Abstract

Automated Meter reading systems are an invaluable technological advancement that can lead to a better standard of living, owing to the fact that metering has become a part and parcel of our mundane lives. It solves many issues of the traditional meter reading system like need for human resources, efficiency, accuracy, delayed work, unavailability of customer during metering visit by employee, etc. Moreover it is more economical and helps to save energy in a more efficient and effective way. Furthermore it has a very notable advantage of having the ability to predict the energy demands of the future, starting from every household to the entire planet. Automated meter reading systems have been implemented using many different technologies like GSM, ZigBee, PLC, D-SCADA, WiMAX and Hybrid Technologies that comprises of a mixture of the above. This survey paper describes the working models, strengths and
Automated Meter Reading System - A Study

weaknesses of each technology by considering various factors like feasibility, cost, reliability, efficiency, maintenance and user experience. This paper not only surveys the existing Automated Metering systems but also provides an abstract view of developing the most optimal automated meter reading system.

References

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- Tanvir Ahmed, MD Suzan Miah, MD. Manirul Islam, MD. Rakib Uddin, "Automatic Electric Meter Reading System: A Cost Feasible Alternative Approach In Meter Reading For Bangladesh Perspective Using Low-Cost Digital Watt Meter And WIMAX Technology".
Index Terms

- Computer Science
- Automated Systems

Keywords
- AMRS
- Smart Meters
- Zigbee
- GSM
- Scada
- PLC
- WiMax.