

DME version 2.0 SP 4 and above

Configuring NowSMS

Installing DME

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Integrating DME with NowSMS



The *Now SMS/MMS Gateway* (in the following called "NowSMS") is an easy-to-install SMS Gateway (and more), which can be used with DME for providing SMS push, provisioning, and messaging to DME clients.

DME clients may receive push notification as a network push (IP push) or as an Apple push (iPhone). However, if the network should fail, the system falls back to using SMS push. This is called Adaptive Push™. Furthermore, SMS push is the only option for provisioning DME over the air to new devices.

NowSMS comes in two flavors: The full Now SMS/MMS Gateway package and the *Now SMS/MMS Lite Gateway* (in the following called "NowSMS Lite").

The gateway routes SMS messages from the DME server to an SMS modem physically attached to the server or to an SMS Center via the Internet (not NowSMS Lite). NowSMS can also be configured to receive self-service text messages from users.

The main differences between the full package and the Lite package are:

- NowSMS Lite only supports modem connections (not SMSC).
- NowSMS Lite only supports one modem connection (no modem pools).

Both versions of Now SMS can be downloaded from the **Now SMS website** <http://www.nowsms.com/>.

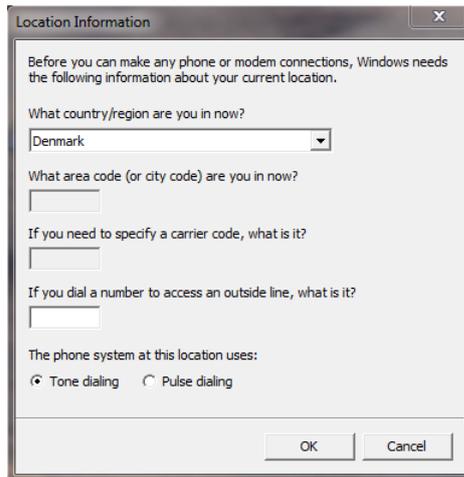
DME supports the following GSM modem: **Siemens MC35i**. Other modems may also work, but have not been tested.

Adding modem driver in Windows

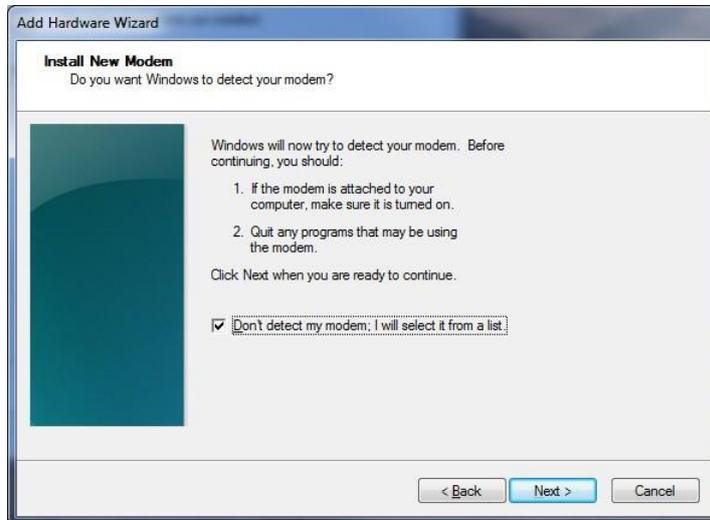
If you want to run NowSMS Lite or you want to use a modem with the full NowSMS, you need to add a driver for the SMS modem you want to use.

To add a modem driver, do the following (shown using Windows XP, but the process is similar on other Windows versions).

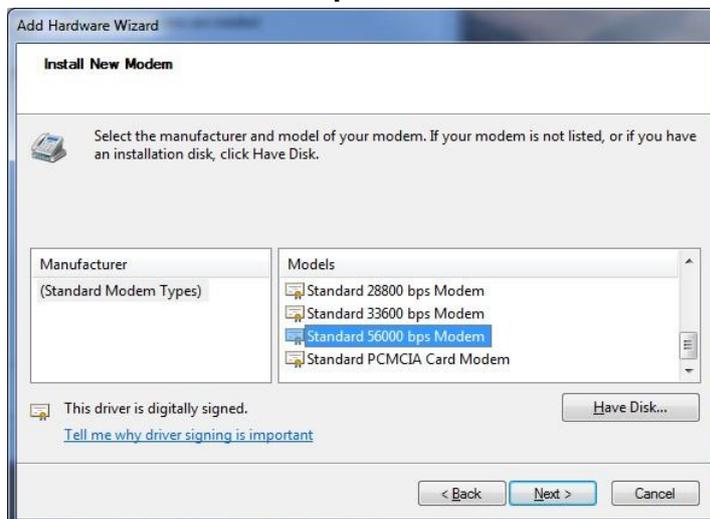
- 1 Click **Start -> Control Panel -> Phone and Modem Options**, and accept the default settings for region (only showed first time).



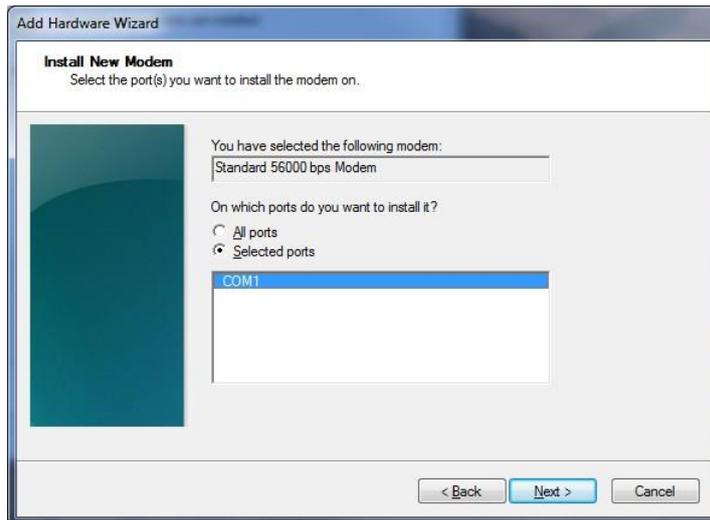
- 2 Select the **Modems** tab, and click **Add**.
- 3 Select **Don't detect my modem; I will select it from a list**.



- 4 Select **Standard 56000 bps Modem**.



- 5 Select the COM port to which the SMS modem is attached.



- 6 Click **Next**, and wait for Windows to install the modem.
7 Click **Finish**.

You are now ready to set up the modem in NowSMS (see **Adding the modem** on page 6) or install NowSMS Lite (see **Installing Now SMS Lite** on page 10).

Installing NowSMS

If you have chosen the full NowSMS package, you can choose to send SMS messages to the clients (and receive them from clients) through one or more physical modems or through an SMSC service.

To set up NowSMS and DME, first install the Now SMS/MMS Gateway as a service on a Windows server. For information about installing NowSMS, see the documentation at the **Now SMS website** <http://www.nowsms.com/>.

The following description assumes that:

- The Now SMS/MMS Gateway has been installed as a service on a Windows server
- A supported GSM modem has been attached to the SMS gateway machine
or
- An account with an SMS Center has been created. The account must include access to the SMSC API.

If you want to use a modem, go to **Integration through a modem** on page 5. If you want to configure a SMSC connection, go to **Integration through an SMSC** on page 8.

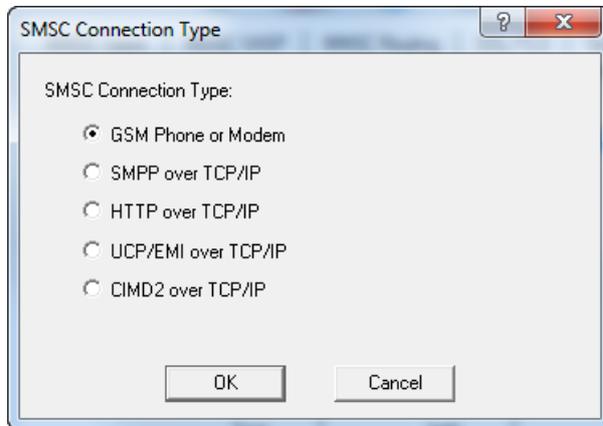
Integration through a modem

To integrate DME with NowSMS through a modem, first attach the modem to the DME server. DME supports the **Siemens MC35i** modem, either connected through the serial port or USB.

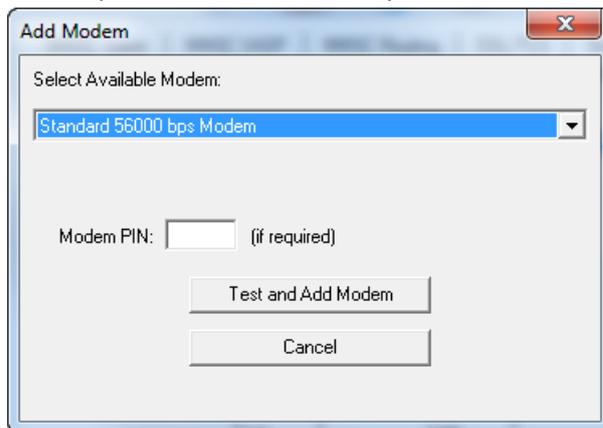
Adding the modem

To add the modem to NowSMS:

- 1 Launch the NowSMS configuration program.
- 2 Choose the **SMSC** tab.
- 3 Click the **Add...** button to add another GSM modem, and select **GSM Phone or Modem**.



- 4 Click **OK**.
- 5 Pick the installed modem, and click **Test and Add Modem**. The modem may also require a PIN code, which you can enter here.



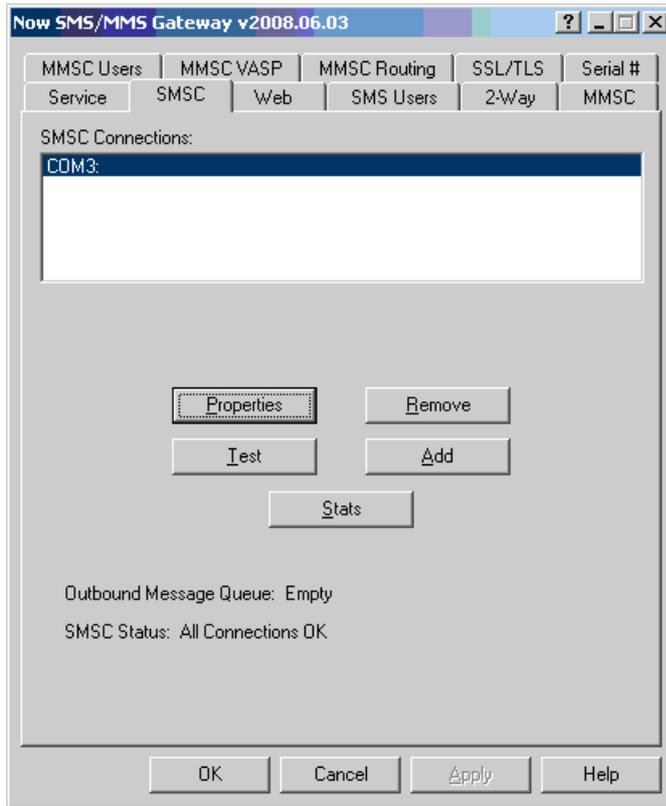
The gateway attempts to initialize the modem and test its ability to send and receive SMS messages. If successful, the modem is added to the list of available modems.

Please see the NowSMS documentation for GSM modem troubleshooting tips.

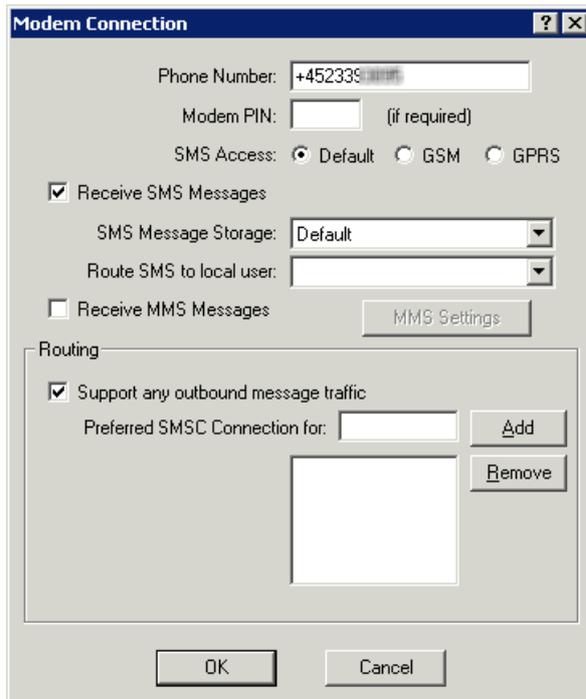
Configuring the modem for NowSMS

After adding the modem, you need to configure it. The settings here must be matched by settings in the DME Web Administration Interface.

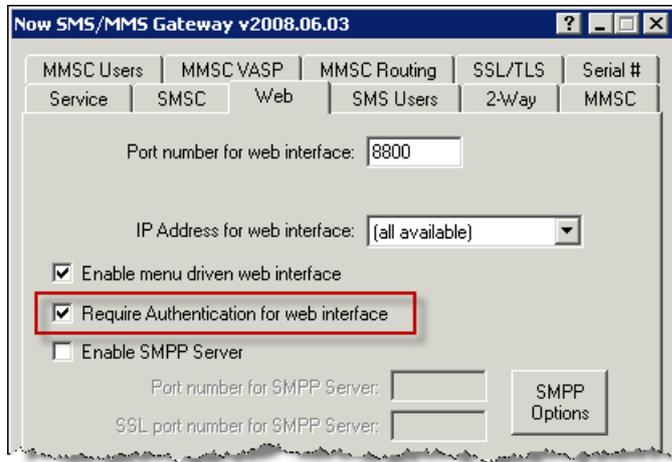
- 1 Launch the NowSMS configuration program.
- 2 Choose the **SMSC** tab, and highlight the modem you just installed.



- 3 Click **Properties**.



- 4 Enter the phone number of the modem's SIM card in the **Phone Number** field. You need to enter this number in DME later as well.
- 5 Select the **Receive SMS Messages** checkbox to support self-service text messages.
- 6 Select the **Support any outbound message traffic** checkbox.
- 7 Click **OK**.
- 8 Choose the **Web** tab.



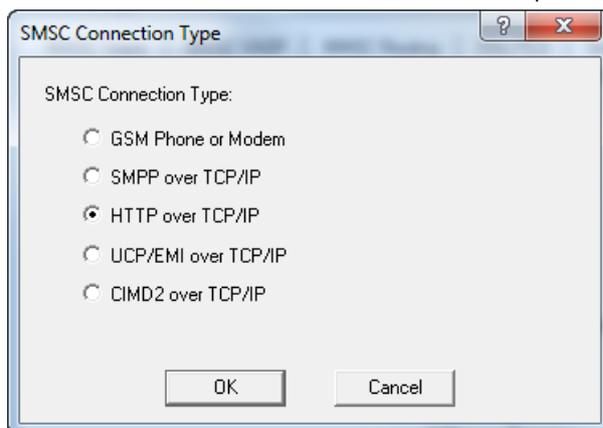
- 9 Select the **Require Authentication for web interface** checkbox.
- 10 Click **Apply**.

You now need to set up 2-way communication with the modem and set up an SMS user. See **2-Way communication** on page 13 and **Adding SMS user** on page 14.

Integration through an SMSC

If you do not want to add a modem and set it up on your server, you can open an account with an SMS Center (SMSC) with API access. To configure NowSMS to use the SMSC instead of a modem, do the following. In the description below, we use the international Clickatell service as an example:

- 1 Launch the NowSMS configuration program.
- 2 Choose the **SMSC** tab.
- 3 Click the **Add...** button to add a connection, and select **HTTP over TCP/IP**.



- 4 Click **OK**.

HTTP Connection properties

After you have created the SMSC connection, you must complete the properties of the new connection in the following dialog:

- 1 Complete the fields with information you have received from your SMSC:

Host Name: api.clickatell.com

Server Type: Custom

URL Template Text:

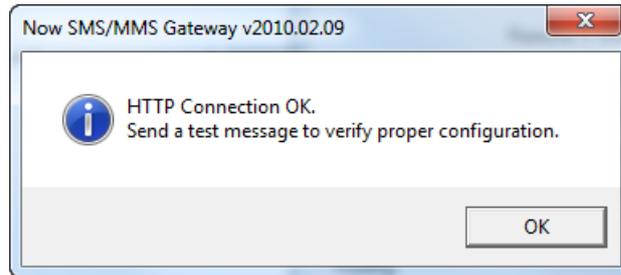
/http/sendmsg?api_id=3269203&user=Excitor&password=XXXXXXX&to=@@PhoneNumber@@&text=@@Text@@ (on one line)

URL Template Binary:

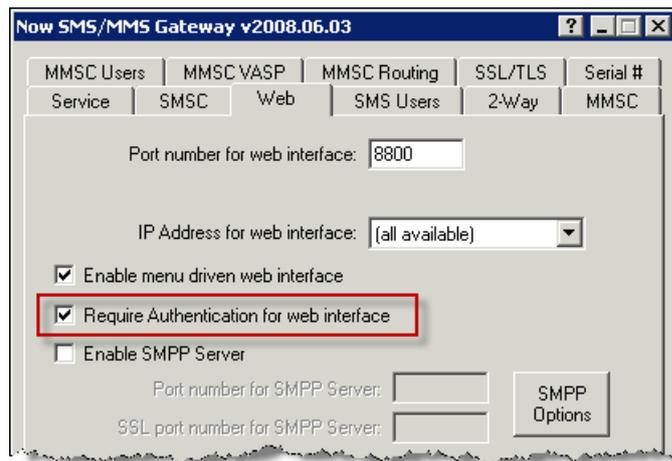
/http/sendmsg?api_id=3269203&user=Excitor&password=XXXXXXX&to=@@PhoneNumber@@&udh=@@UDH@@&text=@@Text@@ (on one line)

- 2 Click **OK**.

NowSMS verifies the information and encourages you to send a test message to verify that you entered the information correctly:



- 3 Click **OK**.
- 4 Choose the **Web** tab.



- 5 Select the **Require Authentication for web interface** checkbox.
- 6 Make sure that the port entered in **Port number for web interface** (default 8800) is open.
- 7 Click **Apply**.

You now need to set up an SMS user. See **Adding SMS user** on page 14.

Installing Now SMS Lite

If you only require one modem, attached directly to the DME server, you should install NowSMS Lite.

To run Now SMS Lite, you need the following in place:

- A Windows computer
- An SMS modem connected to a physical or virtual COM port. Only one modem is supported in the Lite version. DME supports the **Siemens MC35i** modem, either connected through the serial port or USB.

Before installing NowSMS Lite, you need to configure a modem on the Windows computer, as described in the section **Adding modem driver in Windows** on page 3.

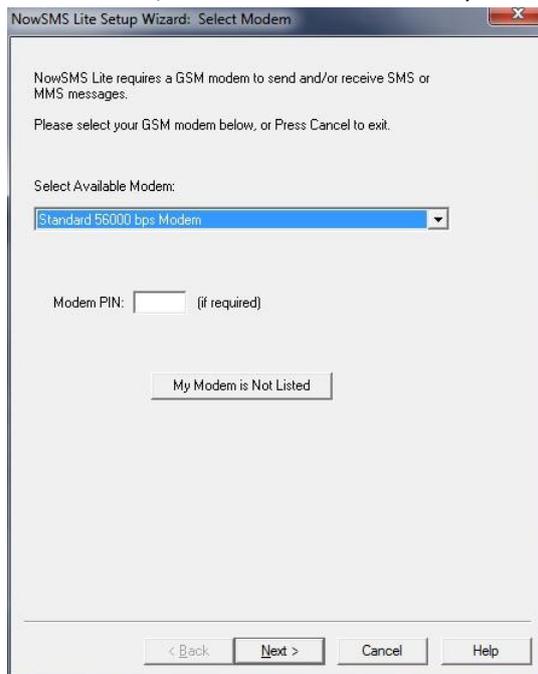
Installing NowSMS Lite software

When you have installed the modem and the modem driver, you can install and configure Now SMS Lite. First download the Now SMS Lite program from the **Now SMS website** <http://www.nowsms.com/>.

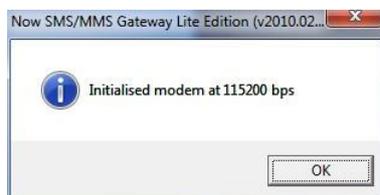
- 1 Execute the Now SMS Lite installation program. The Setup program shows a trial reminder.



- 2 When asked, select the GSM modem you installed previously.



- 3 Click **Next**. Now SMS Lite will initialize the modem.

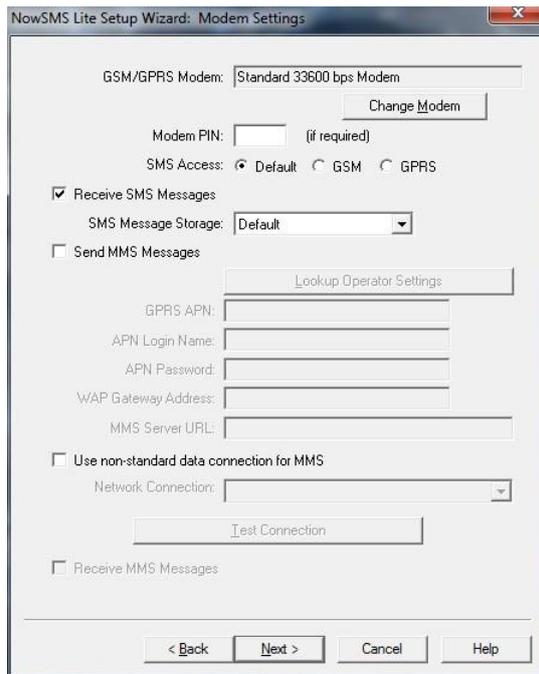


You are now ready to configure the modem.

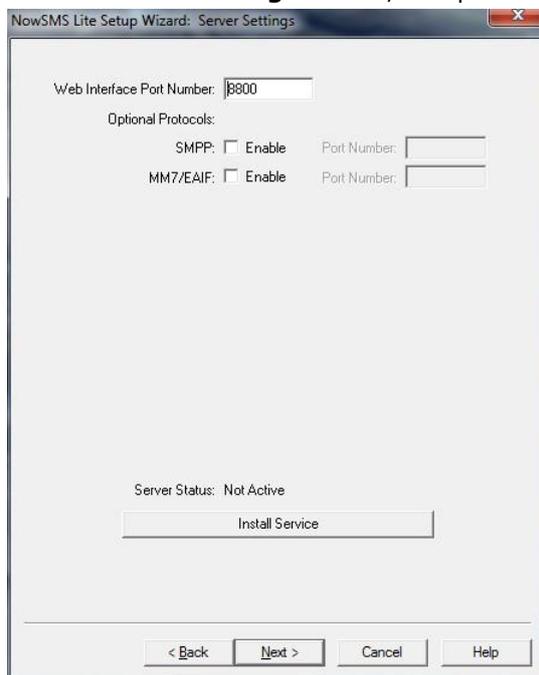
Configuring the modem for NowSMS Lite

After initializing the modem, the NowSMS Lite setup program proceeds to the **Modem Settings** screen.

- 1 Accept the default settings, and click **Next**.



- 2 In the **Server Settings** screen, accept the default settings, and click **Next**.



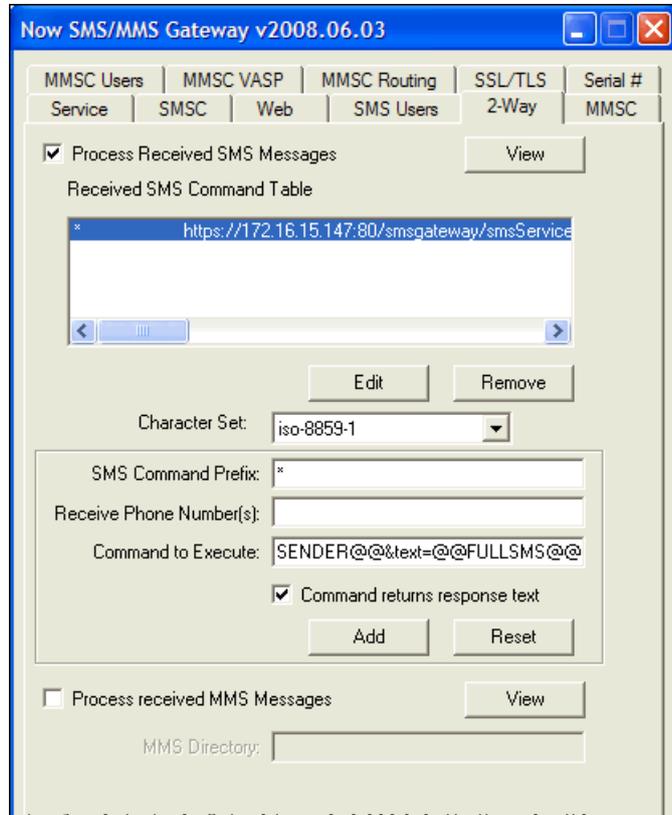
- 3 The configuration is now finished. You can choose to send a test message using the modem.



You now need to set up 2-way communication with the modem and set up an SMS user. See the following sections.

2-Way communication

To set up 2-way communication with the modem, open the **2-Way** tab.



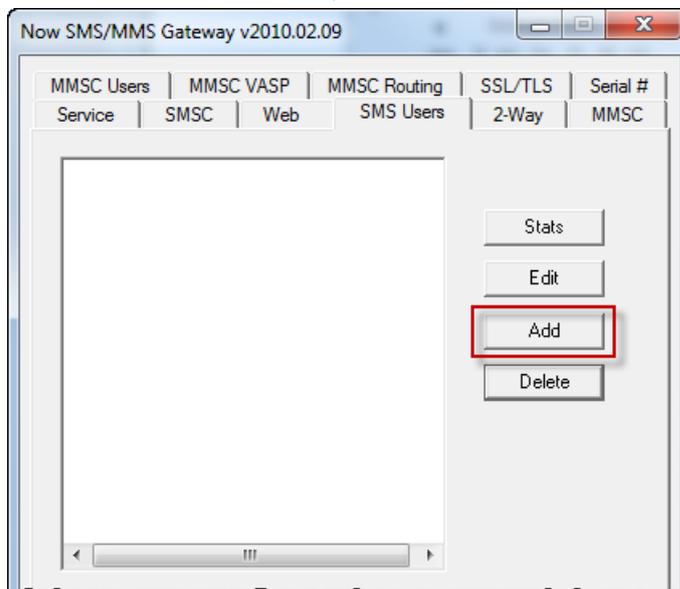
- 1 Select the **Process Received SMS Messages** checkbox.
- 2 Set the **Character Set** field to iso-8859-1.
- 3 Set the **SMS Command Prefix** field to *.
- 4 In the **Command to Execute** field, enter the following URL (as one line, no spaces):
`https://<DMESERVER>:<DME_SERVER_PORT>/msgateway/smsService?phonenummer=@@SENDER@@&text=@@FULLSMS@@`
– where <DMESERVER> is the address for your DME server (as an IP address or fully qualified domain name), and <DME_SERVER_PORT> is the sync port (typically 5011).
Please note that the URL is *case sensitive!*
- 5 If your DME server is set up to require an "SMS gateway POST PIN", add the PIN by appending
`&gateway_pin=<GATEWAY_PIN>`
to the URL above, where <GATEWAY_PIN> is the actual PIN number.
- 6 Select the **Command returns response text** checkbox.
- 7 Click **OK**.

You have now completed the setup of an SMS modem in the NowSMS configuration program, and you can start the service and exit the program. See **Starting the service** on page 15 and **Configuring the SMS gateway in DME** on page 16 for instructions about how to tie this together with DME.

Adding SMS user

First you need to set up an SMS user, no matter if you want to send and receive SMS messages using a modem or an SMSC. This user will be used by DME to authenticate with the NowSMS software.

- 1 Choose the SMS Users tab, and click Add.



- 2 Add the new user with properties like the following:

The 'Edit User' dialog box contains the following fields and options:

- User Name: DME_Server
- Password: *****
- Full Name: SMS User
- Enable Web Login for this user
 - Web Menu Options: All Options Enabled
- Enable SMPP Login for this user
 - Route received messages to user via SMPP
 - Recipient address(es) to route to this user: [Empty field]
 - Limit speed of receiving messages for this account
 - # Messages/# Seconds: [Empty field]
- Enable SMTP Login for this user
- Use Default Message Sending Limits for this user
 - Max messages per day: [Empty field]
 - Max messages per month: [Empty field]
- Enable Credit Balance
 - Credits to add: [Empty field]
- Restrict to IP Address(es): [Empty field]
- Forced Sender Address: [Empty field]

Buttons: OK, Cancel

Note that this dialog looks slightly different in NowSMS Lite.

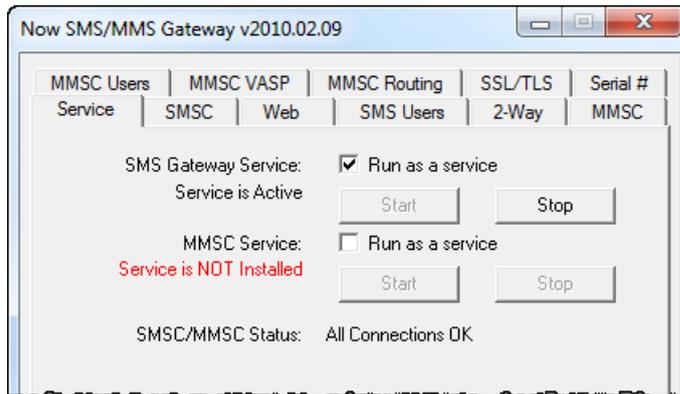
You need to enter this information in DME also to be able to authenticate with the NowSMS software. See **Configuring the SMS gateway in DME** on page 16. By default, DME is set up to authenticate with NowSMS using **DME_Server** as user name and **a1most2secret** as password.

- 3 Click **OK**.

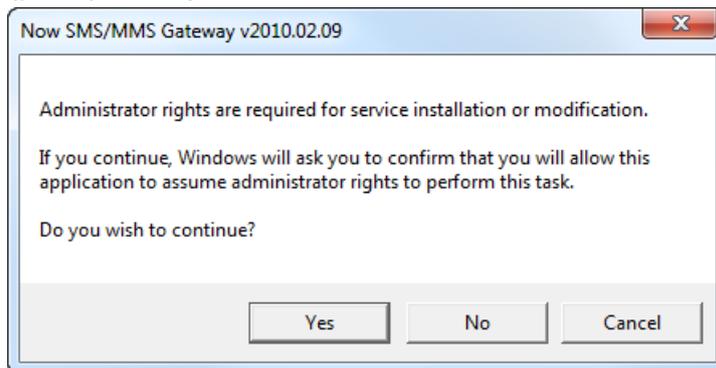
Starting the service

When the modem or SMSC connection is set up, you just need to start the NowSMS service.

- 1 Click the **Service** tab.
- 2 Select the **Run as a service** checkbox for the **SMS Gateway Service**.



- 3 Your operating system may ask you to confirm the choice. If so, click **Yes** (perhaps twice).



- 4 Click **OK** to save your configuration.

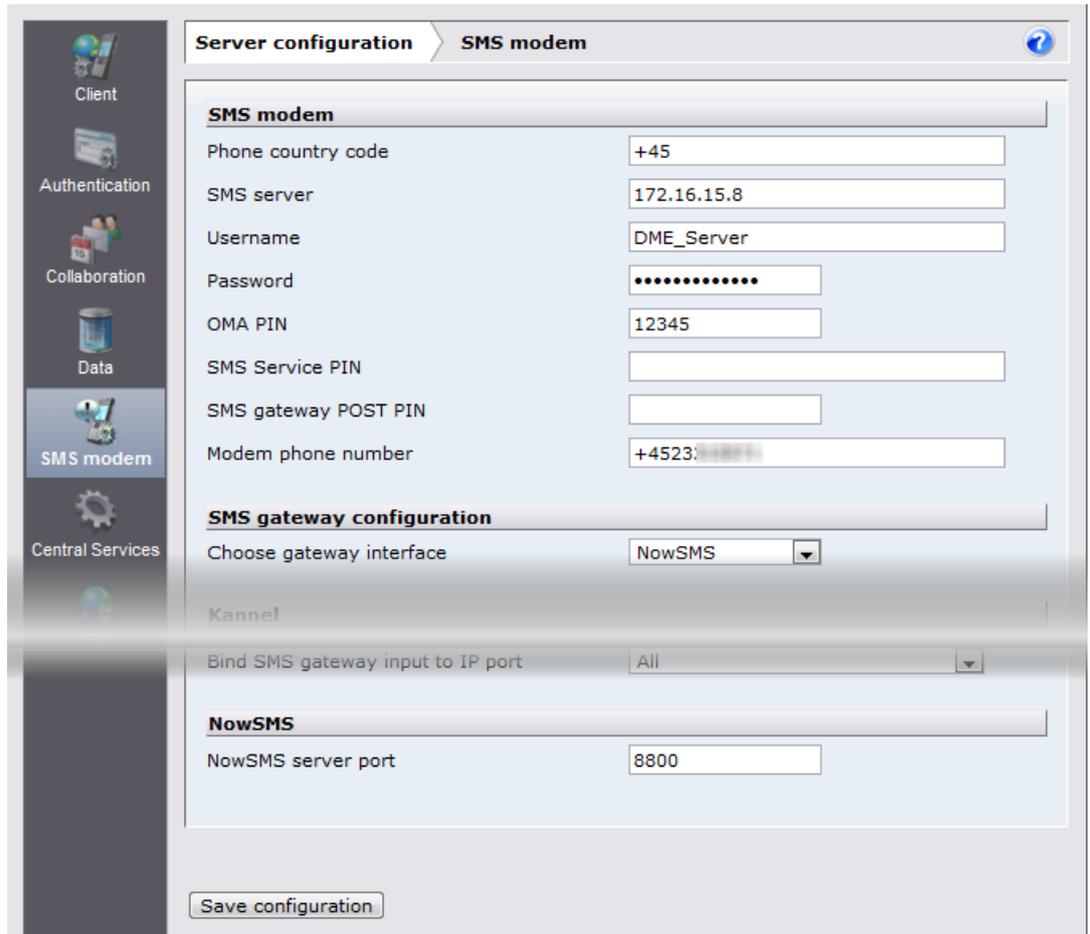
NowSMS is now running as a service on the DME server. All you need to do now is to configure the DME server to find the NowSMS service.

Configuring the SMS gateway in DME

To make the NowSMS gateway and DME work together, you must make a number of settings in the DME Web Administration Interface.

Integrating DME with NowSMS : Configuring the SMS gateway in DME

- 1 In the DME Web Administration Interface, click the **Server** tab.
- 2 Click **SMS modem**.
- 3 The following screen appears:



The screenshot displays the 'Server configuration' interface with the 'SMS modem' tab selected. The interface is divided into three main sections: 'SMS modem', 'SMS gateway configuration', and 'NowSMS'. The 'SMS modem' section includes fields for Phone country code (+45), SMS server (172.16.15.8), Username (DME_Server), Password (masked with dots), OMA PIN (12345), SMS Service PIN, SMS gateway POST PIN, and Modem phone number (+4523:XXXX). The 'SMS gateway configuration' section includes a dropdown for 'Choose gateway interface' (set to NowSMS) and a dropdown for 'Bind SMS gateway input to IP port' (set to All). The 'NowSMS' section includes a field for 'NowSMS server port' (set to 8800). A 'Save configuration' button is located at the bottom of the form.

- 4 In the **SMS gateway configuration** group of fields, select **NowSMS** in the **Use gateway interface** field. This instructs the DME server to adhere to the settings that apply to Now SMS, and not Kannel.
- 5 Note that the settings in the SMS modem group of fields should match the settings you have made above in NowSMS with regard to **Username**, **Password**, **PIN** number(s), and **Modem phone number**. The **SMS server** field should contain the IP address of the NowSMS gateway.
- 6 In the **NowSMS server port** field, set the port number to 8800, which is the default port of the NowSMS gateway web interface.
- 7 Click **Save configuration**.
- 8 Restart the DME server.

The DME server is now configured to use the Now SMS Gateway.