



Automatic Metering to Cash

SmartCommunity.in is an innovative, flexible and powerful platform to manage the affairs of your residential complex through Participation, Visibility and Transparency. The platform provides the execution of the remote meter reading to cash process. The system can be used for remote metering of meters such as electricity, gas or water, calculation of consumption, billing and collection of money against the bills. Additionally both the facility team and residents get online access to this data

AMR TO BILLING

- Remote Meter Reading
- Data Acquisition
- Bill Generation and Dispatch
- Payment Collection

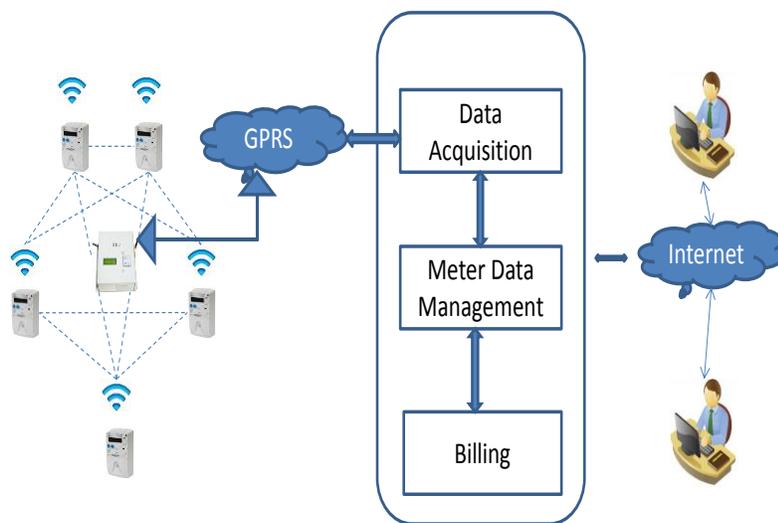
SOLUTION INNOVATION

- Integrated System
- Minimal Manual Intervention
- Online Access to the consumer / Resident

DATA ACQUISITION SYSTEM

- Local Server
- Cloud Server / Remote Server

A large number of residential communities need to collect meter data be it electricity meters, gas meter or water meters. Sometime this information is used for billing a consumer or a resident or sometimes this information is used to monitor the operating performance and sometime both. Traditionally, the meter were read manually hourly, daily or weekly based on the business scenario. This however is effort consuming task and the reliability is low. Technology has now made it possible to read the meters remotely. This is known as AMR (Automatic Meter Reading). Of course, a solution may need to go beyond only meter reading. It needs to provide functionalities for data process such as billing and then payment collected for the bills raised. We call such an integrated solution as 'AMR to Cash'.



Meter & RF MESH

Software as a Service

Users

Smart Meters

When we consider remote metering or AMR, we need to consider electronic meters with communication protocols. We are getting into the realm of smart meters. The smart meters could come with a combination of the following features:

COMMUNICATION OPTIONS

- Wireless such as RF, Zigbee
- Wired

- Communication Module to enable Automatic Meter Reading
- Dual Source Supply
- Load Limit
- Remote Connect / disconnect

PROTOCOLS

- Modbus
- DLMS
- Open Smart Grid
- OPC

Many societies would have existing meters. They often ask whether the existing meters can be used for AMR. It depends on the meter. Some of the meters provide retrofit options while the others don't.

Data Acquisition System

Important thing about AMR is that data acquisition system is as important as smart meters (say navigation system is as important as an advanced aircraft)

ENERGY DATA

- Instantaneous Data
- Interval Data
- Load Survey
- Billing Survey

Billing and Collection

Once the meter data is available it can be used for billing. It is though not very straight forward. The bills are raised on the periodic consumption and not on current values. Thus, such a data processing is required to calculate consumption and generate bills. Billing in itself is a complex process. It can be done simply as an excel spreadsheet but a scalable system require proper enterprise system to execute billing.

Energy Management

AMR or 'remote meter reading' provides excellent mechanism for energy management. On one hand, it provide near real-time data to an organization to view and manage the energy data, it does provide data visibility to an end customer who can take far more effective decisions for energy management.

Please visit www.SmartCommunity.in or write a mail to contact@smartcommunity.in to get information of the solution.