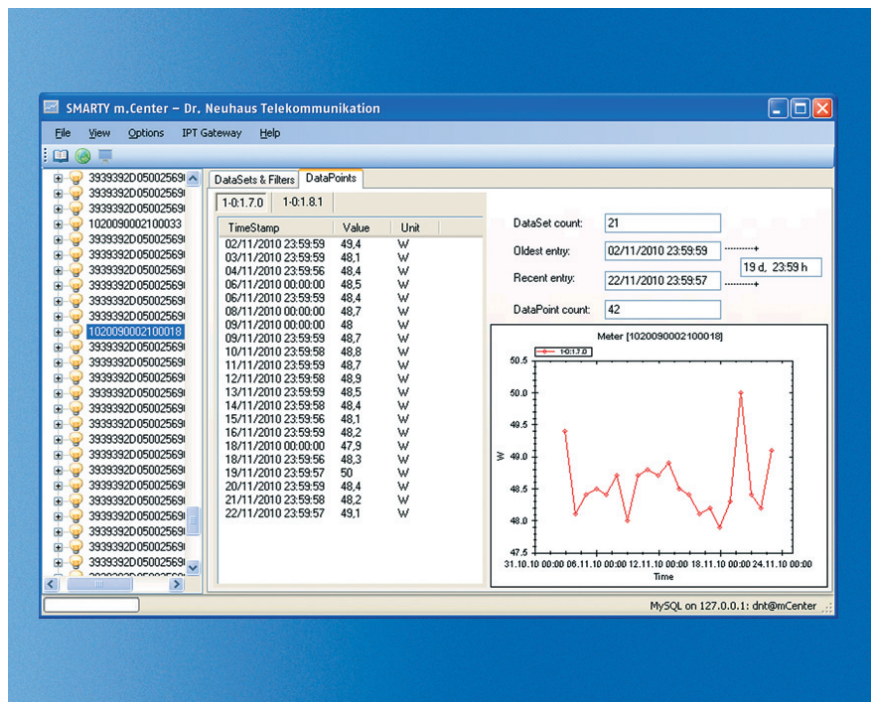


### Benefits:

- Inexpensive set-up of a complete smart-metering system
- Ideal for test installations and small pilot projects
- Simplest integration with electronic household meter and MUC controller
- Lean product, easy to operate
- Supports communication based on FNN standardization (IP telemetry)

### Key Features:

- Data capture using push mode
- Data visualization, incl. meter status and meter reading sequence
- Data processing (validation, export)
- Logging
- Supports IP-T standard; SMARTY m.Center is an "IP-T client"
- Supports all MUC controller variants (GRPS, PLC or DSL)
- Connection of up to 500 MUC controllers



The SMARTY m.Center from Dr. Neuhaus Telekommunikation GmbH is control-center software for smart-metering systems. The product offers a reliable presentation of the meters connected or the MUC controllers and their status and it visualizes the measurement data received in a meter status process.

The units connected can transmit data via GSM/GPRS, via PLC or via a DSL connection. The SMARTY m.Center also allows an analysis of the network structure when data concentrators are used. The product complies with the communication standards, as they are defined in the FNN specification for MUC controllers and EDL meters (IP telemetry).

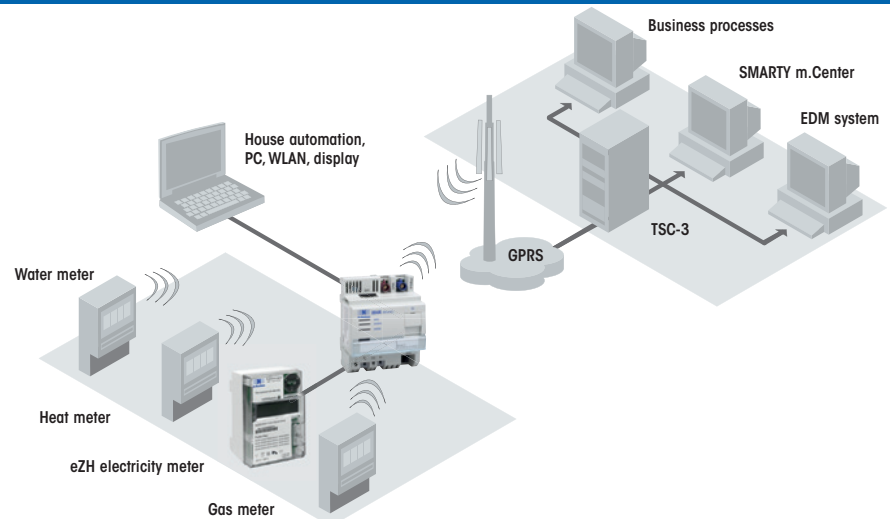
The SMARTY m.Center enables customers to carry out smart-metering trial and pilot projects simply and inexpensively.



### System Components

- MUC controller and meters connected
- Software: TAINY SwitchingCenter
- Software: SMARTY m.Center

### Topology



### Specifications

#### FUNCTIONALITY

<b>Meter data reading</b>	Using MUC controller push mode
<b>Data visualization</b>	Equipment status, meter status, load profile
<b>Data processing</b>	Validation, export (cvs.XML)
<b>Logging</b>	Filter options, incl. acc. to source and time

#### ARCHITECTURE

<b>Application</b>	SMARTY m.Center main application and other components (Microsoft .NET environment)
<b>Database</b>	MySQL 5.1
<b>Communication with MUC controller</b>	Based on IP telemetry protocol (DIN 43863-4). Connection of up to 500 MUC controllers, e.g. using the TAINY SwitchingCenter

#### SYSTEM ENVIRONMENT

<b>Operating system</b>	Windows XP Professional SP2 or SP3
<b>Hardware for database</b>	CPU: $\geq 2$ GHz, dual core; RAM: $\geq 2$ GB; free HDD memory: $\geq 250$ GB
<b>Hardware for m.Center PC</b>	CPU: $\geq 2$ GHz, dual core; RAM: $\geq 2$ GB; free HDD memory: approx. 500 MB (particularly for the .Net framework)

#### MISCELLANEOUS

<b>What's included</b>	SMARTY m.Center components, MySQL database and connector, instruction manual (PDF)
<b>Languages</b>	German, English
<b>Order number</b>	SMARTY m.Center, part no.: 818700

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