



WHERE INTELLIGENCE MEETS INFRASTRUCTURE®



Mueller Systems and the LoRa Alliance

Innovative Solutions for Smart Cities

By leveraging the Internet of Things (IoT), municipalities can transform their water systems into open communications systems, enabling them to improve the service they offer their customers and increase the connectivity of all city services.

As a member of the LoRa Alliance, Mueller Systems is bringing IoT technology to water infrastructure through its Mi.Net® – Mueller Infrastructure Network for Utilities advanced metering infrastructure system.



LoRa™ Alliance is an open, non-profit association of members that believes the Internet of Things era is now. Its members include multi-national telecommunication companies, equipment manufacturers, system integrators, sensor manufacturers, entrepreneurial start-ups and semiconductors.

Technology for the Emerging Smart City

LoRaWAN – THE NETWORK FOUNDATION OF THE SMART CITY

LoRaWAN is a Low Power Wide Area Network (LPWAN) specification intended for wireless battery operated devices in regional, national or global networks. It is designed to provide features specifically needed to support low-cost, mobile, secure bi-directional communication for the IoT, including Smart City applications. It is optimized for low power consumption and to support large networks with millions of devices. It has innovative features, supports redundant operations, location, low-power and can even run on energy harvesting technologies enabling the mobility and ease of use to IoT.

*According to Semtech, a founding member of the LoRa Alliance and a manufacturer of RF transceivers used in a variety of IoT applications, **out of the 50 billion objects predicted to be connected to the Internet by 2020 fewer than 10% are predicted to use cellular technology.** Telecommunications companies will need long range, high capacity systems to consolidate the fragmented battery operated wireless market for sensor networks, smart cities, smart metering, security systems, smart home, and industrial controls.*



The LoRa Alliance champions Smart City applications in key areas, such as:



LIGHTING



SANITATION



ENERGY



FIRE SECURITY



IRRIGATION



WATER

These applications are developed by industry leaders, including:



enevo



MUELLER SYSTEMS — INNOVATIVE SOLUTIONS FOR SMART CITIES

The Mi.Net System is a communications network that fully automates the meter-reading-to-billing process, linking meters, distribution sites and control devices in a single, highly efficient data network.



The Mi.Net System is flexible and scalable, making it possible for utilities to deploy newer technology in stages, as their needs and budgets allow.

Adopting LoRa standards enables data from the Mi.Net system to travel faster and farther than before, enabling water utilities to more quickly identify and respond to issues that need to be addressed.

420 Remote Disconnect Meter (RDM) is a fully integrated RDM that enables you to remotely connect and disconnect water services through advanced metering infrastructure (AMI) or from the safety of your vehicles.



The Mi.Net System's two-way meter communication and control capabilities provide:

- Increased operational efficiencies
- On-demand reads in seconds, not hours
- Tamper and leak notification
- Improved conservation efforts

“By leveraging the Internet of Things, municipalities can transform their water systems into open communications systems enabling them to improve the service they offer their customers and increase the connectivity of all city services,”

Hassan Ali
Vice President &
General Manager
Mueller Systems



About Mueller Systems.

Where Intelligence Meets Infrastructure®

Mueller Systems offers a full line of residential, fire line and commercial meters, AMR/AMI systems and related products. Mueller Systems provides Smart Metering solutions to optimize the delivery and use of water. Municipalities that supply water need innovative ways to increase efficiencies, reduce costs, conserve water and energy, and improve customer service. Mueller Systems portfolio of metering systems meets that need.

Mueller Systems develops meters and metering systems that are a Smart Move® for the most demanding applications including residential, commercial and fire-line meters, advanced metering infrastructure (AMI)/ automated meter reading (AMR) systems and related products.

We provide utilities with infrastructure technology that enables them to access the intelligent, actionable data needed to increase efficiencies, reduce costs, conserve water and energy, and improve customer service.

Mueller Systems is part of Mueller Water Products, Inc., a leading manufacturer and marketer of products and services used in the transmission, distribution and measurement of water.

Find out how Mueller Systems can help you increase efficiencies, reduce costs, conserve water and energy, and improve customer service by calling us today at 800-323-8584 or visiting www.muellersystems.com.

Mueller Water Products

Smart Move®