Gas and Water Meter Reading

Overview

Smart gas and water meters will provide a wealth of information that can help utilities and their consumers in many ways – from allowing fully automated billing based on time of use or network status (e.g., with prices rising and falling according to peak and trough usage) to enabling meter-to-appliance communications to help change consumer energy behavior.

In the case of gas and water meters, RF communication is an increasing requirement because of the increasing availability of AMI (advanced metering infrastructure) architecture, with the smart electricity meter often acting as the gateway to the utility for meter reading.

Applicable Industries

- Aerospace
- Construction
- Renewable Energy

Applicable Functions

- Maintenance

Case Studies

Mobile – Based Solution To Integrate Disparate IoT Devices

The quality of water is assessed against several parameters (around16+) using numerous sensors placed at the respective locations. The information generated by the sensors is in a form incomprehensibl ...

IT security for critical infrastructure with versiondog

Flood prevention and sewerage are highly mechanised and automated services that utilise the latest high-performance computerised controllers and IT networks. For a growing number of public water autho ...

Market Size

Estimate A

Close to 1B smart meters will be installed globally by 2020, with revenues from smart meters and grids expected to grow ten-fold from 2014-2021.

Source: IBM Center for Applied Insights

User Viewpoint

Business Value

How does this use case impact an organization's performance?

New flourishing technological developments have simplified and made more accessible applications that can help companies and households cut costs.

Gas and water meters will communicate to the smart meter over the Home Area Network (HAN). With these utilities communicating with each other, the consumer has a heightened understanding of his expenses and how they are related to his concrete energy usage. He can then use this information to adjust his behavior and thus lower his expenses while simultaneously avoiding needlessly wasting energy.

Utilities companies can use the information provided by smart gas and water meters to improve their billing capabilities by gaining a comprehensive perception of consumer behavior.

As a benefit for all stakeholders, communities can avoid wasting electricity and contribute to environmental protection.

Key Performance Indicators

How is the success of the system measured for users and for the business?

OPEX Reduction

Overhead Reduction

Technology Viewpoint

Connectivity

What factors define the connectivity solutions used to provide both device-to-device and device-to-cloud communication?

Home Area Network (HAN)

Implementation Viewpoint

Business & Organizational Challenges

What business challenges could impact deployment?

Smaller and cheaper sensors, used in tandem with elaborate and expansive software allow users to reap significant benefits from smart meters. This must be complemented however by the utilization of advanced security systems to ensure that data cannot be tampered with.

IoT ONE Use Case

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