

Email-SMS Alert Gateway

EzSMS-Lite USER'S MANUAL

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EzSMS-Lite User Manual

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1. Introduction

EzSMS is an effective SMS messaging system for your company. The EzSMS allows ease of sending of SMS, by enhancing email client with the integration of SMS capability. It allows you to send SMS to single mobile phone user or multiple mobile phone users.

EzSMS can be deployed for critical equipment alert via SMS. For equipment that can generate alarm email, EzSMS convert it to SMS and deliver the message to the recipient's handphone.

EzSMS is useful for sending a SMS to multiple mobile phones. A good example is when a secretary wants to remind her colleagues to attend a meeting at a particular time. She would only need to compose a email and address to her colleagues' SMS address then send it. This will save her a lot of time in gathering her engineers. Furthermore, if her email client supports scheduling (e.g. Microsoft Outlook), she will be able to schedule a pre-define time to send out her message.

2. Functional Description

EzSMS is simple and reliable, an effective gateway for receiving emails, and sending them out in the form of SMS messages to users' mobile phones. Only the subject or body content will be sent out to intended recipient.

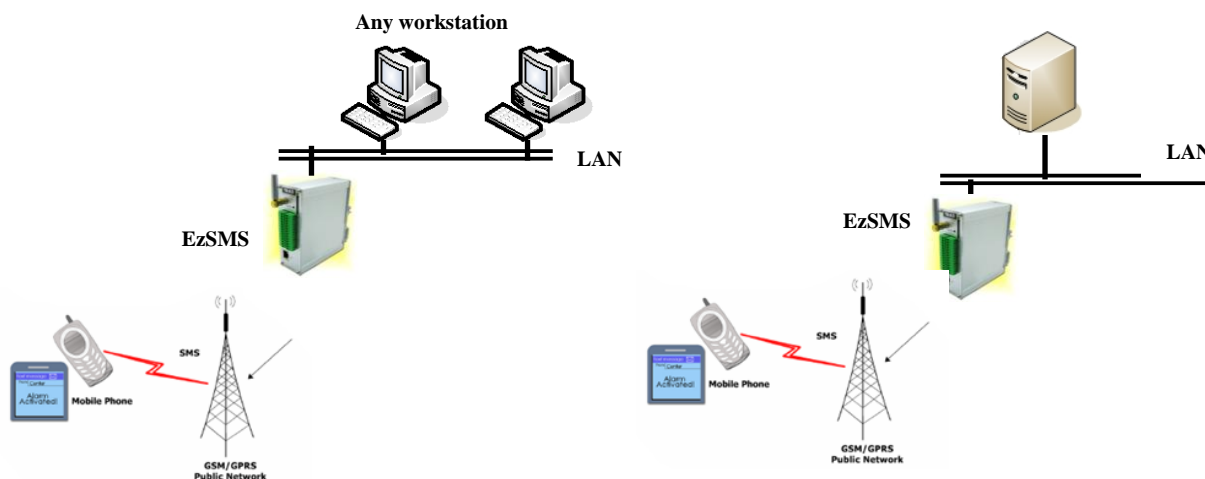
The setup is very simple. In the setup of your email client (SMTP client), point the SMTP server IP address to the gateway IP. This way the SMTP client will sent email to the gateway. It is not required to pre-configure any destination mobile phone number or pre-define message.

To send SMS message to a destination mobile, all you need is to composed your message content (limit to 160 characters) in the subject of the email and define the mobile number in the recipient (e.g. +6597654321@ezSMS.com). SMS send failure will be stored in memory to be resent when the network is ready again.

This EzSMS Alert Gateway can be used in conjunction with fault detection system that can only issue emails whenever any fault is detected. Example of such equipments are security camera, UPS, compressor etc. As such, the short fault message can be pre-defined as the subject title and only the detail information is recorded in the message body. The service technician mobile number can be set as recipient. In this manner, the gateway can send out the message more effectively and the service technician can be alerted immediately.

It is user-friendly. Only simple LAN settings are required.

Topology



EzSMS is a thin client device sitting on your company's LAN. It allows employees to send SMS quickly and as simple as sending email. There is no training required for the users. Sending SMS from other location is also possible but there may be some delay depending on the sender's email system.

Functions

Followings are the functions that EzSMS can performs

1. Sending SMS to single mobile phone
2. Sending SMS to multiple mobile phones
3. Sending SMS to multiple mobile phones via distribution list
4. Schedule a message to be sent by using the email client's scheduling function

Typical applications for Easy SMS are

1. Service reminder. E.g. Car Maintenance, Medical appointment.
2. Promotion & advertising
3. Critical alarm alert to service technician or system administrator
4. Equipment down alert
5. UPS switchover alert
6. Alarm alert in Data Center
7. Critical server down alert

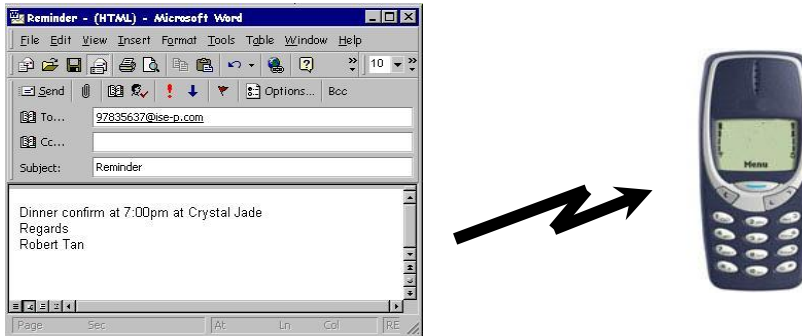
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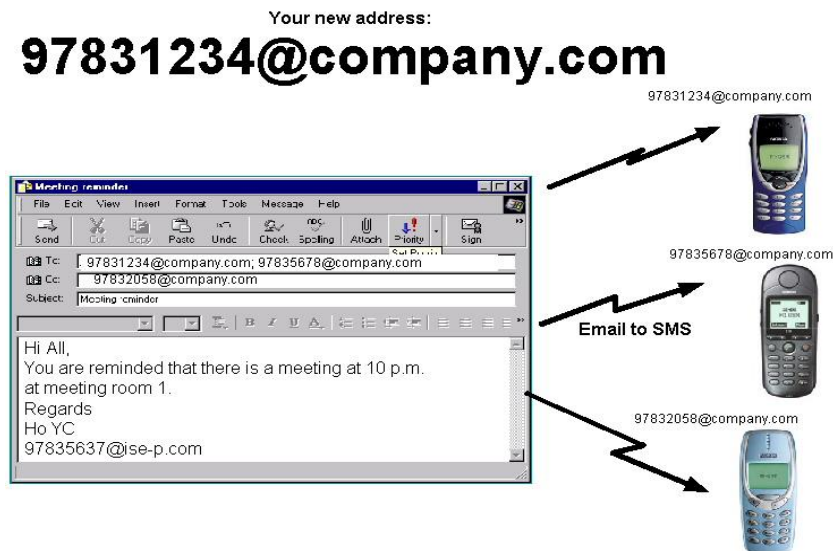


EXAMPLES

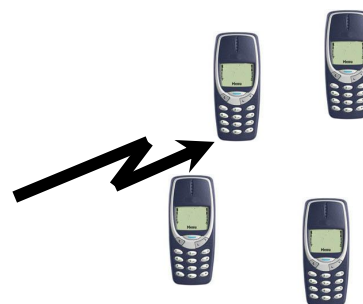
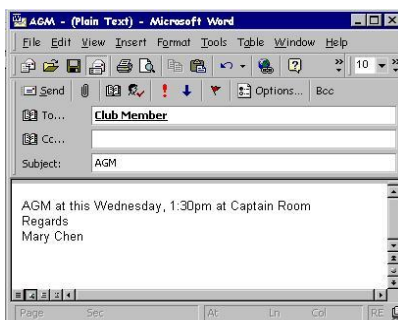
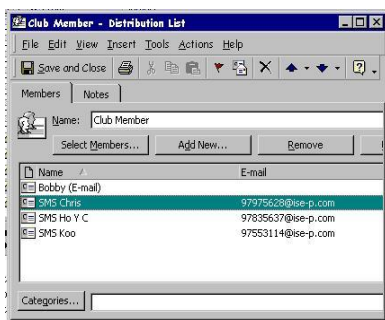
Constructing and sending a message to a mobile phone



Constructing and sending a message to multiple mobile phone



Constructing a distribution list and sending a message to multiple mobile phones in (example: announcement to members)

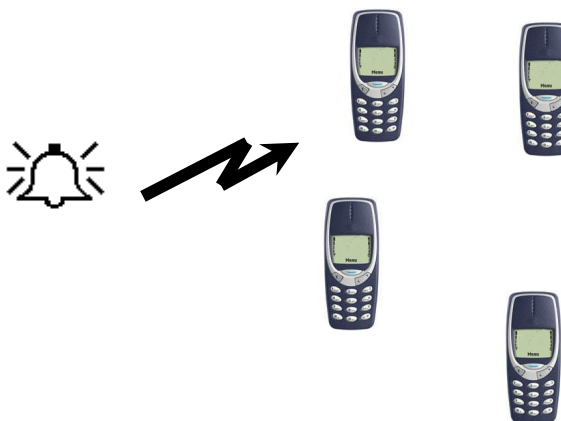
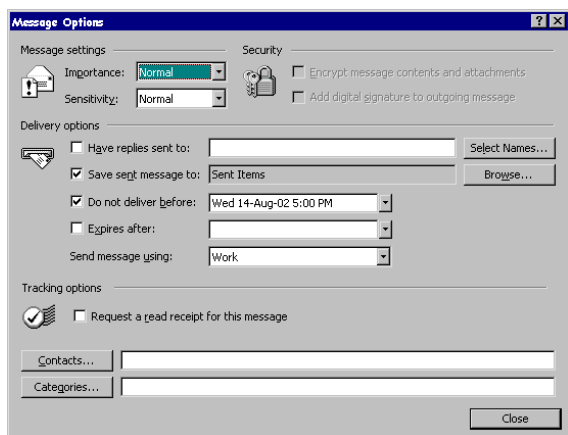


Receive SMS

--- Sent SMS via email ----

Create distribution list--

Schedule the sending of a message to mobile phones in the distribution list



3. Specifications

Hardware

Communication Interface

Ethernet Port : 10BaseT, RJ45 connector

GSM Standard

Antenna gain

3dBi (JW-X-010)

Bandwidth

Dual band GSM 900/1800 MHz

Diagnostic LED

GSM status, LAN link

Power

Supply Voltage : Unregulated 7 to 30 VDC

Power Consumption : 1.2 Watts DC at 12 VDC

Load : 180mA (max)

Physical Dimension

Dimension: 130mm x 41mm x 120mm (DxWxH)

Weight : 460g

Environmental

Operating Temperature : 10°C – 55°C

Operating Humidity : 5 – 90 % non-condensing

Installation Method

- 35mm Din-Rail, Desk Mount, Panel Mount

Features

S/N	Function	Remark
	<u>Configuration</u>	
1	User configurable IP address	Yes
2	Configuration	Web
3	Configurable EzSMS address	<telephone number>@ezsms.com
	<u>Mobile Phone</u>	
1	Singtel User	Supported
2	StarHub User	Supported
3	M1 User	Supported
4	SMS overseas	With Auto- roam SIM card
5	GSM Network supported	GSM 900/GSM1800/GSM1900
	<u>LAN</u>	
1	Email Protocol	SMTP
2	10BaseT	10 Mbps
3	LAN Connection	RJ45
	<u>Features</u>	
1	Length of message	150 characters
2	After 150 characters	Carried over to 2 nd SMS
3	Message sent receipt	No
4	Scheduling using MS Outlook	Yes
5	Scheduling using MS Exchange	Yes
6	Multiple SMS	Yes
7	Alert to multiple HP	Yes
8	Virus attack on HP	No, since only text is transferred

4. Connections

1. Power screw terminal V+, V- (Polarity independent)
2. Ethernet connection
3. Reset Input
4. GSM card slot.

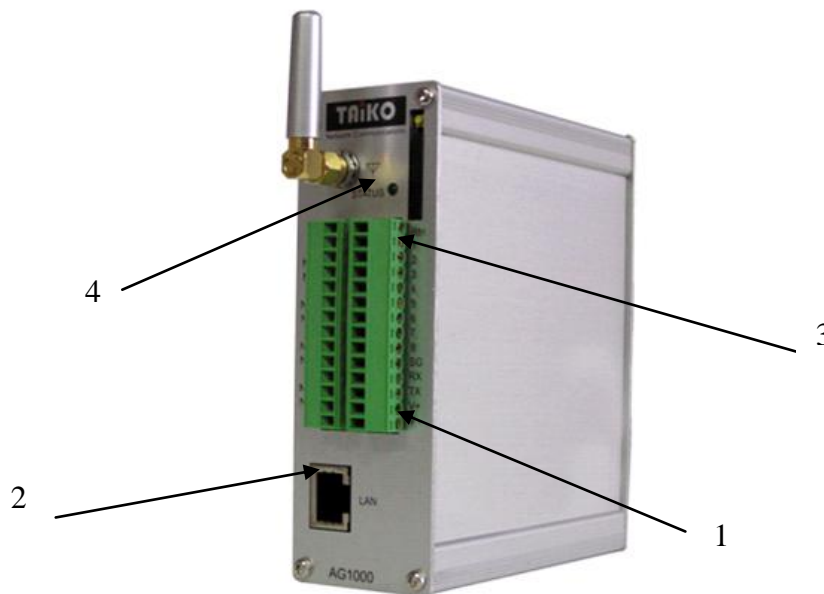


Figure 1: Gateway connections

No	Pin Name		No	Pin Name	
1	D-	Not Used	15	RTN	Factory Reset
2	D+	Not Used	16	1	Factory Reset
3	NO1	Not Used	17	2	Not Used
4	NC1	Not Used	18	3	Not Used
5	C1	Not Used	19	4	Not Used
6	NO2	Not Used	20	5	Not Used
7	NC2	Not Used	21	6	Not Used
8	C2	Not Used	22	7	Not Used
9	NO3	Not Used	23	8	Not Used
10	NC3	Not Used	24	SG	Not Used
11	C3	Not Used	25	RTX	Not Used
12	NO4	Not Used	26	TX	Not Used
13	NC4	Not Used	27	V+	Power V+
14	C4	Not Used	28	V-	Power V-

- Short Pin RTN to Pin 1 to reset factory setting.

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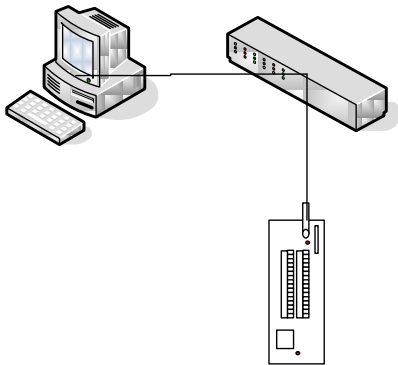
Ethernet 10 Base T; RJ 45 connection

Pin	Signal	Direction	Description
1	TD+	Out	Transmitted data
2	TD-	Out	Transmitted data
3	RD+	In	Received Data
4			Not connected
5			Not connected
6	RD-	In	Received Data
7			Not connected
8			Not connected

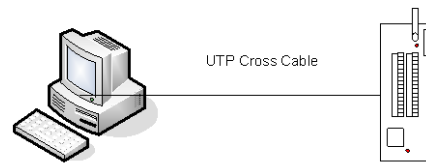
5. Installation & Configuration

This section describes the installation and configuration of the EzSMS

Hardware Connection



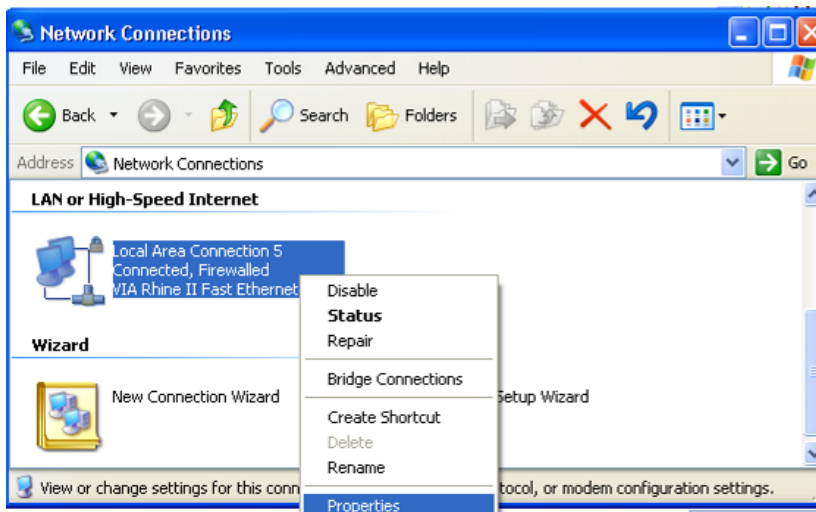
Configuration setup via switch
(Using UTP straight cable)



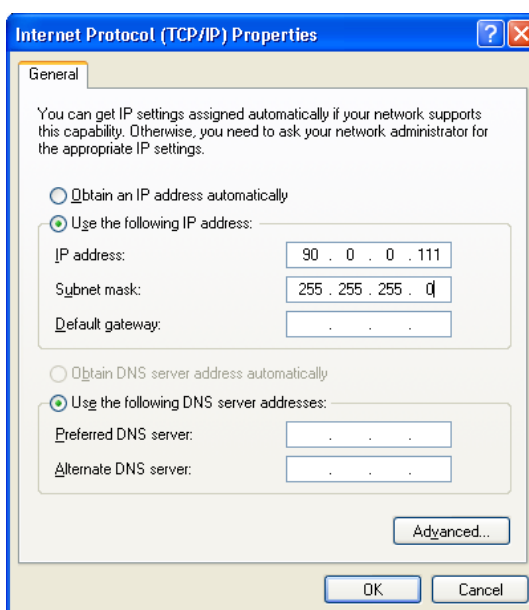
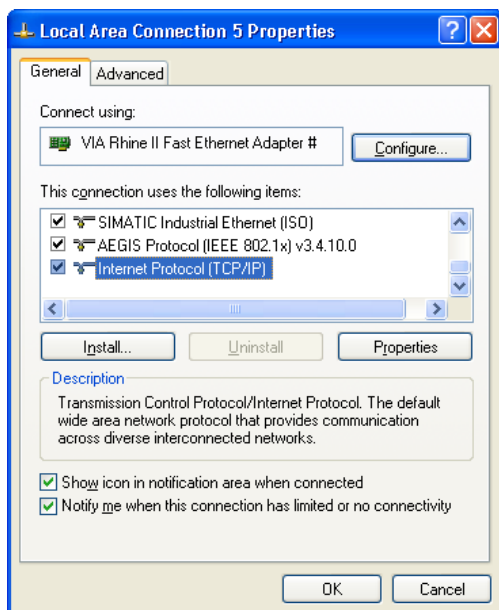
Configuration setup direct
(Using UTP cross cable)

Software Connection

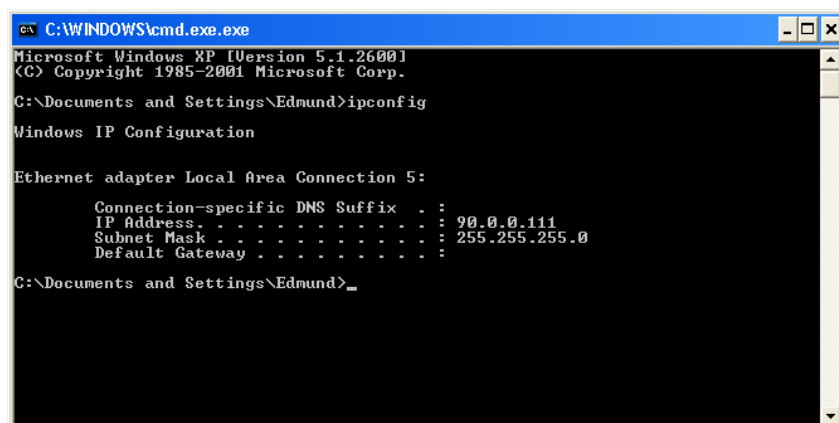
Go to “Control Panel”. Select “Network Connections”.
Right click “Local Area Connection”. Select “Properties”



Configure the Workstation to a static IP address. E.g. 90.0.0.111

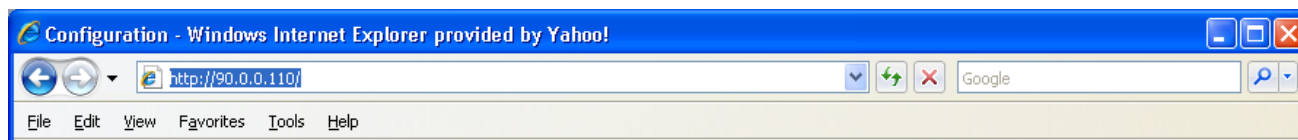


Check IP address of the workstation with the command "ipconfig"



- Connect the EUT with UTP cross cable to the workstation Ethernet port.
- OR*
- Connect the EUT with UTP cable to a switch.
- Connect the EUT to Power Supply Unit with output of 9-36Vdc.

Proceed to run Internet Explorer.
Type in the web address: <http://90.0.0.110>



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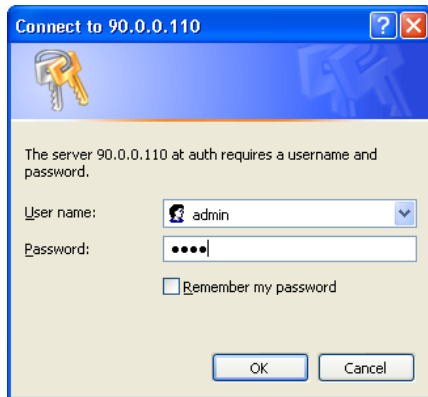
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You will be prompted to enter Username and password.

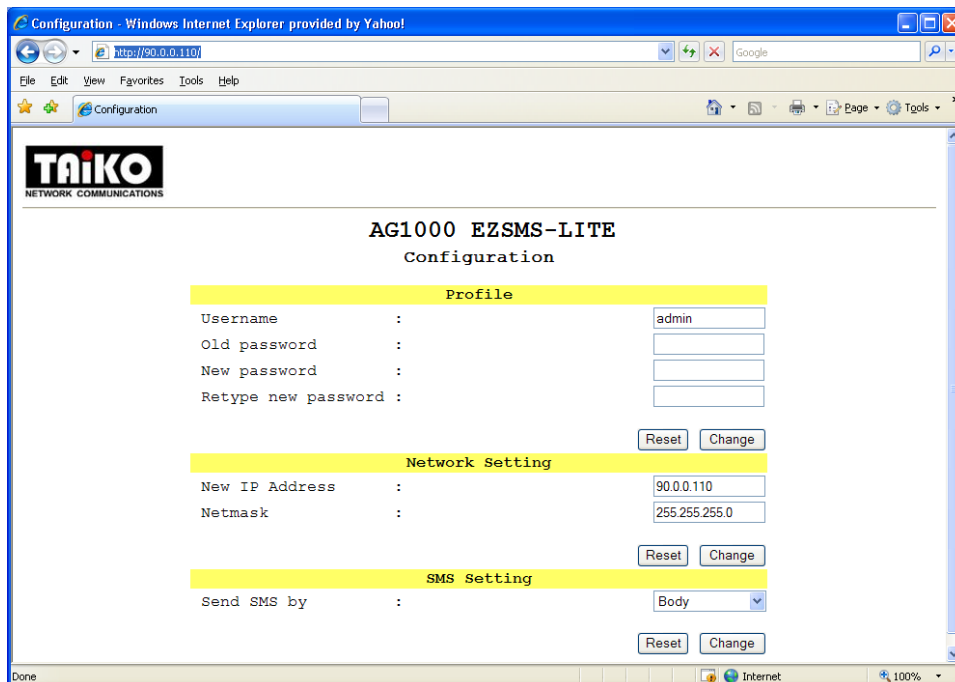
Key in as follow:

Username : Admin

Password : 1234



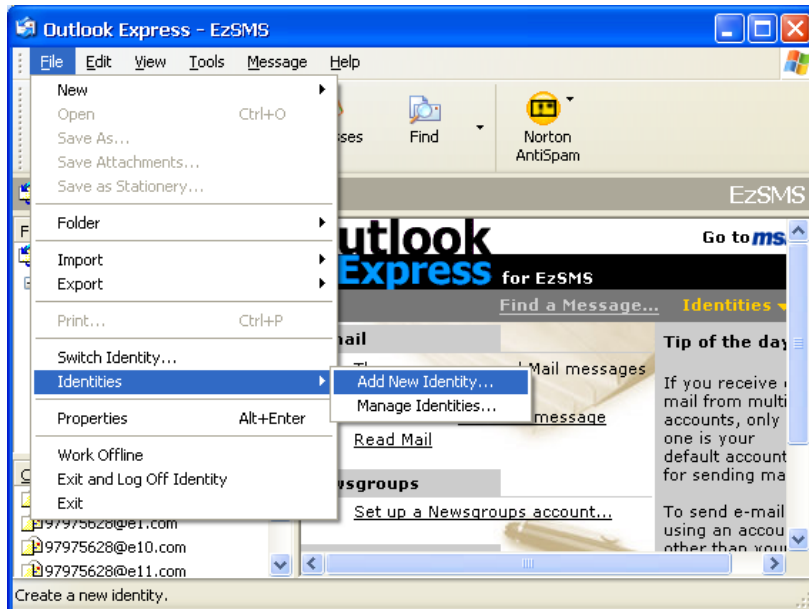
You will be directed to the configuration page.



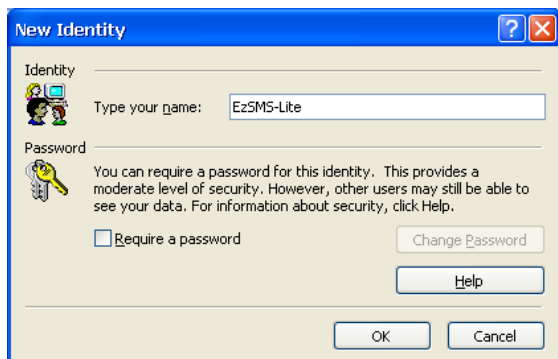
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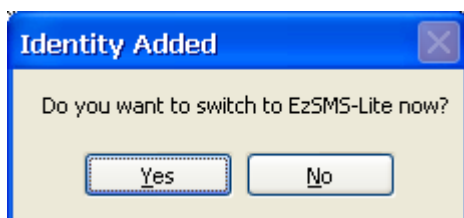
- Setup Outlook Express Email Client



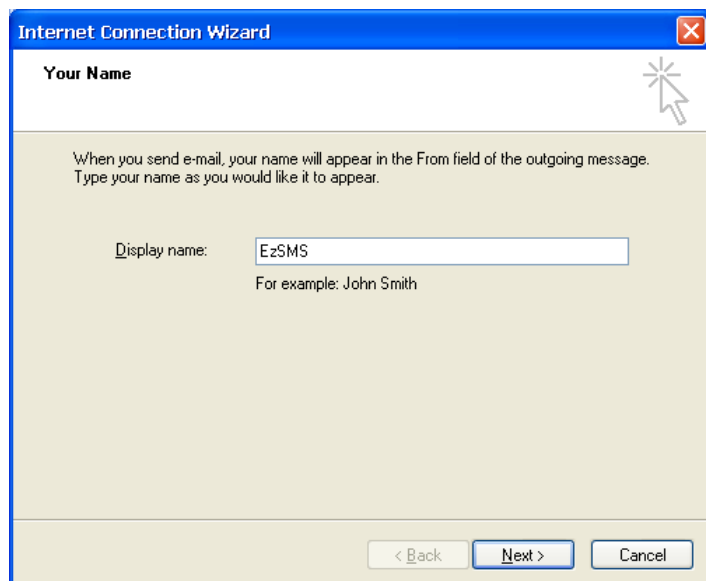
- Enter name for your identity. Example EzSMS-Lite



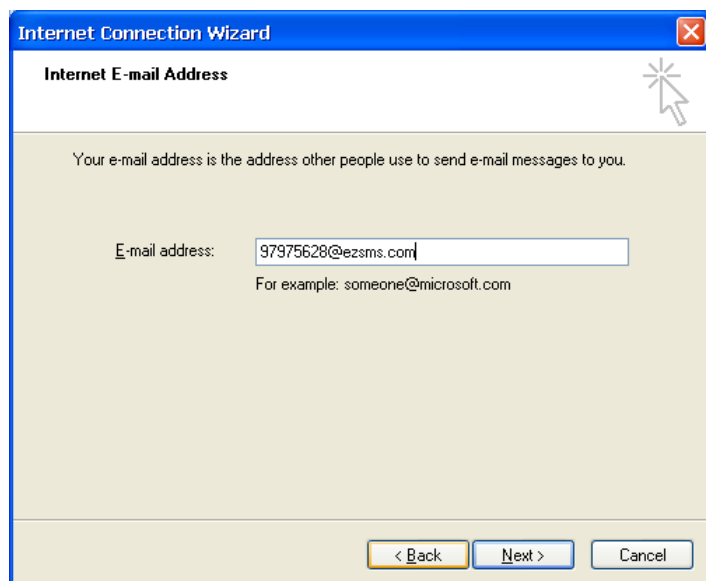
- Select Yes



- Give a name to the display name e.g. EzSMS. Select Next.



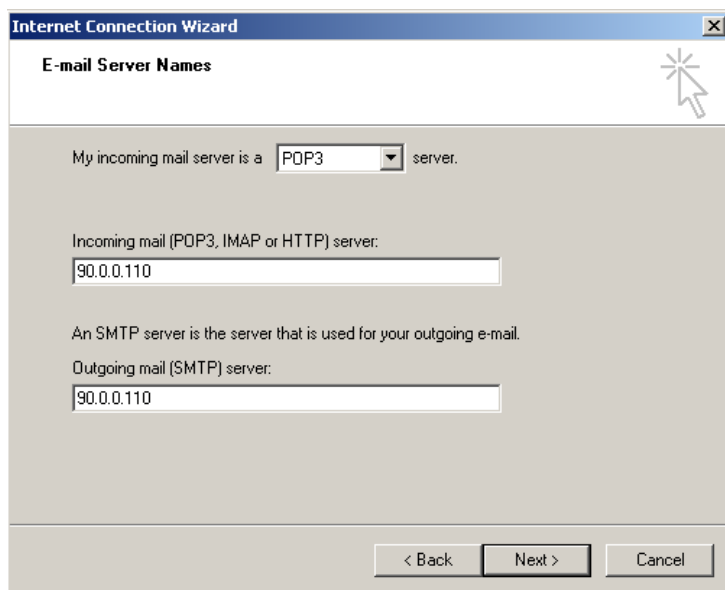
- Give an email address (e.g. 97975628@ezsms.com). Select Next.



- Enter the SMTP server IP address. This is the IP address of EzSMS-Lite. E.g. 90.0.0.110
Select Next.

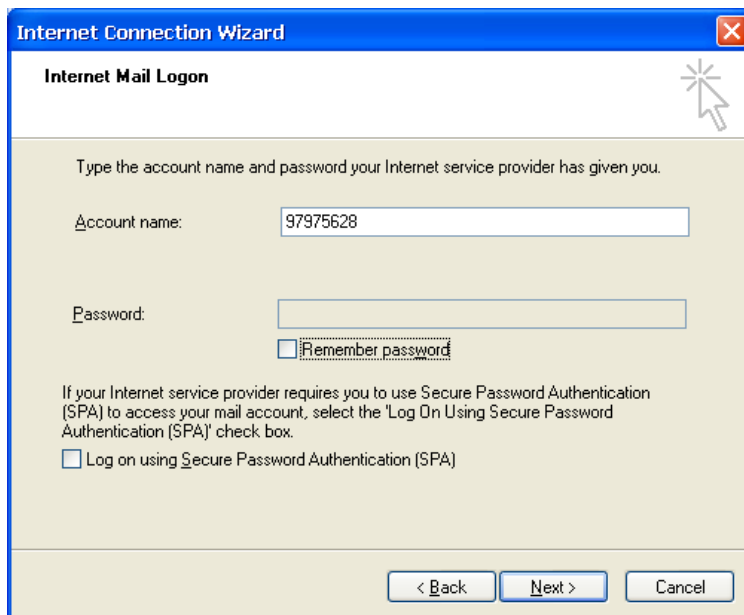
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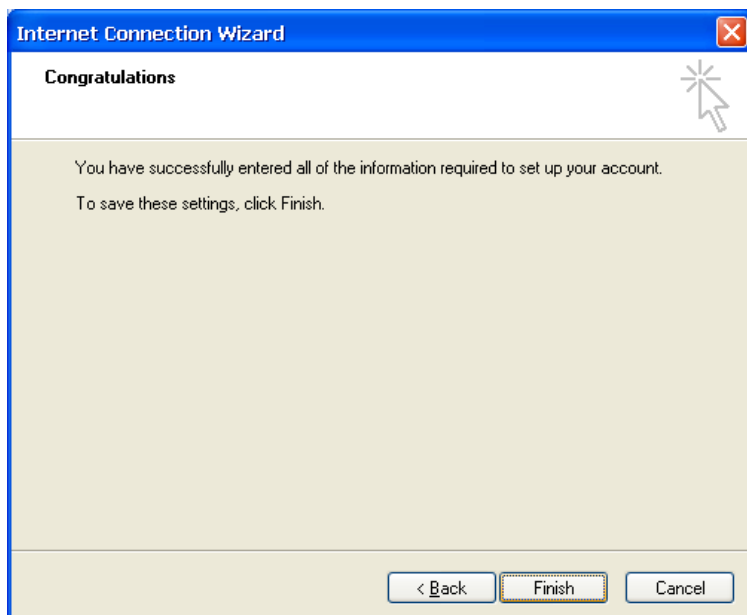
The screenshot shows the 'Internet Connection Wizard' window with the 'E-mail Server Names' tab selected. The window title is 'Internet Connection Wizard'. The main heading is 'E-mail Server Names'. Below the heading, there is a dropdown menu set to 'POP3' with the text 'My incoming mail server is a POP3 server.' Below this, there is a text box for 'Incoming mail (POP3, IMAP or HTTP) server:' containing '90.0.0.110'. Further down, there is a text box for 'Outgoing mail (SMTP) server:' also containing '90.0.0.110'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

- Give a name to your account. You may use your mobile phone number as account name. Password is not necessary. Select Next

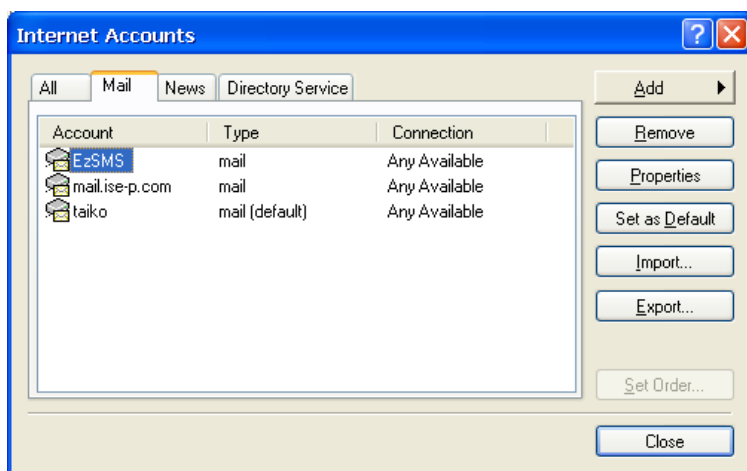


The screenshot shows the 'Internet Connection Wizard' window with the 'Internet Mail Logon' tab selected. The window title is 'Internet Connection Wizard'. The main heading is 'Internet Mail Logon'. Below the heading, there is a text box for 'Account name:' containing '97975628'. Below that is a text box for 'Password:'. There is a checkbox labeled 'Remember password' which is currently unchecked. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

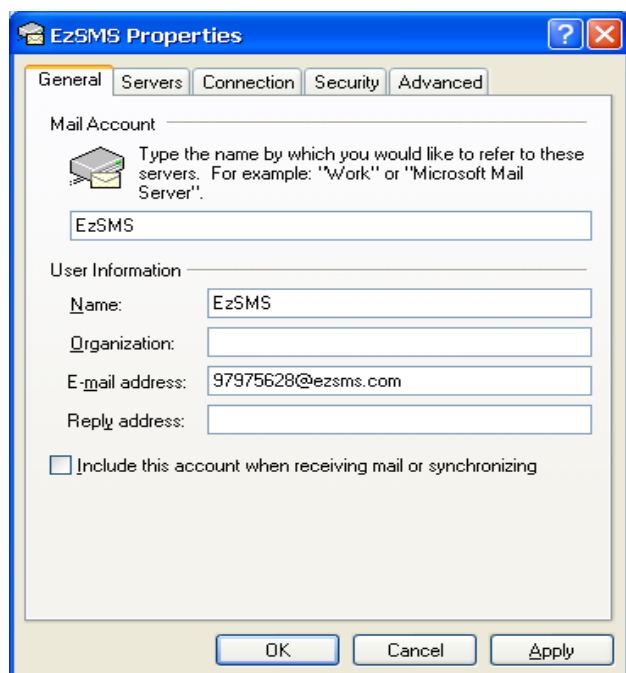
- Click Finish



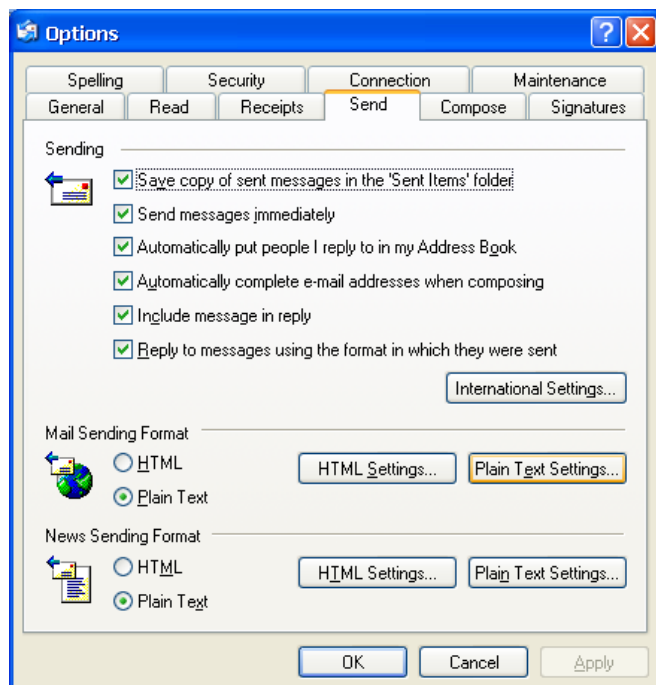
- You may want to change the server name from 90.0.0.110 to EzSMS or any name of your choice. Select the account (now show as 90.0.0.110) and select properties



- Uncheck "Include this account when receiving mail or synchronizing"

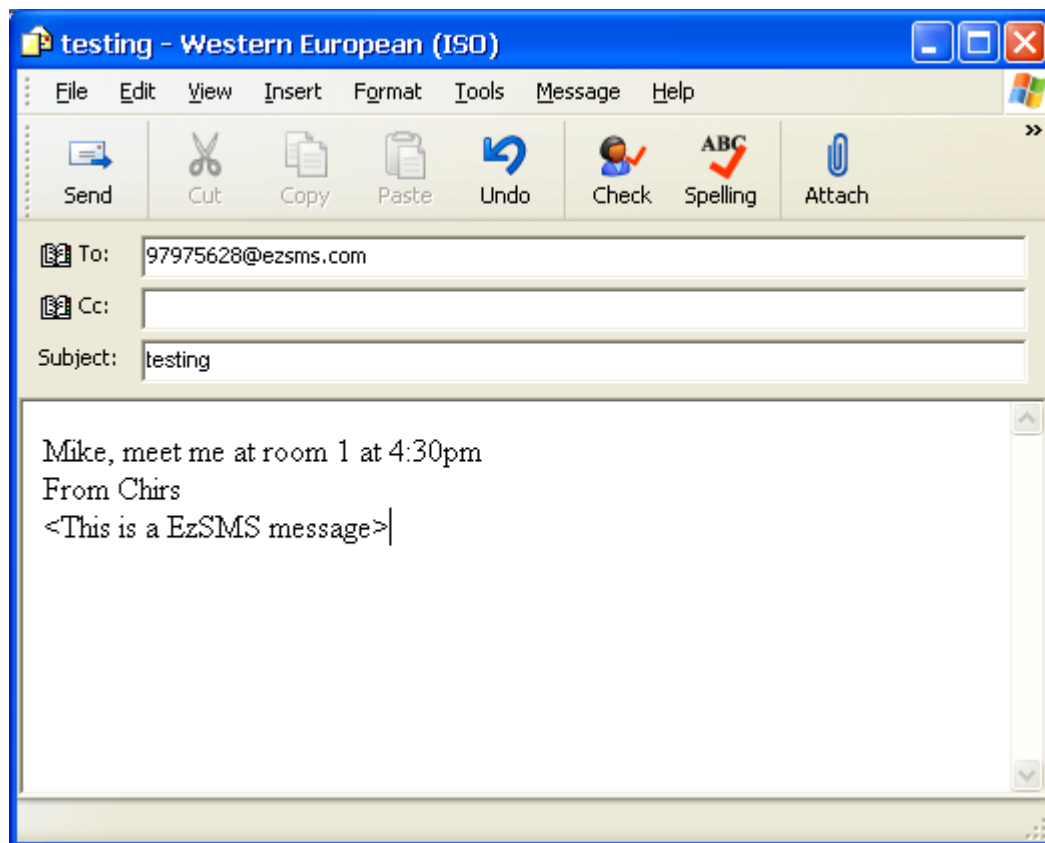


- Set Mail format to Plain Text format (EzSMS-Lite support only plain text format)
 - Go to Tool>Option>Send
 - Click the 'Plain Text' radio button under Mail Sending Format



Sending SMS from email.

- Select create mail



Enter the recipient to receive SMS (e.g. 9876456@ezsms.com)

Enter the subject (not required)

Enter the body content

Finally you can send the message. If not delivered to EzSMS-Lite, it will remain in the Outbox. One delivered to EzSMS-Lite, a copy is saved in your sent folder (this depend whether you have configure to “save a copy in the send folder” under Tool>Option>Send)

Note that mail delivered to EzSMS-Lite does not mean that SMS is received by the receiver mobile phone. Examples, GSM network down, mobile phone switch off, EzSMS-Lite switch off.

6. Troubleshooting

SITUATION: STARTUP

Step 1: AFTER HARDWARE IS CONNECTED, INSERT THE SIM CARD AND POWER ON.

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Step 2: WAIT FOR GSM LED INDICATOR TO START FLASHING SLOWLY BEFORE PROCEED ANY FURTHER

SITUATION: POWER RESET

Step 1: RESET THE GATEWAY ONLY (POWER OFF FOR 1 SECOND BEFORE POWER ON AGAIN)

Step 2: WAIT FOR ABOUT 20 SECONDS FOR MODEM TO GET ONTO GSM NETWORK

FEEDBACK

IF YOU HAVE ANY DOUBTS, PLEASE DO NOT HESITATE TO CONTACT YOUR LOCAL RESELLERS OR ISEP FOR ANSWERS OR SOLUTIONS. YOUR QUERY WILL BE ATTENDED IMMEDIATELY.