

FUJITSU Wireless Solutions

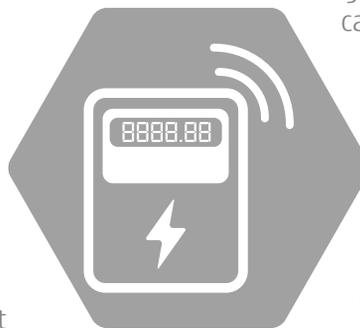
"In the constantly evolving and growing IoT market, customers are looking for upgradable solutions instead of just hardware. This is exactly what we are bringing to the market,"

Dennis van Doorn
Marketing Manager Wireless Solutions

Smart Metering

Conventional smart meters have brought benefits to both consumers and suppliers of electricity, water and gas, Connecting the meters to obtain a reliable data-flow has always been a challenge. Connected devices offer great benefits to utility companies saving tons on monitoring, billing and providing a wealth of information.

- **Electricity** – more reliable and frequent connection provides a better picture of minute-by-minute consumption. IoT connectivity enables new possibilities such as monitoring the electricity grid.
- **Water** – real time metering reduces cost to individual consumers and overall saving in water use. Fast reaction or alarm functionality in case of leakage improves service, reduces waste and lowers costs.
- **Gas** – like other utilities, connected smart metering gives better data on consumption and cost to consumers and utilities alike. As with water, micro-amp power consumption makes batteries a feasible option with long life. Meters can be connected with gas sensors to detect leaks and warn of faulty appliances.



Challenges

Traditional communication solutions for smart meters require the additional cost of a reoccurring network and data fees, hardware such as routers, repeaters and multiple gateways. Density, range and demanding environments with less reception such as basements pose a challenge to the network. Siting millions of meters close together is restricted if the metering solution cannot readily scale.

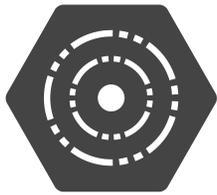
FUJITSU's IoT Connectivity Solutions

The de-centralized wireless communication protocol allows an IoT smart meter to make all decisions locally and co-operatively. This enables the most reliable, optimized, scalable and simple to use connectivity for these devices. By using the IoT Connectivity solution each meter can function as a node and grow the self-organized network offering unlimited scalability. Adding over-the-air (OTA) update capability extends lifetime for hardware, additionally improving security and lowering total cost of ownership.



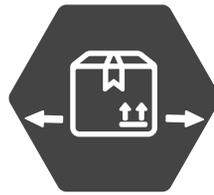
Applications

Fujitsu Components IoT Connectivity Solutions are developed for professional IoT applications, no matter the scale. Applications include Sensors, Asset Management, Smart Metering and Lighting, all of which have very diverse requirements on range, throughput, latency and energy consumption. The solution provides flexibility, fit-for-purpose and, if needed, customization on all these parameters and the hardware too.



Sensors

For a reliable connection with real-time visibility in a highly scalable network. Control and optimize environmental conditions intelligently.



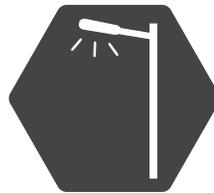
Asset Management

For tracking the locations of various assets. Roll cages, boxes and crates in distributions centers, beds and instruments in hospitals and other valuable corporate assets.



Smart Metering

For connecting an unlimited number of metering points together in a highly scalable network.



Lighting

For intelligent lighting of Smart City or Smart Buildings enabled with Fujitsu's IoT Connectivity Solutions.

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