

SMS Hub



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Introduction

SMS Centre is intelligent automatic short message software which can send short message system (SMS), predefined message and receive short messages. It also provides send scheduled messages as well as automatic and manual message archive system.

SMS center comes with such a user-friendly interface that a user will be able to use it even without reading through its user manual. A user can customize the all the messages.

Sms centre has the capability of not only send short messages to individual but also send short messages to a group of people. The length of messages it can send is not only limited to only 160 characters but any messages that exceed 160 characters will be automatically divided into several pieces of message.

Features

There are a few features that this software

- **Modem pool:** enables to use more than one modem (up to 10 modems).
- **Contact management:** enables to include contact mobile phone information.
- **Group management:** enables creation of contact groups.
- **Message management:** customized messages creation.
- **Scheduled message system:** enables creation of scheduled message system. (daily, weekly and monthly)
- **Message logging:** enables logging of incoming and sent messages.
- **Message archiving:** enables manual and automatic message archiving.

Configuration

This section describes the installation and configuration of the iSMS

1. Software System Requirements

System requirements:

Minimum PC requirement

386, 486 or Pentium processor PC

A Mouse Device

Microsoft Window 2000, Window XP

CD-ROM drive

Additional 10 MB of hard disk space

Serial connection

The steps to install the Configuration Software are as below:

1. Insert the setup CD to the cd rom drive
2. Go to specific folder (SMS Hub) depending on the current machine's window OS.
E.g. the CD ROM drive is Z: and this is a **WIN 2000** machine, go to **Z:\WIN2000**
3. Run the setup.exe and follow the instructions.
4. Repeat the process for the installation of SMS Hub
5. Now we have finished the installation step of the configuration software.

Software Menu

The recommended steps to operate this software are as follows:

1. Modem Setting. A user has to register the modem it wishes to use. There are a maximum of ten modems that can be registered and used in this software. This can be accessed by clicking [Tool] and [Modem setting] on the main toolbar.
2. After registering a modem, a user can open the modem connection. This can be accessed by clicking [Tool] and [Connect] on the main toolbar. Note: if there is no modem, then a user can't use this software.
3. Contact registration. This form is used to register contact information and his/her phone number. This should be done in advanced before proceeding to other activities. This can be accessed by clicking [Contact] and [Contact registration] on the main toolbar.
4. Group registration. A user can create groups that contain list of contacts. This can be accessed by clicking [Contact] and [Group registration]

5. Message registration. A user may register predefined messages. These messages will later be used for scheduled task. This can be accessed from [Message centre] on the main toolbar.
6. Timer registration. If a user wants to create a scheduled task, a user has to define the timer for the task. This can be accessed by clicking [Timer] on the main toolbar.
7. Task registration. After a user has registered a timer, a user can create scheduled tasks. This can be accessed by clicking [Task Group] and [Task] on the main toolbar.
8. Send SMS. This is used to send a message to a contact, group or user-defined phone number. This can be accessed by clicking [Task group] and [Send SMS] on the main toolbar.
9. Message log. This is the form at which incoming messages and outgoing messages are listed. This can be accessed by clicking [Log] on the main toolbar.
10. History Setting. This is used to create an automatic clearance of message log and manual clearance of message log. This can be accessed by clicking [Tool] and [History setting] on the main toolbar.

List of menu in SMS Hub software is as follows:

- File menu, consists of :
 - Exit
- Tool menu, consists of:
 - Connect
 - Modem Setting
 - History Setting
- Contact menu, consists of:
 - Contact Registration
 - Group Registration
- Message centre menu.
- Task group menu, consists of:
 - Send SMS
 - Task
- Timer menu.

- Log menu.
- Help menu, consists of:
 - About

Further detail explanation for each sub menus will be described below.

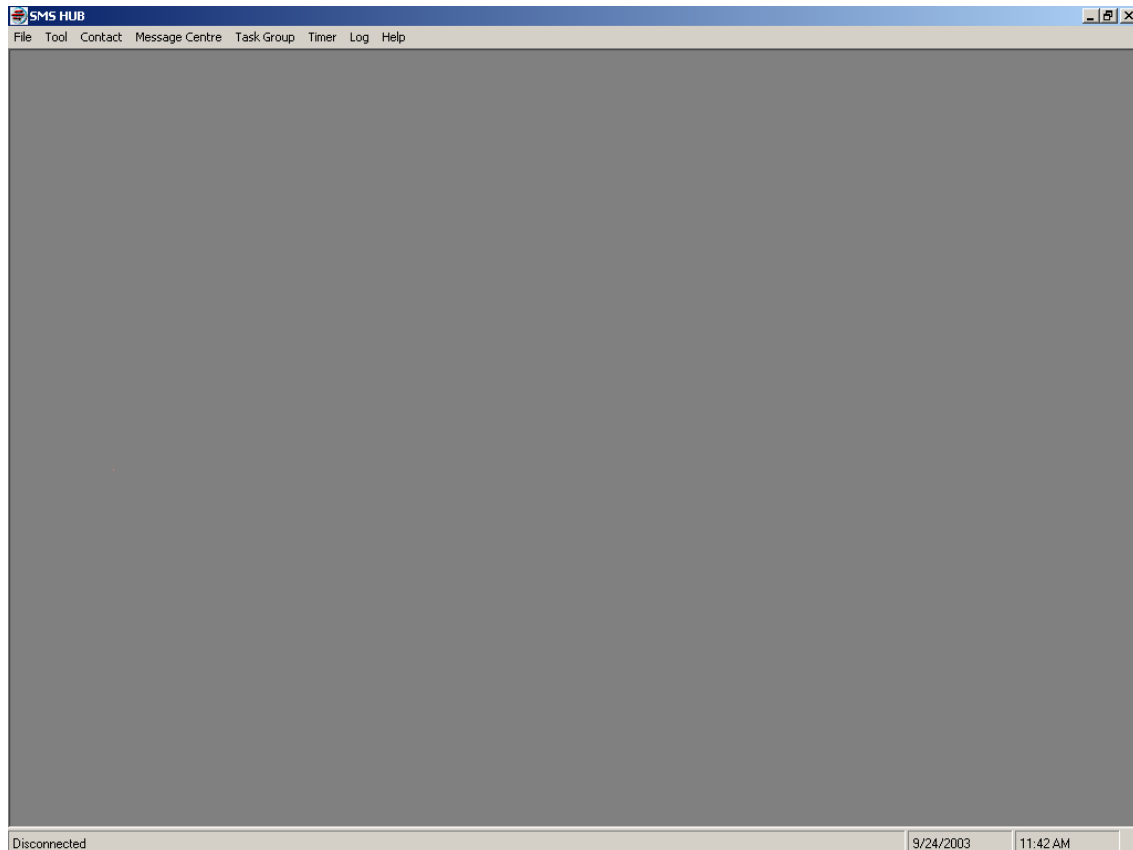


Figure 1 Main menu form

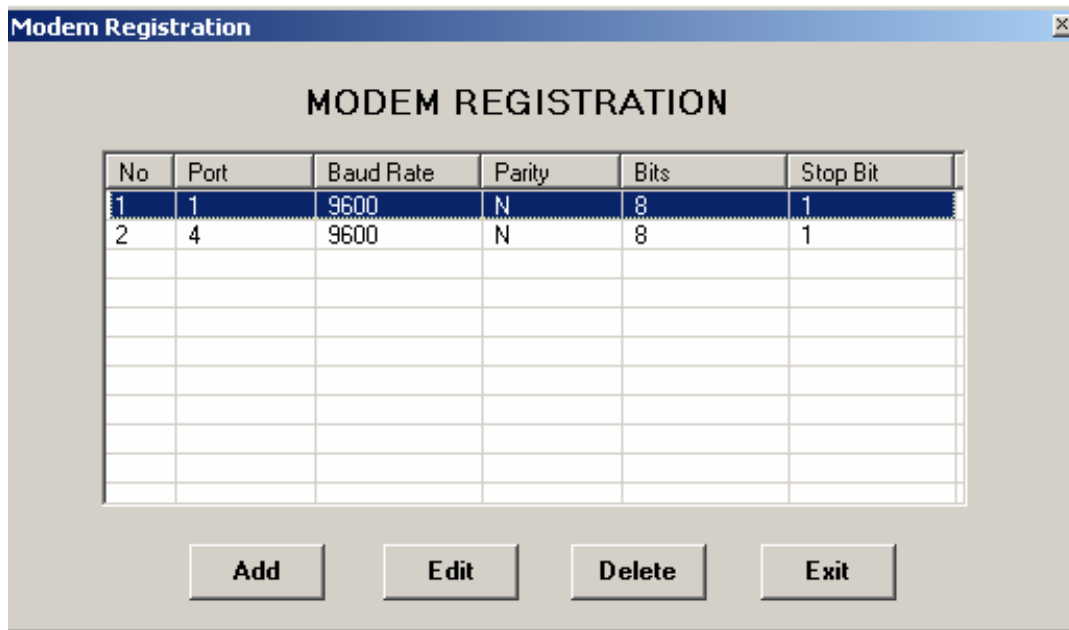
1. Tool

a) Connect

This is used to open all registered modem connections. If all registered modems are successfully connected, then there will be a “Connected” word written on the bottom-left toolbar. If there is an error then there will be a “Disconnected” word written on the bottom-left toolbar.

b) Modem setting

Modem setting is the first step required to use this software. Initially a user will be presented with modem registration form (figure below). This form will list all the modems registered together with other such information as port number, baud rate, parity, stop bit and bits.



No	Port	Baud Rate	Parity	Bits	Stop Bit
1	1	9600	N	8	1
2	4	9600	N	8	1

Figure 2 Modem registration form

Command button explanation for modem registration form:

- Add command button: used to add another modem.
- Edit command button: used to edit a selected modem.
- Delete command button: used to delete selected modem.
- Exit command button: used to close modem registration form.

If a user clicks add or edit command button then modem setting form will appear. This form is used to add another modem or edit a selected modem. OK command button on modem setting form will be disabled until all the inputs are on the form are correctly filled out. There are a maximum of 10 modems that can be registered in SMS hub. Before a modem is registered it will be first tested. If it is tested successfully it will be registered, but if it is not successfully tested, it will not be registered.

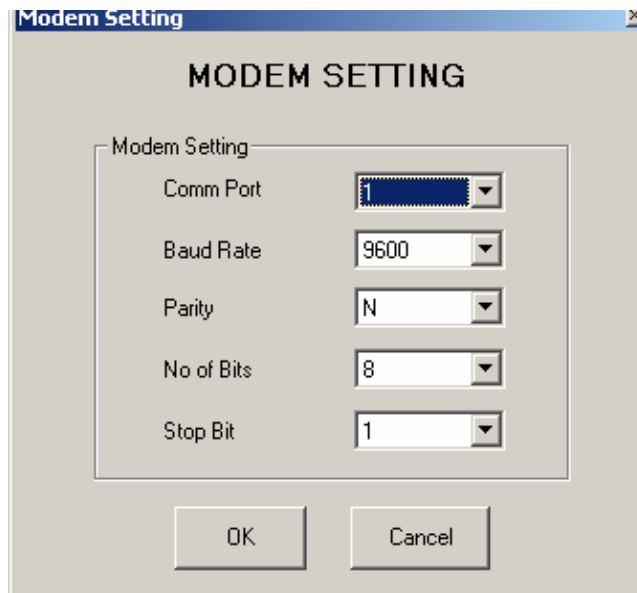


Figure 3 Modem setting form

c) History setting

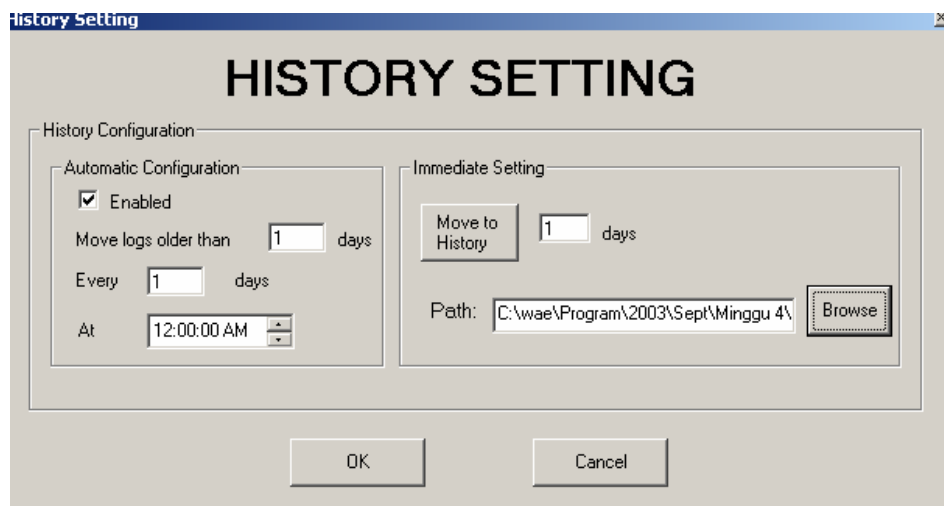


Figure 4 History setting form

History setting form has two main functions:

- Automatic configuration

This is used to automatically archive message logs in the database at a predefined time. All a user has to do is to check the enable check box and fill out such necessary information as:

- The number of days for message archive.
- Period of automatic message archive.
- Time of automatic message archive.

Automatic message archive will create a new .csv file into a history files folder. This folder will be automatically created in the current path of the executable program. The file name will be in the “month-date-year”.csv format.


- **Immediate setting**

Immediate setting is used to archive message logs in the database immediately. All a user has to do is to fill out the number of days for message archive and the path and file where the message log will be archived. A user as a selection of archiving message log in two formats: text (.txt) format and .csv format.

2. Contact Registration

This is used to display all available contacts in the system. It displays contact ID, description and hand phone number. Command button explanation for contact registration form:

- Add command button: used to add a new contact.
- Edit command button: used to edit a selected contact.
- Delete Command button: used to delete a selected contact.
- Exit command button: used to close contact registration form.



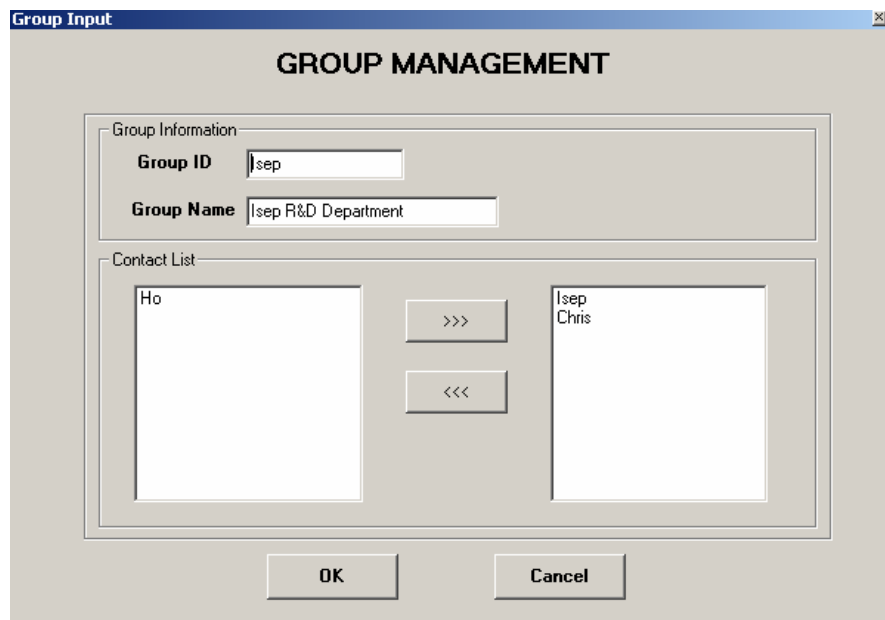
The screenshot shows a software window titled "CONTACT" with a sub-header "CONTACT INFORMATION". Inside the window, there is a form with three input fields: "Contact ID" containing "Isep", "Description:" containing "Isep(s) Pte Ltd", and "Hand Phone" containing "97975628". At the bottom of the form are two buttons: "OK" and "Cancel".

Figure 6 Contact information form

3. Group registration

This is used to display all available groups in the system. It displays group ID and group name. Command button explanation for group registration form:

- Add command button: used to add a new group.
- Edit command button: used to edit a selected group.
- Delete command button: used to delete a selected group.
- Exit command button: used to close group registration form.



The screenshot shows a window titled "Group Input" with a "GROUP MANAGEMENT" header. It contains two main sections: "Group Information" and "Contact List".

- Group Information:** Contains two text input fields. The "Group ID" field contains the text "Isep". The "Group Name" field contains the text "Isep R&D Department".
- Contact List:** Contains two list boxes and two buttons. The left list box contains the text "Ho". The right list box contains the text "Isep" and "Chris". Between the list boxes are two buttons: the top one is labeled ">>>" and the bottom one is labeled "<<<".

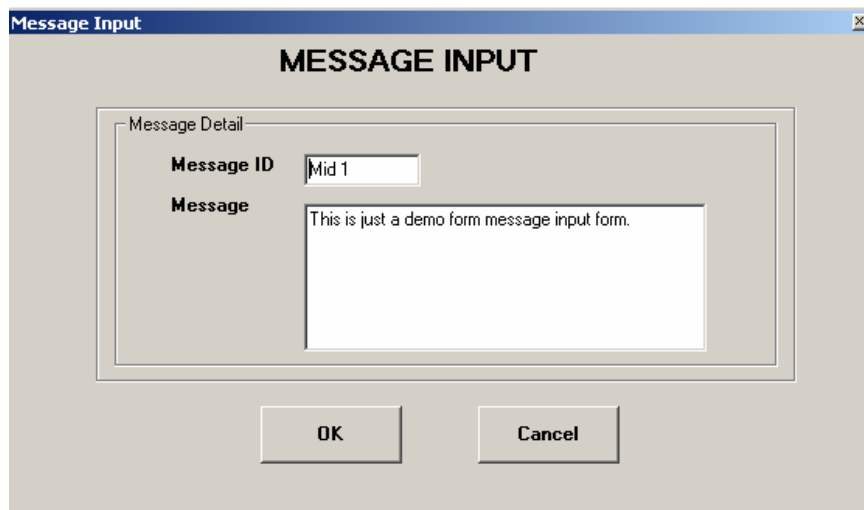
At the bottom of the window are two buttons: "OK" and "Cancel".

Figure 8 Group management form

4. Message Registration form

Message registration form is used to display all available messages in the system. This includes message ID and message information. Command button explanation for message registration form:

- Add command button: used to add a new message.
- Edit command button: used to edit a selected message.
- Delete command button: used to delete a selected message.
- Exit command button: used to close message registration form.



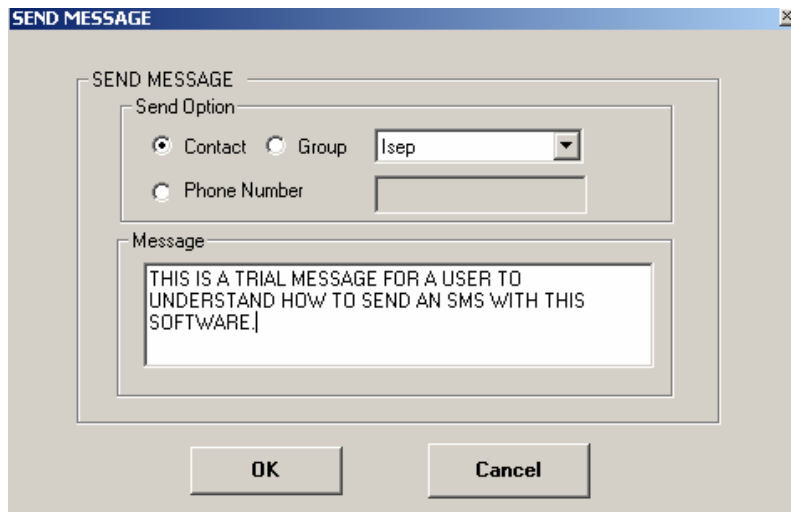
The screenshot shows a dialog box titled "Message Input". Inside the dialog, there is a section titled "Message Detail". This section contains two fields: "Message ID" with the value "Mid 1" and "Message" with the text "This is just a demo form message input form.". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Figure 10 Message input form

5. Send SMS

Send SMS form is used to send an SMS. One of the features of this software is an sms can be sent to a contact, group of contact or a user-defined phone number. Command button explanation for send SMS form:

- OK Command button: used to send an sms.
- Cancel command button: used to cancel sending sms and close send sms form.
- There are three option buttons: a contact, group and phone number. If a user choose contact or group option, then the combo box will list either contact or group respectively. If a user chooses phone number option, then a user should enter a mobile phone number.



The screenshot shows a 'SEND MESSAGE' dialog box. It has a title bar with the text 'SEND MESSAGE' and a close button. The main area is divided into two sections: 'Send Option' and 'Message'. In the 'Send Option' section, there are three radio buttons: 'Contact' (which is selected), 'Group', and 'Phone Number'. To the right of the 'Contact' radio button is a dropdown menu showing 'Isep'. Below the 'Phone Number' radio button is an empty text box. The 'Message' section contains a text area with the following text: 'THIS IS A TRIAL MESSAGE FOR A USER TO UNDERSTAND HOW TO SEND AN SMS WITH THIS SOFTWARE.'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

Figure 11 Send SMS form

6. Task Management

Task management form is used to display all available tasks in the system. This includes such information as task id, message id, contact id, group id, reply to sender, activated message id, activated timer id and enable. Command button explanation for task management form:

- Add command button: used to add a new task.
- Edit command button: used to edit a selected task.
- Delete command button: used to delete a selected task.
- Exit command button: used to close task management form.

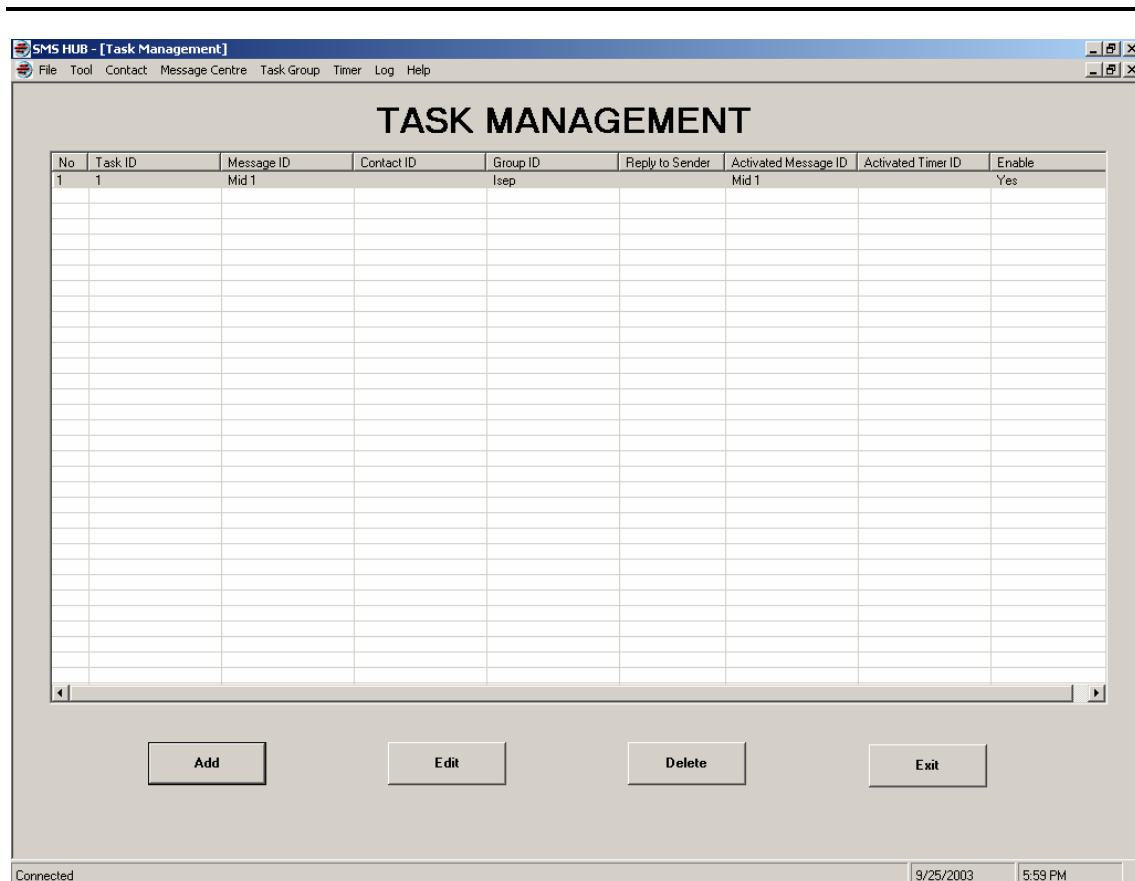


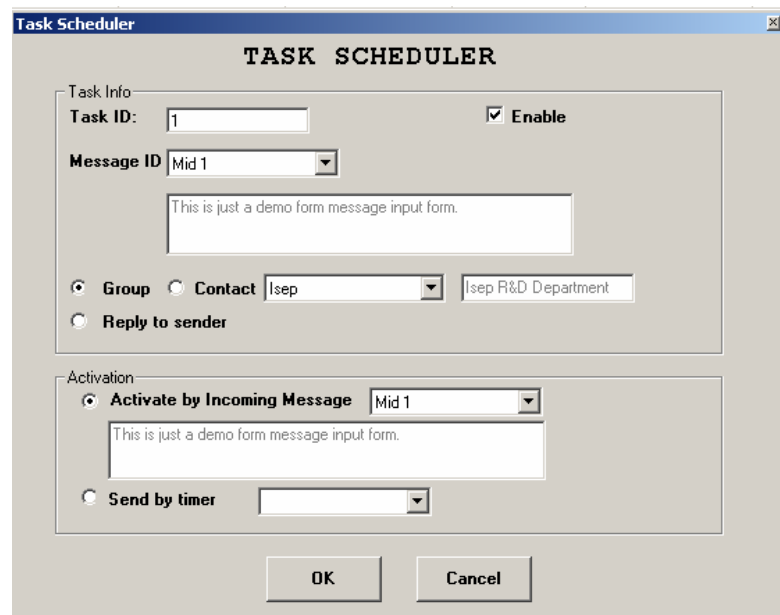
Figure 12 Task management form

If a user clicks add/edit command button, a task scheduler form will appear. Then a user can add a new task or edit a selected task. Further explanation for task scheduler form is as follows:

- Task ID: a unique 8 character long alphanumeric.
- Message ID: a selection of message id that a user wants to send to predefined recipient.
- Message text box: used to display a selected message ID.
- Group option button: a selection of group information.
- Contact option button: a selection for contact information.
- Reply to sender option button: used to reply a predefined message (chosen previously) to a sender's mobile phone.
- Contact combo box: used to display a group or a contact id depending on a user's selection of either group or contact option button.

- Activate by incoming message option button: a selection of activated message id.
- Incoming message ID combo box: a selection of registered message ID
- Incoming message ID text box: used to display a selected message ID.
- Send by timer option button: a selection of send by timer.
- Timer combo box: a selection of available timer.
- Enable check box: this box should be checked if a user wants to enable the corresponding task and vice versa. A task won't be activated until this enable check box is checked.
- OK Command button: used to finalize all the changes and saved to database
- Cancel command button: used to cancel all the changes and close task scheduler form

OK command button will not be enabled until a user has made the correct insertion to task scheduler form.



The screenshot shows a window titled "Task Scheduler" with a sub-header "TASK SCHEDULER". The form is divided into two main sections: "Task Info" and "Activation".

Task Info:

- Task ID:** A text box containing the value "1".
- Message ID:** A dropdown menu showing "Mid 1".
- Text box:** A text area containing the text "This is just a demo form message input form."
- Group:** A radio button selected, with a dropdown menu showing "Isep" and a text box containing "Isep R&D Department".
- Contact:** A radio button not selected.
- Reply to sender:** A radio button not selected.
- Enable:** A checked checkbox.

Activation:

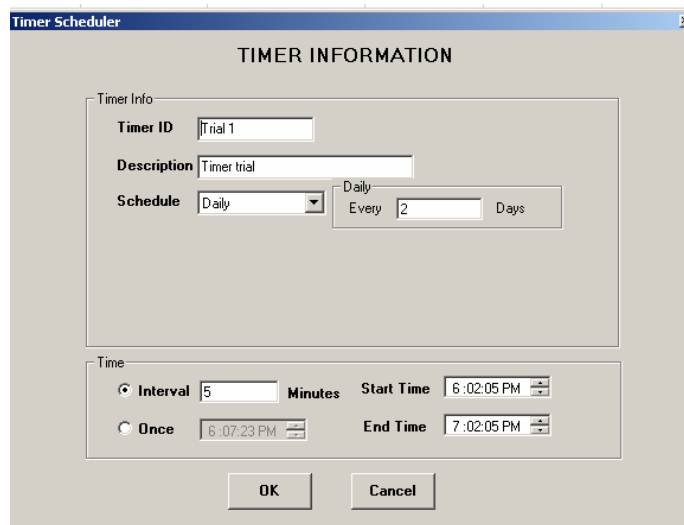
- Activate by Incoming Message:** A radio button selected, with a dropdown menu showing "Mid 1".
- Text box:** A text area containing the text "This is just a demo form message input form."
- Send by timer:** A radio button not selected, with an empty dropdown menu.

At the bottom of the form are two buttons: "OK" and "Cancel".

Figure 13 Task scheduler form

- Description: further description pertaining corresponding timer id.
- Schedule combo box: a selection of daily, monthly and weekly.
- Weekly combo box: a selection of day of the week.
- Monthly combo box: a selection of date of a month. A user can select more than one dates.
- Interval text box: period of repetition (in minutes)
- Once text box: a selection of time of execution.
- Start time: a selection of start time.
- End time: a selection of end time.
- OK command button: used to finalize and save timer information to database.
- Cancel command button: used to cancel all changes and close timer scheduler form.

OK command button will be disabled until all the inputs are correctly entered in timer scheduler form.



The screenshot shows a window titled "Timer Scheduler" with a sub-header "TIMER INFORMATION". The form is divided into two main sections: "Timer Info" and "Time".

Timer Info:

- Timer ID: Text box containing "Trial 1".
- Description: Text box containing "Timer trial".
- Schedule: A dropdown menu set to "Daily". To its right, a sub-section for "Daily" scheduling includes an "Every" text box with "2" and "Days".

Time:

- Radio buttons for "Interval" (selected) and "Once".
- Interval: Text box with "5" and "Minutes" label.
- Start Time: Time picker showing "6:02:05 PM".
- Once: Radio button with a time picker showing "6:07:23 PM".
- End Time: Time picker showing "7:02:05 PM".

At the bottom of the form are "OK" and "Cancel" buttons.

Figure 15 Timer information form

8. Message Log

Message log is used to display all incoming and outgoing messages. It includes:

- Message log id: Message log identification number. This number is assigned by the system.

- Contact id: contact identification.
- Group id: group identification.
- Message: message sent or received.
- Date: date at which a message is received or sent.
- Time: time at which a message is received or sent.
- Origin: it's either incoming message or outgoing message.

Command button explanation for message log form:

- Search command button: used to search messages according to search criteria.
- Exit command button: used to close message log form.
- Start date: start date for search message.
- End date: end date for search message.
- Option button: there are three option buttons: incoming, outgoing and all (all incoming and outgoing) messages.
- Message display option: there are three option buttons:
 - All incoming messages: to display all incoming messages from database.
 - All outgoing messages: to display all outgoing messages from database.
 - All messages: to display all both outgoing and incoming messages.

Appendix A

Procedure to replace registered GSM modem.

In the event that the registered GSM modem is faulty and need to replaced, contact ISEP for sales of new GSM modem.

After receiving the GSM modem, follow the below procedure to re-register the GSM modem

1. you will receive a file “smscenter.exe”
2. locate the existing smscenter.exe in your hard drive. You can use Microsoft Search utility to assist in locating the file (Click Start, Search, For files or folder. Enter the “smscenter.exe” in the search item box.
3. Once located the path for smscenter.exe, go the the directory. Replace the smscenter.exe with the new program provided.