



SysManSMS *SERVER*

Installation Guide
Version 7

ENGLISH

NOTE:

See CD-rom *SetupGuides* folder for examples on how to interface SysManSMS Server with other applications

SysManSMS Software License Agreement

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IMPORTANT:

**One SysManSMS Server License KEY can only be used with one installation. Multiple installations will fail!
Use *uninstall* to move a license KEY to another installation**

By purchasing the Software you acknowledge that you have read this agreement, and that you agree to the content of the agreement and its terms, and agree to use the Software in compliance with this agreement. The agreement comes into legal force at the moment when you download this Software from our site or receive it through email or on any data medium from SysMan AS.

Installing a GSM device for SysManSMS Server

STEP-1:

Check support for your GSM device (Updated list, see www.sysman.no/devicesupport.htm)

Manufacture	Device ID/Name	Hardware	Connection	Network
Sierra Wireless	Fastrack Xtend FXT009	Sierra Wireless	Serial/USB	QuadBand
Sierra Wireless	Fastrack Xtend FXT001	Sierra Wireless	Serial/USB	QuadBand
Wavecom	M1306B	Wavecom	Serial	900/1800 Eur/Asian
Wavecom	WMOD2	Wavecom	Serial	900/1800 Eur/Asian
Wavecom	Wismo Quick Q2400A	Wavecom	Serial	900/1800 Eur/Asian
Wavecom	FASTRACK Supreme 10	Wavecom	Serial/USB	QuadBand
Wavecom	FASTRACK Supreme 20	Wavecom	Serial/USB	QuadBand
Wavecom	FASTRACK GO	Wavecom	Serial/USB	QuadBand
Wavecom	FASTRACK XTEND	Wavecom	Serial/USB	QuadBand
Wavecom	Schneider SR2 MOD03	Wavecom	Serial	QuadBand
Multi-Tech	MTCBA-G-UF1	Wavecom	USB	900/1800 Eur/Asian
Multi-Tech	MTCBA-G-UF2	Wavecom	USB	850/1900 American
Multi-Tech	MTCBA-G-UF4	Wavecom	USB	QuadBand
Mobitek	Q24 (SGDK)	Wavecom	Serial/USB	QuadBand
Teltonika	T-ModemCOM	Nokia 12	Serial	900/1800 Eur/Asian
Teltonika	T-ModemCOM	Nokia 12	Serial	850/1900 American
Teltonika	T-ModemUSB	Nokia 12	USB	900/1800 Eur/Asian
Teltonika	T-ModemUSB	Nokia 12	USB	850/1900 American
Teltonika	T-ModemUSB TMU-105	Nokia 12	USB	900/1800 Eur/Asian
Teltonika	T-ModemUSB TMU-106	Nokia 12	USB	900/1800 Eur/Asian
Moxa	OnCell G2110	Moxa	Serial	QuadBand
Nokia	Nokia 30	Nokia 30	Serial	900/1800 Eur/Asian
Nokia	Nokia 31	Nokia 31	Serial	850/1900 American
Siemens	TC35i	Siemens tc35i	Serial	900/1800 Eur/Asian
Falcom	Swing	Falcom A2D	Serial	900/1800 Eur/Asian
Falcom	Samba 55	Siemens tc55	USB	900/1800 Eur/Asian
Falcom	Samba 56	Siemens tc56	USB	850/1900 American
Falcom	Tango 55	Siemens tc55	Serial	900/1800 Eur/Asian
Falcom	Tango 56	Siemens tc56	Serial	900/1800 Eur/Asian
Falcom	Tango 864	Siemens	Serial	850/1900 American

Note:

You can test SysManSMS Server without a local GSM device. This requires access to Internet and a outgoing SMTP server. By selecting COM0: as your GSM communication port, SysManSMS Server will use a Remote GSM Service to send SMS's.

STEP-2:

Make sure you have the manufacture installation documentation ready

STEP-3:

Insert the SIM card into your GSM device. See manufacture installation documentation

It's a good idea to check the SIM card in a mobile phone before inserting it into the device

If you are going to use the PIN security code – make sure you got it right

STEP-4:

If USB device – follow manufacture documentation to install the USB DRIVER (only)

It's important that you only install the usb/modem driver, not any application

After installation – find the COM-port number for the installed device in the Computer Properties

STEP-5:

Connect the GSM device to the selected port (COM or USB)

If device comes with cables, make sure you use the originals

STEP-6:

If external power, connect the power to the device and plug into mains

Normally a light will indicate that the device has power connected

GSM device communication speed should normally work by default

SysManSMS Server will use either 9600 or 115200 baud. If the device does not support one of these, it will not work. To check device speed use *HyperTerminal* or other
To permanent set speed on a GSM device – use the AT+IPR=speed and AT&W commands

IMPORTANT:

Power must be turned OFF while inserting SIM card or while connecting the RS-232/USB cable to the PC

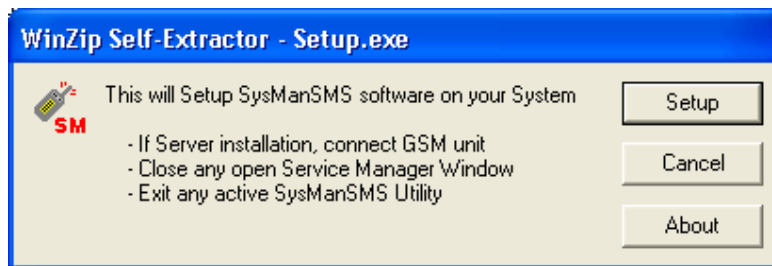
Installing the SysManSMS Server software:

Insert the SysManSMS Server CD, the installation should start automatically.
If not, localize the file "Setup.exe" and double click on the file.

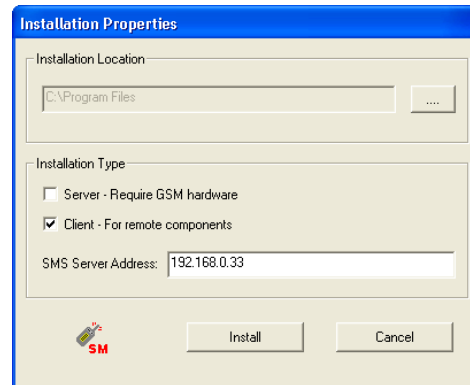
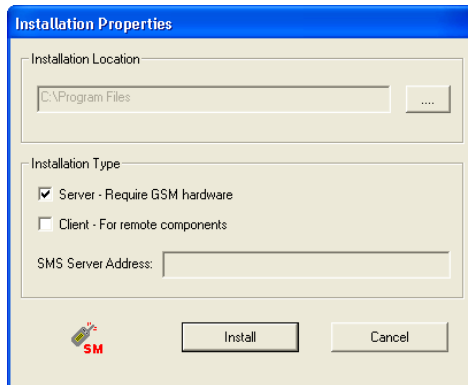
Note:

SysManSMS Server can be used with a lot of applications in your network. SysMan has developed various *Solution Guides* with example of application interface and settings. You will find this documentation in the **DOC** folder of your installation, or at our web page www.sysman.no

Now follow the installation instructions !



Make sure the GSM device is connected and powered – then hit SETUP



Select the location you want the SysManSMS software to be installed on. Default is C:\Program Files

SERVER or CLIENT installation?

SysManSMS is a Server/Client product. If you like to send messages from other PC's in your network, you simply install the software as **Client**, and write the name or IP address of the computer where your SysManSMS Server is running. A client will require minimum 1 SysManSMS Server.

Remote client utilities should now be able to send SMS messages, but if you need to configure any further you can modify the default settings in each clients .ini file.

See the User Guide for more details on how to configure and use clients from a remote machine.

When ready – click "Install"

Note:

You may test SysManSMS Server SEND functionality without a local GSM device connected. By selecting **COM0**: as your GSM Device Port, SysManSMS Server will use a **Remote GSM Service (RGSMS)** for sending.

This function requires access to the Internet and an outgoing SMTP server. This you define in MAIL (SMTP) settings.

When testing is finished, you will have to run SETUP and *Uninstall* the server, then re-run SETUP for a normal GSM Hardware based installation.

Important Fields:

- Company Name:**
- License Number:**
- Device Port:**
- Pin Code:**
- SMS Service Center Number:**

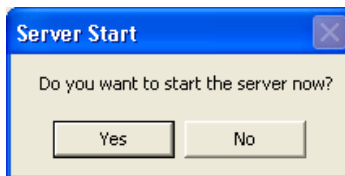
End users company name
Use the license number that came with the product.
Windows COM port where the GSM device are connected.
If PIN code not disabled in SIM card, type the correct SIM card PIN code
Default is "FROM SIM" card; else type the SMS Service Center Number.

Advanced Settings:

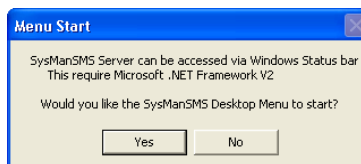
- SMS Storm Control Counter:**
- Send Storm Warning:**
- Watchdog Option Setup:**
- Status Notification:**
- Rights File:**
- Service Monitoring:**
- MAIL (SMTP):**

A value greater than zero will set a max number of SMS a user can receive per date
Send user a last message (flash type) informing about Storm Control Stop
If GSM device with SysManSMS Watchdog, enable it and add mobile numbers to list
Enter mail address and/or Number File to receive server notifications.
If you got ENTERPRISE license (2-way), you can create an access rights list
If you got Service Monitor license, register Windows Services to be monitored
Enable and setup the SMTP server for mail->sms and Remote GSM Service function
Important: No other SMTP Server can exist on same PC/Server

To change installation settings, use SysManSMS Desktop Menu or manually edit SysManSMS.ini file and re-start server.



This installation will install SysManSMS Server service (SysManSMS for GSM) under user "Local System", and will also set the server to automatic start at re-boot.
If you like to change the service settings, answer "NO" to the start server question, then go to SERVICE control panel (administrative tools) and manually change the account settings to fit your needs.



SysManSMS Server comes with a Desktop Menu for your Status Bar. If you like this to be installed now, hit YES. You can anytime later start the SysManSMS Desktop Menu from the Utilities folder.

Installation is now completed !

Note: It may take up to a Minute for the Server to register and become ready

Product Activation

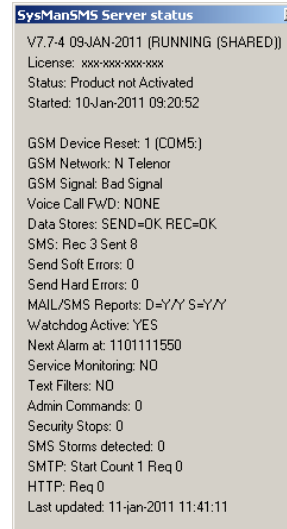
Product activation requires a unique product key for each installation of a product. The activation of the SysManSMS Server will normally be done automatically via the GSM network at installation time.

If the automatic activation should fail due to limited GSM access, you will be notified. A manually activation must then be performed. You must activate the SysManSMS Server within ten days after installation. If product activation is not successfully, the product will terminate.

How to check Product Activation Status?

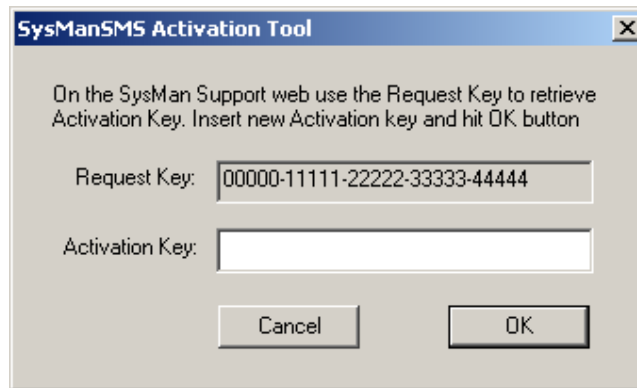
To check product activation status, right-click on the SysManSMS Server desktop menu icon and select Quick Status, or open the SysManSMS Server html status page located in OUTPUT folder.

You should see *Product Activated*, *Product waiting for activation* or *Product not Activated*.



How to manually Activate the Product

To manually activate the product, right click on the SysManSMS Server desktop menu icon and select *Server Settings* and *License Activation*. If you are not using SysManSMS Server Desktop Menu, you may start the SysManSMS_Register.exe from the Utilities Folder:



Copy Request Key and go to SysMan support web:

<http://www.sysman.no/support.htm>

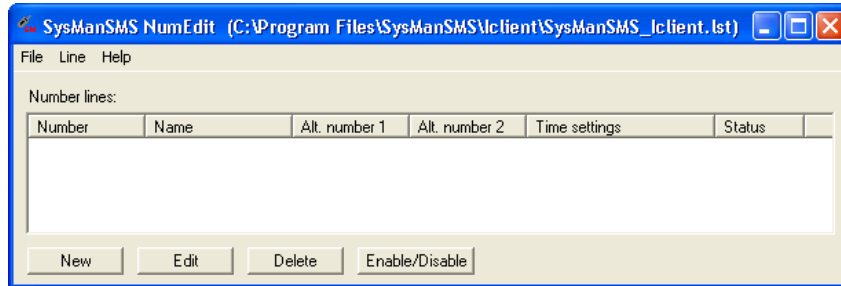
Select the *Product Activation* link and follow the instructions.

As soon as you receive the Activation Key on e-mail, insert it into the Activation Key field and hit OK. SysManSMS Server will now automatically restart to activate.

How to send your first SMS from a text file?

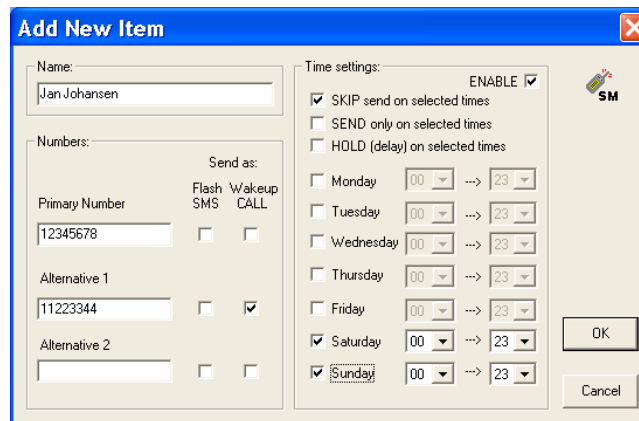
The easiest way to send your first SMS is to put your mobile number into the default Number File, and then drop a text document into the servers INPUT folder. Here are the steps:

Start the SysManSMS_NumEdit from Desktop Menu or direct from Utilities folder



This is the main window of the SysManSMS_NumEdit – Hit the New button

Create an entry for your mobile



This is the EDIT window for creating/editing a number line. Insert your name and mobile number – Hit OK

Save the file into the Iclients folder, with the name SysManSMS_Iclient.lst (default)

With a File browser, now copy the example file ...\SysManSMS\Fclient\Freetext.txt to the ...\SysManSMS\GSMserver\INPUT\ folder.

Note: If you selected a different INPUT folder at installation, you must use this instead.

After some seconds, you should receive the SMS

If not, please take a look at the log file:

... \SysManSMS\GSMserver\OUTPUT\SysManSMS.html



To send text from record formatted files, see User Guide in the DOC folder

How to send SMS from integration client programs?

SysManSMS *Server* uses a Server/Client architecture.
Here are the steps to test two of the command line clients for sending SMS messages to a mobile:

First test the Iclient. With your mobile number already entered in the default number file (see *How to send your first SMS from a file*) open a DOS command window.

```
C:\>cd Program Files\SysManSMS\Iclient
C:\Program Files\SysManSMS\Iclient>SysManSMS_Iclient "This is my second SMS"
```

The Iclient reads your number file and sends your text parameter to the mobile.
Iclient is developed for sending SMS from other applications like HP OpenView, IBM Director, Microsoft SCOM a.o.

Then test your CMDclient. This client gets both your mobile number and your text from the command line. Open a DOS command window.

```
C:\>cd Program Files\SysManSMS\CMDclient
C:\Program Files\SysManSMS\CMDclient>SysManSMS_CMD 98878040 "My third SMS"
Message send OK, delivery status = OK
```

The CMDclient reads your number and text from the parameters, and send it to the mobile.

Note:

A complete desktop client called WINclient can be used for sending from your desktop.
For use of the WINclient – see the User Guide in the DOC's folder

How to receive an SMS and start a program?

If you send an SMS message to the SysManSMS *Server*, this can for example start a program.
One such program is the included SF .EXE in the server's Programs folder.
If an SMS starts SF .EXE, it will return to you the first 160 characters in the file you requested.

Send the following SMS from your mobile to the server:

SF FREETEXT



You should within a few seconds receive the content of the file "Freetext.TXT"



NOTE: If you do not have the ENTERPRISE license, you can still use server internal commands. Try the server command :STAT from your mobile.

Many more mobile commands are available - Please see the User Guide in the DOC folder

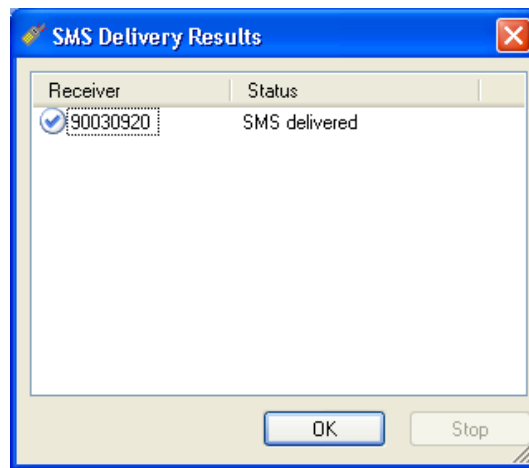
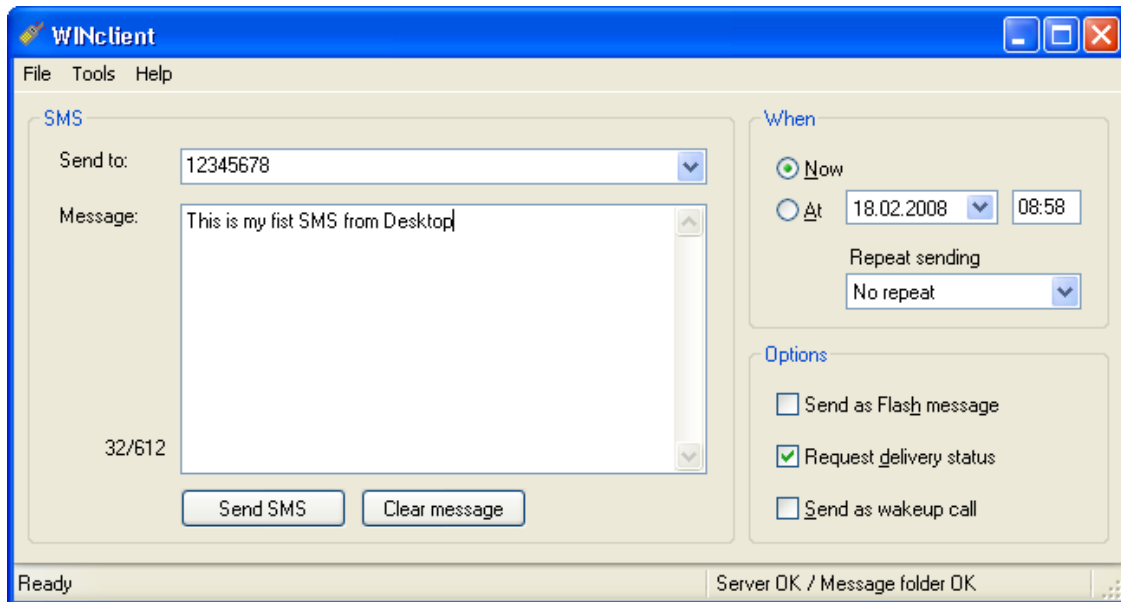
How to send SMS from Desktop using WINclient?

A very powerful client is the SysManSMS_WINclient in the WINclient folder. WINclient is capable of sending SMS in many different ways, including using Number Files located in the Server's Iclient folder. From inside WINclient you got a direct access to the Number File Editor for creating or maintaining Iclient Number Files. You can create repeating message files from WINclient.

Activate WINclient from SysManSMS Desktop Menu or by double-click on the file SysManSMS_WINclient.exe in WINclient folder

NOTE: SysManSMS_WINclient are dependent on minimum Microsoft .NET Framwork V2.0. If this is not installed on the computer you start WINclient you will get a message for the missing component. In this case, install .NET from Options folder on SysManSMS CD, or download from Microsoft.

WINclient will now initialize for the first time and try to find a local SysManSMS Server installation. After some seconds you will see the WINclient main window. You are now ready to send SMS's in many different ways direct from your Windows desktop !



For more information on usage – please see the User Guide in the DOC folder

How to forward MAIL messages to a mobile?

If you at installation enabled the SMTP function, you are ready to test the mail-to-SMS functionality.

IMPORTANT: No other SMTP Server can exist on same PC/Server using port 25 !

To send a mail, simply start Microsoft Outlook or other mail client and send the following:

Mail To: mobilenumber@your_sysmansms_server
Subject: Test mail
Message: This is my first mail to SMS test

mobilenumber = any valid mobile number with or without a country national prefix
or you may send to a Number File created in the Iclient folder.
your_sysmansms_server = the IP address (or DNS name) of the PC that runs the SysMan Server.

After some seconds you should receive the SMS message at the destination mobile.

Advanced mail send modifiers:

- mobilenumber@sysmanserver Send to the specified mobile number
The number can be any number, including international prefixed numbers (“+” in front)
- mobilenumber.F@sysmanserver Send to the specified mobile number using SMS Flash (instant) message type
- mobilenumber.C@sysmanserver Will send to the mobile number, and a delivery Confirmation MAIL is returned
- mobilenumber.S@sysmanserver Will send SUBJECT text only. Apply to both Numbers and Number Files
- mobilenumber.R@sysmanserver Will write senders Reply path information to Send Mail lookup Database file
- MobileNumber.D@smtpserver Will DIAL the specified number (WakeupCall)
- numberfile@sysmanserver Send to all numbers in the NumberFile.lst located in the SysManSMS Iclient folder.
- Step_numberfile@sysmanserver Send with delay between messages to all numbers in step_file.lst in Iclient folder.
- sms@sysmanserver Will take the mobile number from the mail's Subject field

Note: Number File names must be used without the file type extension (.lst)

How to forward SMS messages to a MAIL account?

SysManSMS Server support received SMS messages to be forwarded to a mail address in 3 ways. You can have the Send Mail (SM.EXE) program started by sending a SMS like this:

SM *mymailaccount@mycompany.com* This is the text to send to a mail user

Another more powerful function is to return a SMS to a mail user and let the SysManSMS Server try to resolve the return address automatically.

For the SysManSMS Server to be able resolve a mail address, you must enable the “Save Mail-to-SMS Address Path” function in the SMTP (Mail) setup of the server. The SMS could then just be:

SM This is the text to return to a mail user

If you then in addition make SM.EXE in the *Programs* Folder of the Server your default program (make a copy of SM.EXE to DEFAULT.EXE) you will just have to return any text in your SMS

This is the text to return to a mail user

SysManSMS Server is able to find the mail return address if a mail recently was sent to this mobile. To enable this function – see your SMTP settings.

For more information on the mail->sms->mail functions – see the User Guide or the dedicated TechNote document about Exchange and Outlook usage, in the DOC folder