

Two-Way Fixed/Mesh Network Solution

Features

UNPARALLELED FLEXIBILITY: The Mi.Net™ AMI system is the most full featured and flexible two-way, fixed network/mesh AMI solution available. The Mi.Net system completely automates smart water, gas, and electric meter readings and billing in its basic form. Supplemental software and hardware modules are available that permit the system to provide a one stop, web based user interface for additional functionality. Utilities are empowered to configure a system that meets the vision of the utility's management team right now.

SYSTEM COMPONENTS: The Mi.Net AMI system facilitates overall improvements in utility management and conservation which result in real revenue generation and improved customer satisfaction. The Mi.Net AMI system is constructed around three major components: the smart meters equipped with meter interface modules or Mi.Nodes, the data collector modules or Mi.Gates and the host server and user interface software or Mi.Host. Utilizing a single, unlicensed 900MHz network to collect data for various commodities provides an economical and cost effective model for implementing "Smart Metering" and AMI. Implementation can start with one commodity, be expanded to two or all three at any time. Additional software/hardware modules permit future expansion of the system to embrace new technology and accommodate future growth.

FUNCTIONALITY: The Mi.Node meter interface unit connects to the local smart meter (Water, Gas, or Electric) and collects data for upload to the system. The Mi.Node unit uploads its data to the system at a predetermined time or "On Demand" through a two way radio frequency link to the Mi.Gate collection unit. After the Mi.Gate collector has received data from the network of Mi.Nodes units assigned to it, this information is sent to the Mi.Host server for processing and storage. Mi.Gate collectors can utilize a number of backhaul methods to the Mi.Host server allowing the utility to optimize existing assets and reduce implementation costs. Standard telephony, wired network connections (Ethernet, fiber, DSL), wireless cellular (GSM, GPRS), and WI-FI connections are all supported.

EASE OF USE: A user friendly, web-based, GUI user interface available on the Mi.Host server allows utilities to easily manage and monitor their entire Mi.Net system. The user interface can be accessed from anywhere via virtually any internet capable device. Individual user rights can easily be configured in order to protect and limit access to the system. The user interface can be used to generate billing reports, view demand graphs, assess and map outages and much more. Mueller Systems can also customize the user interface to meet specific customer needs. For instance, billing data obtained from Mi.Net system can be seamlessly integrated into the utilities' existing billing system software.

SYSTEM NOTIFICATIONS: The Mi.Net system is capable of alerting the user of abnormal conditions such as meter communication failure, water theft, leak detection and a host of other user configurable alerts. These alerts can be viewed while viewing the user interface or notification can be sent via email or other means to a specified user(s).

MODULAR DESIGN: The open architecture of the Mi.Net system eliminates the need for proprietary hardware and guarantees the longevity of the system. New hardware and software can be added easily to the Mi.Net system.



Mi.Net™ AMI Network

SECURITY: Mi.Net technology ensures that all data will remain secure and protected. All data communications are encrypted to provide the highest level of security. Secure connections to the Mi.Host server are employed in addition to user authentication. The Mi.Net fixed network/mesh AMI solution is a secure, reliable, expandable, customizable and cost efficient system that satisfies the smart metering and energy management needs of any size utility.

Materials and Specifications

- Automates all meter readings
- Same infrastructure simultaneously supports Water, Gas or Electric data collection
- Automates all billing
- Automated report generation
- Automated water loss detection
- On demand meter reading allows any meter to be read at any time
- Time of use billing
- Simple account management
- Secure and reliable data communication
- Enables a meter to be temporarily flagged as inactive
- Aids in tamper, theft and leak detection
- FCC and UL Compliant

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