

machine-2-machine data exchange



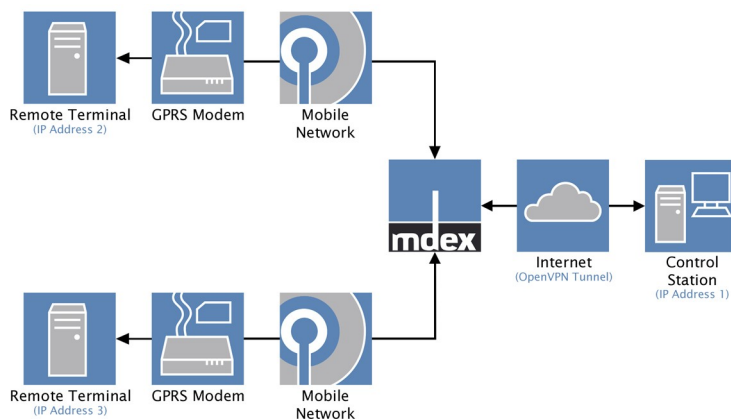
Mobile telephone networks are increasingly being used to collect and transmit process data. Due to technical restrictions within GPRS mobile phone networks it has until now been practically impossible to access a mobile phone modem from the Internet in order to, for example, retrieve status reports or to trigger switching operations. Only the reverse direction was possible: dial-up via GPRS always had to be initiated by the end terminal before communication was possible. Many applications can not – or only with great difficulty – be realised in this manner.

Thanks to the "mdex fixed.IP" service a mobile telephone modem (GPRS router, GPRS modem, mobile handset, etc) is assigned a **permanent fixed IP address** by the mdex IP server. This enables previously authorised participants to contact this modem and the correspondingly connected end terminals from any Internet access point at any time. In this case establishment of a connection can be initiated, for example, from a control centre. Communication of mobile stations among one another is also possible at any time and in any direction.

The **mdex fixed.IP** system consists of

1. one or more GPRS-enabled mobile phone modems, configured with your mdex access data
2. a software driver for the secure VPN access route to the mdex network from the Internet

Each terminal concerned is allocated its own fixed IP address. Bi-directional, secure communication is possible at any time. There are no headaches involving operation and administration of the **mdex fixed.IP** network – we do it for you.



Basic structure of a bi-directional GPRS communication over mdex fixed.IP

mdex fixed.IP is based exclusively on standards. Thus any professional, GPRS-enabled mobile phone modem and/or module is suitable for accessing the mdex network, insofar as it satisfies your application-related requirements.

mdex fixed.IP is currently available for several German mobile telephone networks. You decide which SIM card and which tariff. Mixed applications are also possible.

mdex fixed.IP offers transparency: the connection status of end terminals can be monitored at any time via a personal homepage ("my-mdex").

Application examples:

- Real time remote monitoring of, for e.g. solar or wind energy units
- Frequent low data volume exchanges, for e.g. for weather stations
- Remote control of systems
- Simple data communication with electricity meters, cash points, GPS modules a.o.

Customer benefits:

- **Simple:** All mobile end terminals in your system can now also communicate with each other via GPRS
- **Secure:** Firewall function provides protection from external manipulation by unauthorised users.
- **Cost effective:** Makes it possible to take advantage of network operators' low cost GPRS volume tariffs
- **Independent:** Suitable for both D1 and D2 network SIM cards as well as for the relevant virtual network operators.

Subject to technical alterations



Test **mdex fixed.IP** by using our demo kit consisting of

- two mobile access points and
- Internet access (incl. a preconfigured VPN access point)

free of charge* for 30 days.

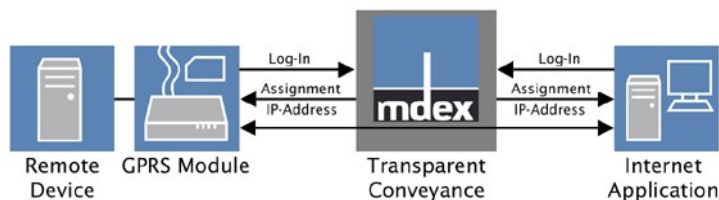
All that is required is a computer and one or two GPRS-enabled mobile telephone modems, each equipped with a SIM card (currently from T-Mobile and its virtual network operators and, in the near future, from Vodafone).

After the 30 day period has expired your access will be terminated. A fixed period, chargeable contract with mdex does not automatically ensue from this test. We accept no liability regarding the availability of the **mdex fixed.IP** demo kit service.

It is also possible to order fixed period contracts for the **mdex fixed.IP** service. For a minimal monthly fee per connection this option will give customers unlimited, highly available use of **mdex fixed.IP** in the T-Mobile and Vodafone networks.

- In order to use the service SIM cards from the network operators in whose networks the service is planned are required. The resulting GPRS traffic is subject to the relevant network operator charges. The mdex fee for use of the service will, however, be waived for 30 days.

Function overview address dispatching and transparent delivery



The **mdex fixed.IP** demo kit can be ordered online at www.mdex.de. All that is required is a valid email address from the customer. Fixed period contracts will also be available for order online soon. These contracts can be terminated on a monthly basis and are invoiced directly via your mobile telephone invoice.

Annual contracts at a preferential rate and subject to invoice are available for ten or more **mdex fixed.IP** connections. These contracts are now available. Please contact our sales department at the address provided below for more information on the related terms and conditions.

Standard Features:

- Two mobile access points and Internet access free of charge for 30 days (the network operator will charge for the GPRS volume generated)
- demo kit currently available for the T-Mobile (Germany) network
- encrypted connection to the mdex centre (openVPN) for Windows32, Linux and other operating systems
- scope of supply includes a preconfigured openVPN client
- Online portal with status overview for active mdex end terminals
- Set up of a closed user group
- can be used world-wide within the GPRS roaming network at the relevant roaming tariffs

Related products:

- **mdex web direct**
simple and secure access from the Web-Browser of PCs to a mobile Webserver (learn more about this at www.mdex.de)
- **mdex mobil contracts**
order m2m optimized mobile contracts directly from mdex (learn more about this at www.mdex.de)

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