

Chapter 10

Short Message Service496

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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.

For supported GPRS models, see *Appendix F*.

10.1 Installing SMS Server

To install the SMS Server application, follow these steps:

1. Insert the Surveillance System Software DVD to the PC connected to a GSM/GPRS modem. It will run automatically, and a window appears.
2. Click **Install V 8.5.0.0 System**.
3. Click **SMS Server**, and follow the on-screen instructions.

10.2 The SMS Server Window

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

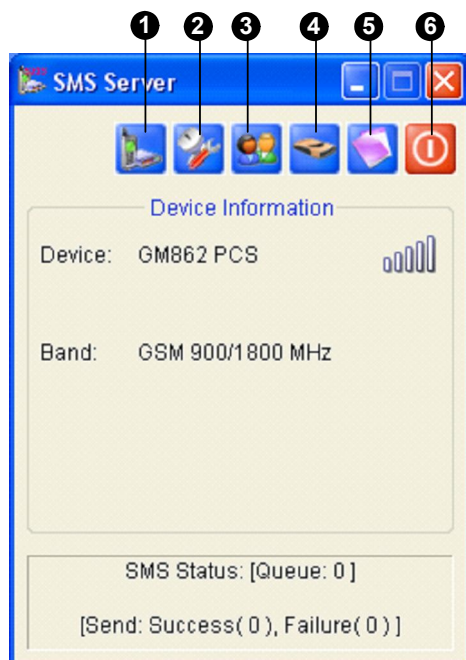


Figure 10-1 The SMS Server Window

The controls in the SMS Server window:

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

10.3 SMS Server Setup

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

10.3.1 Device Settings

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

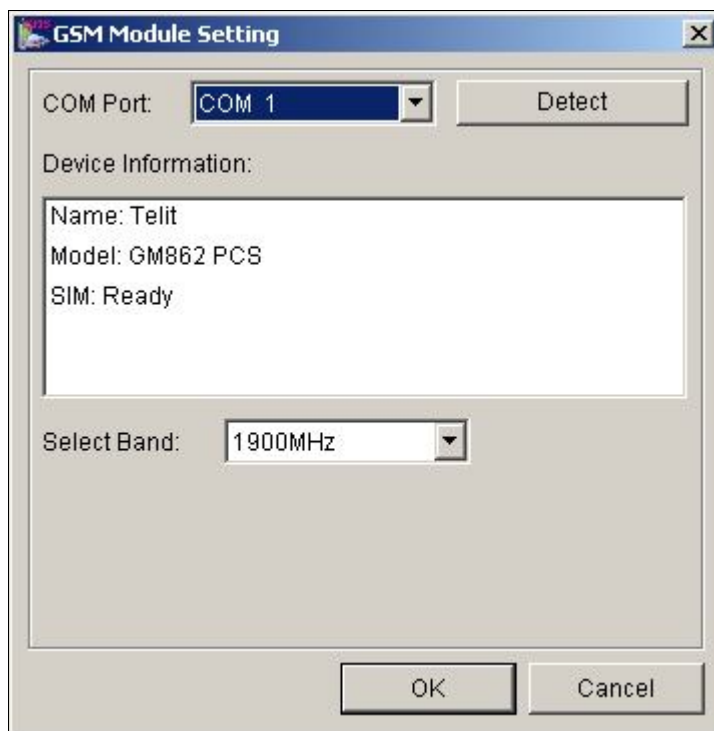


Figure 10-2 GSM Module Setting

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.

10.3.2 Server Settings

Click the **Server Setting** button (No. 2, 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]

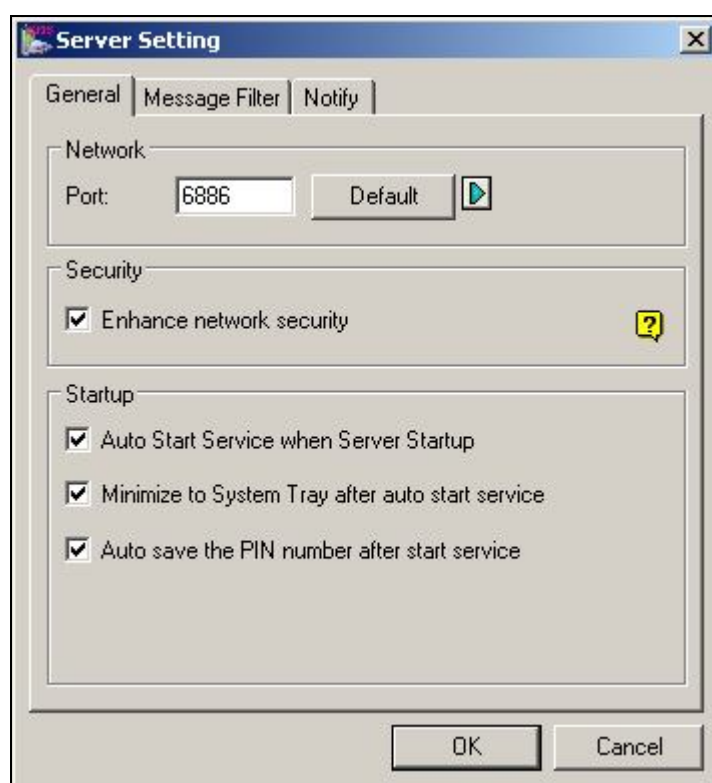


Figure 10-3 Server Setting-General

[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 8.

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

[Startup]

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

[Message Filter]

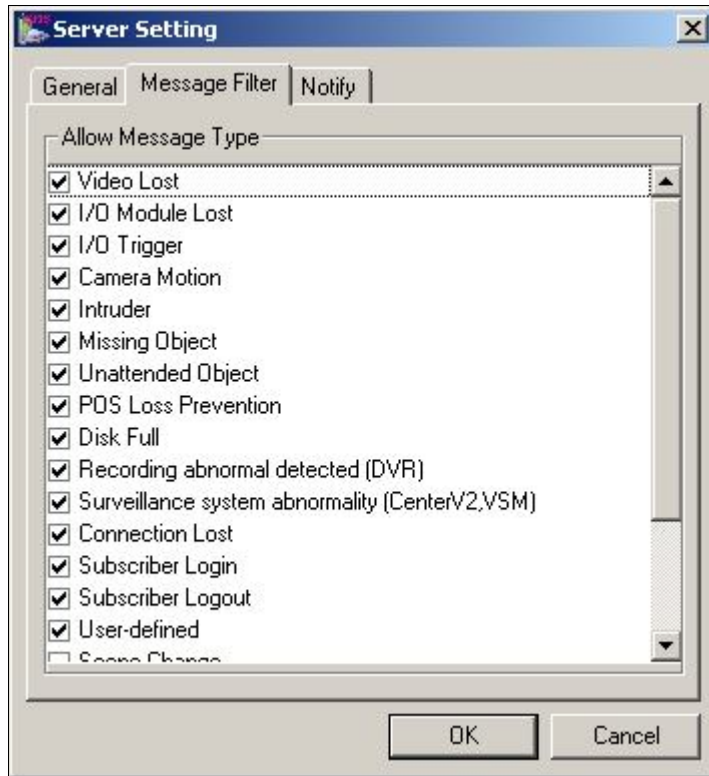


Figure 10-4 Server Setting-Message Filter

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 designated mobile numbers when the SMS Server cannot access Internet. You can specify the minimum time interval between each notification in minutes.

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

10.3.3 Account Settings

Click the **Account Setting** button (No.3, Figure 10-1) to display the following window.

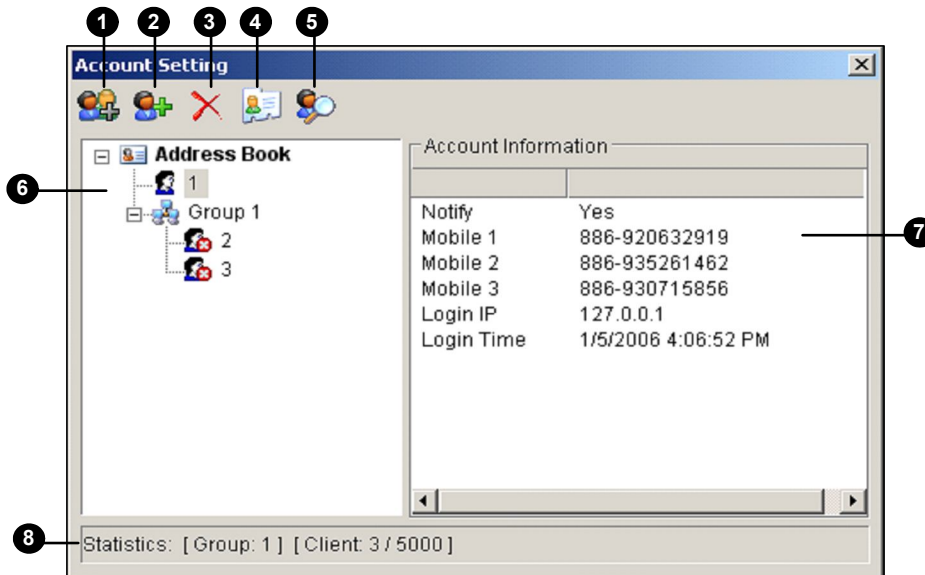


Figure 10-6 Account Setting

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: Save

Password: ? Cancel

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 a password. They will be the ID and password for the client to log in the SMS Server (Figure 10-13).
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 message 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: designate 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**.

10.4 SMS Log

10.4.1 Setting SMS Log

Click the **SMS Log Setting** button in the SMS Server window (No. 4, Figure 10-1), and select **SMSLog Setting** to display this dialog box.

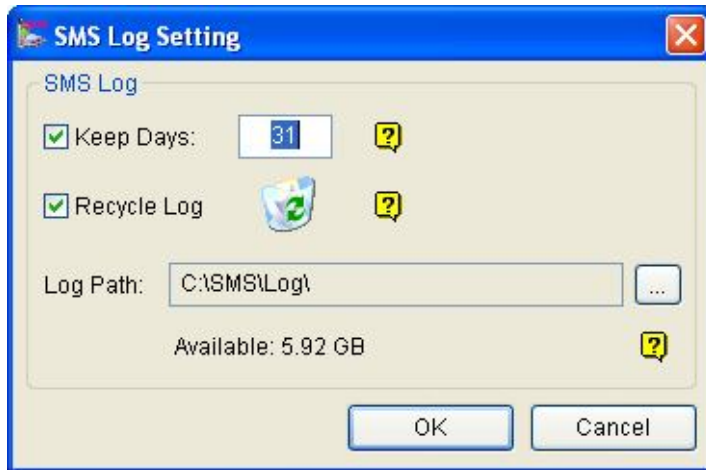


Figure 10-8

[SMS Log]

- **Keep Days:** Select this option and enter the number of days to keep log files. Otherwise clear the option to keep log files until the Recycle starts or the storage space is full.
- **Recycle:** Delete the files of the oldest day when storage space is lower than 500MB.
- **Log Path:** Click the [...] button to assign a storage path.

10.4.2 Viewing SMS Log

Click the **SMS Log Setting** button in the SMS Server window (No. 4, Figure 10-1), and select **View SMSLog** to display the SMS Log Browser.

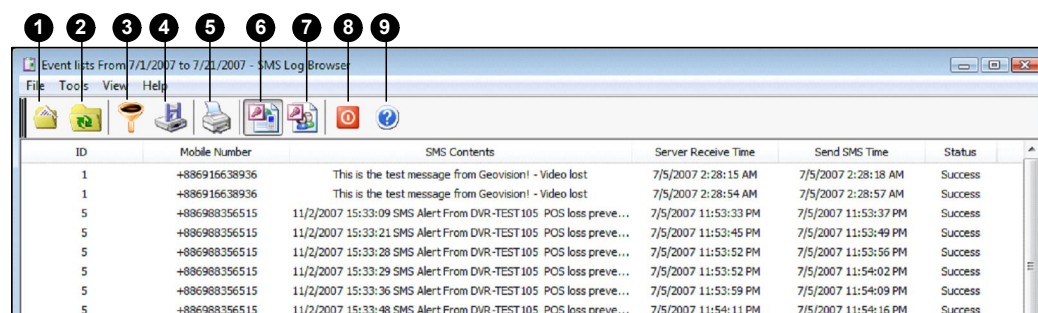


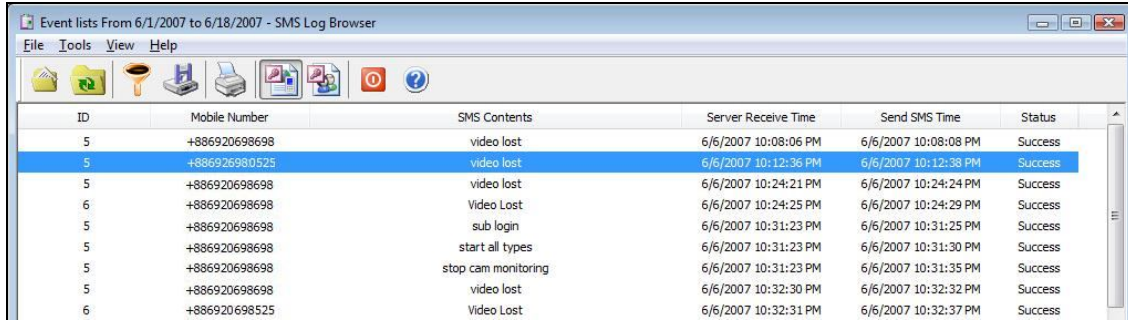
Figure 10-9

The buttons on the Event Log Browser:

No.	Name	Description
1	Open	Opens an event log.
2	Reload	Refreshes the event log manually
3	Filter	Defines the search criteria.
4	Backup	Exports the current event list and video files.
5	Print	Prints the current event list.
6	SMS Event Log	Displays the log of SMS server events.
7	System Event Log	Displays the log of SMS server activities.
8	Exit	Exits the browser.
9	About	Displays the application information of SMS Log Browser.

SMS Event Log

Clicking the **SMS Event Log** button (No. 6, Figure 10-9) 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.**

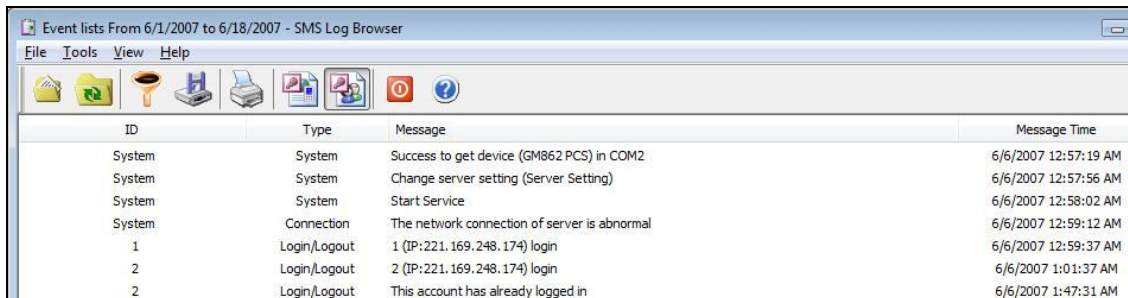


ID	Mobile Number	SMS Contents	Server Receive Time	Send SMS Time	Status
5	+886920698698	video lost	6/6/2007 10:08:06 PM	6/6/2007 10:08:08 PM	Success
5	+886926980525	video lost	6/6/2007 10:12:36 PM	6/6/2007 10:12:38 PM	Success
5	+886920698698	video lost	6/6/2007 10:24:21 PM	6/6/2007 10:24:24 PM	Success
6	+886920698698	Video Lost	6/6/2007 10:24:25 PM	6/6/2007 10:24:29 PM	Success
5	+886920698698	sub login	6/6/2007 10:31:23 PM	6/6/2007 10:31:25 PM	Success
5	+886920698698	start all types	6/6/2007 10:31:23 PM	6/6/2007 10:31:30 PM	Success
5	+886920698698	stop cam monitoring	6/6/2007 10:31:23 PM	6/6/2007 10:31:35 PM	Success
5	+886920698698	video lost	6/6/2007 10:32:30 PM	6/6/2007 10:32:32 PM	Success
6	+886920698525	Video Lost	6/6/2007 10:32:31 PM	6/6/2007 10:32:37 PM	Success

Figure 10-10

System Event Log

Clicking the **System Event Log** button (No. 7, Figure 10-9) on the toolbar, you can monitor the server activities, client login and logout, and connection problems.



ID	Type	Message	Message Time
System	System	Success to get device (GM862 PCS) in COM2	6/6/2007 12:57:19 AM
System	System	Change server setting (Server Setting)	6/6/2007 12:57:56 AM
System	System	Start Service	6/6/2007 12:58:02 AM
System	Connection	The network connection of server is abnormal	6/6/2007 12:59:12 AM
1	Login/Logout	1 (IP:221.169.248.174) login	6/6/2007 12:59:37 AM
2	Login/Logout	2 (IP:221.169.248.174) login	6/6/2007 1:01:37 AM
2	Login/Logout	This account has already logged in	6/6/2007 1:47:31 AM

Figure 10-11

10.5 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.

10.6 SMS Notification

After setting up the SMS Server, you will need to connect the GV-System to the SMS Server, assign mobile phones to receive SMS alert messages, and set up the types of events to send alert notification.

10.6.1 Connecting GV-System to SMS Server

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

1. On the main screen, click the **Configure** button (No. 14, Figure 1-2), select **System Configure**, and select **Send Alerts Approach Setup**. This dialog box appears.

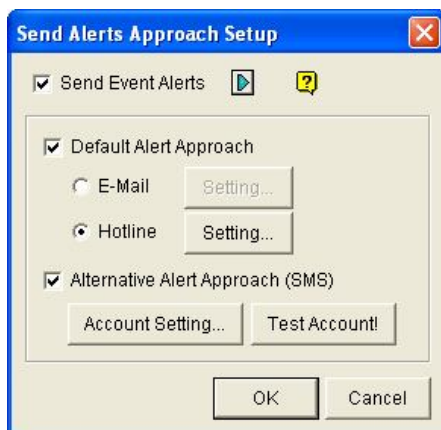


Figure 10-12 Send Alerts Approach Setup

2. Select **Send Event Alerts**, click the Arrow button and select the events to send alert notification.
3. Select **Alternative Alert Approach** to enable sending alerts by SMS messages.

4. Click the **Account Setting** button. This dialog box appears.



Figure 10-13 SMS Setup-Connection Setup

- **Server IP:** Type the IP address of the SMS Server.
 - **Server Port:** Type the server port of the SMS Server, or keep it as default.
 - **Login ID & Password:** Type a valid ID and password registered in the SMS Server (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.
5. Click the **SMS Option** tab and specify the Interval between 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.
 6. Click **OK** to apply above settings.
 7. Click the **Test Account** button (Figure 10-12). 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.*

10.6.2 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 (Figure 10-12).
2. Click the **Account Setting** button. The SMS Setup dialog box appears. (Figure 10-13).
3. Click the **Mobile Setup** tab in the upper of the window. This dialog box appears.

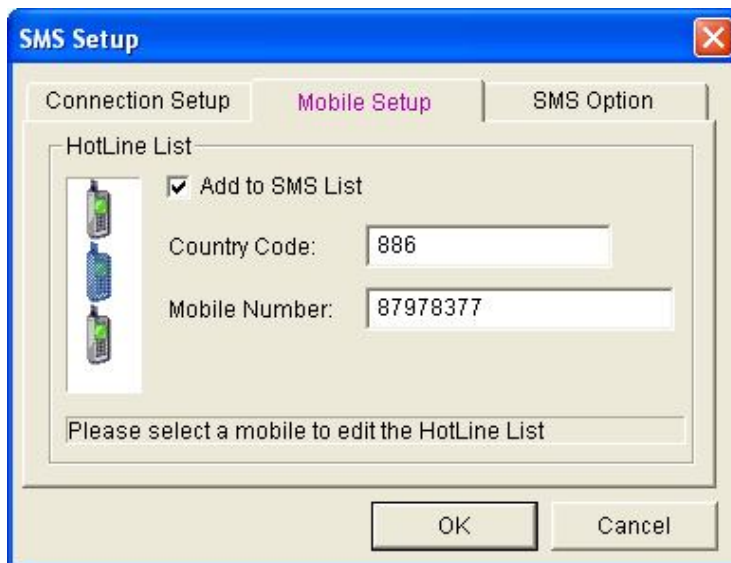


Figure 10-14 SMS Setup- Mobile Setup

4. Click one mobile phone icon, and then check the **Add to SMS List** item for the mobile phone setup.
5. Type the **Country Code** and **Mobile Number**.
6. Click other mobile phone icons, and follow Steps 4 and 5 to set up the rest of two mobile phone numbers separately.
7. Click **OK** to apply above settings.
8. Start monitoring. When the specified events or motion is detected, SMS alerts will be sent out automatically.

10.6.3 Setting Alert Notification

To specify the types of events to receive alert notification:

1. On the main screen, click the **Configure** button (No. 14, Figure 1-2), select **System Configure**, and select **Send Alerts Approach Setup**. The Send Alerts Approach Setup dialog box (Figure 10-12) appears.
2. Select **Send Event Alerts**, click the Arrow button and select the events to send alert notification.
3. Click **OK**.

To send SMS alerts when motion is detected:

1. Click the **Configure** button (No.14, Figure 1-2), select **System Configure** and select **Camera Configure**. The Camera Configure dialog box appears.
2. In the Motion Detection section, select **Invoke to Send Alerts**.

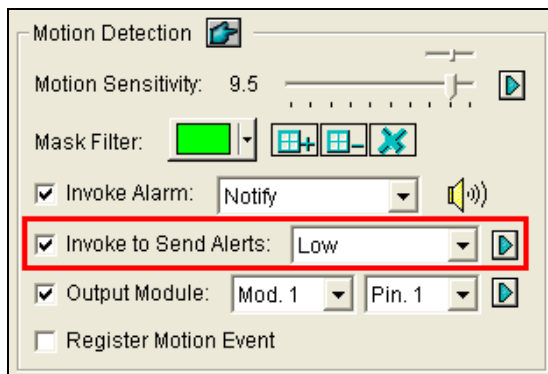


Figure 10-15

3. Click **OK**.

For details on the Invoke to Send Alerts options, see *Invoke to Send Alerts* in Chapter 1.