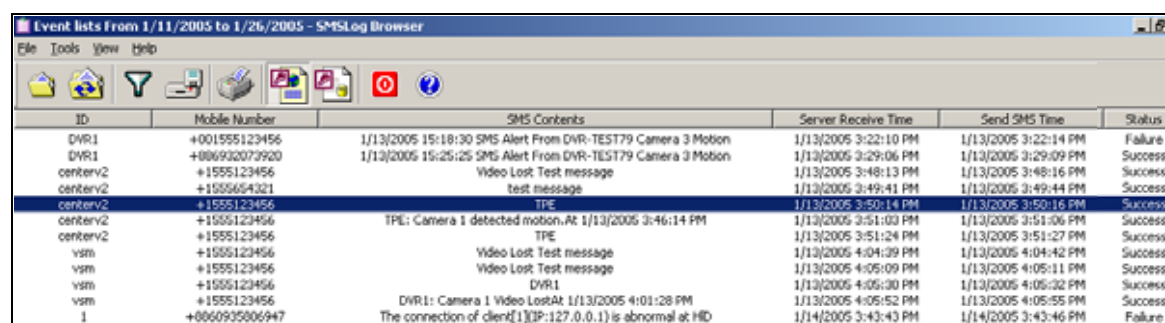
Click the **SMS Log Setting** button in the SMS Server window (No. 2, Figure 10-1), and select **SMSLog Setting** to display the following dialog box. The settings are similar to *Event Log Settings* in Figure 9-21 in Chapter 9.

### Viewing SMS Log

Click the **SMS Log Setting** button in the SMS Server window (No. 2, Figure 10-1), and select **View SMSLog** to display the SMS Log Browser. The browser is the same as *Event Log Browser* in Figure 9-18 in Chapter 9, 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 they sent.**



ID	Mobile Number	SMS Contents	Server Receive Time	Send SMS Time	Status
DVR1	+001555123456	1/13/2005 15:18:30 SMS Alert From DVR-TEST79 Camera 3 Motion	1/13/2005 3:22:10 PM	1/13/2005 3:22:14 PM	Failure
DVR1	+006932073920	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 LostAt 1/13/2005 4:01:28 PM	1/13/2005 4:05:52 PM	1/13/2005 4:05:55 PM	Success
1	+0060935006947	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

Figure 10-8

## 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 1:48:20 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

Figure 10-9

## Password Security

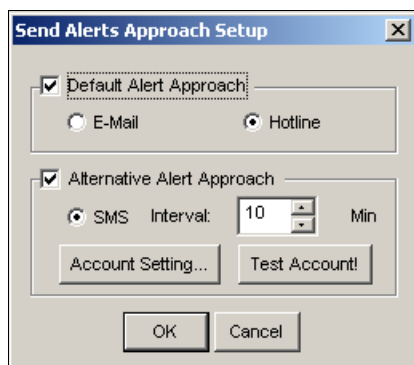
To prevent unauthorized users from changing your settings, set up an administrator password. To apply the password security, follow these steps:

1. Click the **Exit** button (No. 6, Figure 10-1), 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

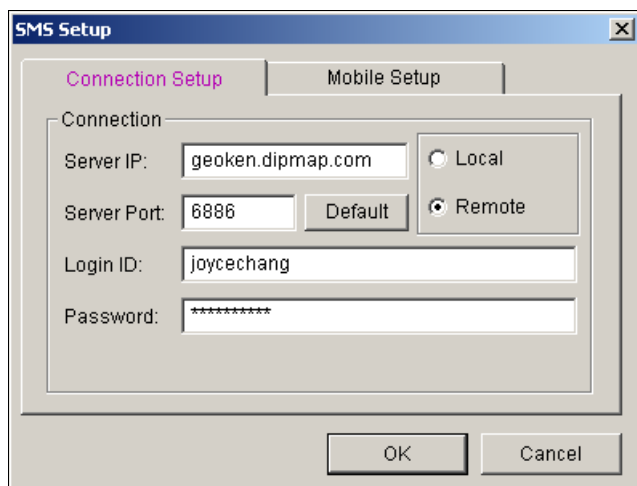
To connect the GV-System to the SMS Server, follow these steps:

1. In the Main System, 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 to display this dialog box.



**Figure 10-10** Send Alerts Approach Setup

3. Check the **Alternative Alert Approach** item to enable other options.
4. Specify the Interval of two sent-out messages. The Interval time can be set up to 1440 minutes. Any alert condition will be ignored by the system during the interval.
5. Click the **Account Setting** button to display the following window.



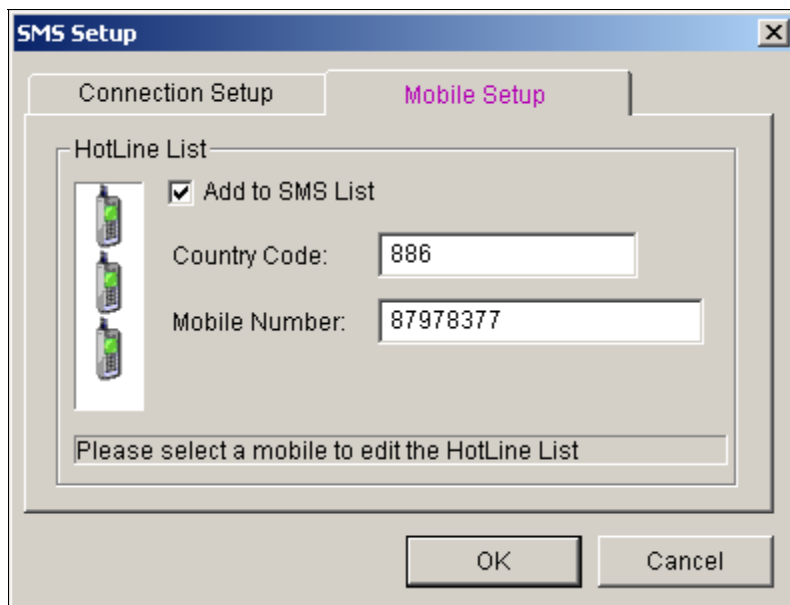
**Figure 10-11** SMS Setup- Connection Setup

- **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. See Figure 10-7.
  - **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 (Figure 10-10). If the connection of both devices is established, the message will appear: *Login SMS Server OK!* If the connection fails, the message 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** dialog box (see Figure 10-10).
2. Click the **Account Setting** button. This displays the SMS Setup dialog box (see Figure 10-11).
3. Click the **Mobile Setup** tab in the upper of the window. The following dialog box appears.



**Figure 10-12** 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. Type 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, see *Send Event Alerts* in Chapter 1 for details.