

3 Steps for the installation of mdexfixed.IP



2530HB_mdex-fixed.IP-Manual-ver 3.1 Stand: 01.08.2008

machine-2-machine data exchange

Step 1: Configuration of the mobile access point



To use the **mdex fixed.IP** service the mdex IP server assigns a mobile phone terminal (GPRS router, GPRS modem, mobile handset, etc.) with a fixed IP address. Following this the modem and the correspondingly connected end terminal can be contacted from any Internet access point or from other mobile access points.

In order to facilitate this the mobile end terminal must be re-configured using the relevant operating manual instructions to replace the standard network operator APN with the mdex APN* as the GPRS network access point.

The only parameters which must be configured to facilitate this are:

- the **APN address** (also called access point)
- the **user name** (also called log-in name or device log-in) via which you are logged onto the APN
- and the **user password** (also called codeword or device password) via which you are authenticated by the APN.

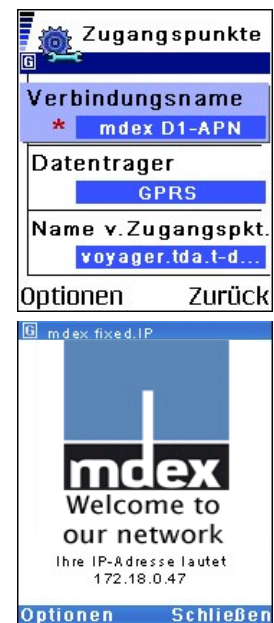
You will find the above information in the order confirmation email sent to you by mdex following receipt of your order. The user name and user password can also be viewed on the my-mdex webpage under "Access points". All other settings are identical to your network operator's standard settings.

Hint: Use your mobile handset to test mdex fixed.IP

The basic functions of a fixed IP address can be tested using a GPRS-enabled mobile handset instead of the combination of a GPRS modem plus end terminal. The advantage of this is that a mobile handset combines the functionality of a GPRS module and an end terminal in one.

This is, however, only possible if the GPRS access point (APN) can be manually configured, which is not the case for all mobile handset models. Such a configuration is carried out as follows:

- The menu item and input field names vary depending on the mobile handset manufacturer. The instructions given here relate to a Nokia 6600. A new access point must be configured in the menu under System / Settings / Connection / Access Points (Options / New Access Point/ Standard Settings). There are no limitations on the connection name selected. The APN address "GPRS access point", "APN" for other mobile handset models is entered under "Name of access point"; the same applies to the user name and the password. Please consult the access data given in your order confirmation email for the relevant information.
- Next establish a GPRS connection to the newly set up APN by entering www.mdex.eu/fixedip.php as a URL in your browser or as a bookmark and confirming establishment of the connection. The following should now appear on your display:



Screen: mdex-welcome-page

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Step 2: Mobile access point connection



Following configuration of the GPRS modem for the mdex APN the GPRS connection must be established as per the relevant modem operating manual instructions.

Should there be any disturbances or downtimes the modem should automatically book itself into mobile phone network again. Please therefore configure your modem in the "auto-reconnect" mode as per the relevant operation manual instructions. Also make sure that your modem does not arbitrarily disconnect the GPRS connection. Deactivate any "idle timeout" or similar function to ensure this.

Hint: Test the connection to the APN with a PC

Attach a PC with Internetbrowser to your mobile modem. If you register the access data correctly, then after connecting to "www.mdex.de/fixedip.php" the mdex welcome-page should appear - displaying your firmly assigned IP address.

Step 3: Set up of Internet access



To be able to access your mdex network securely from an Internet access point an encrypted "openVPN" connection to the mdex server must be established using our dedicated driver. 'This is done as follows:

Install the openVPN client

To do this download the client onto your hard drive by clicking onto the corresponding links in the order confirmation email you will have received from mdex following placement of your order or directly at http://www.mdex.eu/mdex_fixed.ip_openvpn_w32_release.zip and unpack the ZIP file. The client can now be installed one single time (i.e. activate the *install.exe* file). Please note that this may require administrator rights for the computer concerned. openVPN may trigger a certification alert, however this warning can be ignored. The openVPN icon will appear in the bottom righthand corner of the screen in the system tray.

Establish a connection to mdex

To set up a connection to the mdex network click onto the openVPN icon using the right mouse key and select "Connect". You will then be asked to give your user name and password. Please quote the access information given in the order confirmation email you received from mdex following order placement. It may be necessary to deactivate the Internet proxy.

A short confirmation message ("mdex fixed.ip now connected, assigned IP-Address: x.x.x.x") should now appear. This confirms that a connection has been successfully established.

Hint: Test the end-to-end connection using „Ping“

You should be able to "ping" your mobile station from your PC using the command **ping <IP address of your mobile phone modem>**. The IP address can be viewed easily on the mymdex webpage under "Access Points".

You can now access your "system" at any time from the mobile phone network. Test for e.g.

- the runtimes with **ping x.x.x.x -w 10000**
- the GPRS volume in the connection monitor of your mobile station