Abstract

Automated Meter reading systems are a 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
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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.

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Index Terms

Computer Science
Automated Systems

Keywords

AMRS  Smart Meters  Zigbee  GSM  Scada  PLC  WiMax.