



SMART WATER METERING

END-TO-END IOT SOLUTION FOR WATER UTILITIES

SOLUTION

ACTUAL, ACCURATE & RELIABLE DATA

- Actual data collected from connected meters & devices "on the fly"
- Configurable frequency of data messages per day, based on the need to obtain metered values (consumption, pressure, temperature etc...) or current status of devices, meters or monitored objects
- Elimination of human errors

DIFFERENT SOURCES

- Collecting, processing & analysing data from various water utility elements through IoT devices (sensors)
- Water meters, water sources, water distribution hydrants, sewage network, pumping stations, other water utility objects and assets

DEVICE MANAGEMENT

- Add, delete, change & configure the IoT devices
- Adding several description and information fields to each device (metadata assignment)
- Add starting consumption value for each connected water meter
- Group, filter and batch operations with all IoT devices on one place

OPERATOR & CONSUMER PORTAL

- Overview of all devices, their actual status, location and last (consumption) values they sent
- Daily water consumption evolution and daily, weekly and monthly averages per consumer
- Grouping of devices to see summaries & identify non revenue water (for example losses per district)

MORE USE CASES BRINGING MULTIPLE BENEFITS

- Use cases applicable for several water utility business and operations segments with benefits for the water utility companies as well as water consumers
- Replacement of manual meter reading, water loss & leaks detection, unauthorized water consumption identification, objects and assets status monitoring and actual consumption info and analysis for consumers
- More actual, accurate and reliable data, increased operational efficiency, possibility to offer new services for consumers and higher customer satisfaction

TECHNOLOGY

CERTIFIED DEVICES

- Various types of certified connected IoT devices with up to 10 years battery life available
- Reading sensors for most used water meters, no need to change installed meters
- Ability to read forward & reverse water flow
- Water level sensors, water flow metering, flooding sensors, fire detection sensors, hatch open/close sensors, people detection sensors, pressure and temperature sensors available
- Simple and fast installation, support during the device lifetime

SIGFOX / LPWAN NETWORK

- Simple network in non-licensed band (868 MHz), low power demand, very good penetration and coverage
- Limited amount of transferred data allowing to communicate with many devices from one base station
- Authentication of communication with each device
- Encrypted communication in ultra narrow frequency bandwidth with frequency hopping – high security and noise resistance

LOTT IOT APPLICATION SOFTWARE

- Multi-tenant and multi-vendor architecture
- Scalable and flexible infrastructure for advanced data analytics
- Modern & responsive web based user interfaces supporting access and consistent look & feel from PC and mobile devices

INTEGRATION & RELIABILITY

INTEGRATION

- Ready for integration with existing systems used by the water utility companies:
 - Customer Information Systems
 - Operations Management / Dispatching Desk systems
- Synchronisation of consumer, devices inventory and consumption data with existing systems
- No changes in usage of the existing assets inventory and customer invoicing processes needed

AVAILABILITY AND RELIABILITY

- Available in private cloud (preferred), on-premises installation possible
- Compliant with security and data privacy standards
- 24x7 monitoring and support provided
- Tailored SLA

