



## SMART HYDRANTS, SMARTER CITIES: HOW AN INDUSTRY LEADER AND KORE ARE **REVOLUTIONIZING WATER INFRASTRUCTURE WITH IOT**



### BACKGROUND

A leading North American manufacturer and service provider in the water infrastructure industry has built a strong reputation with a comprehensive portfolio that includes engineered valves, fire hydrants, metering products, and advanced software solutions. Their commitment to innovation is exemplified by their cutting-edge smart hydrant, which combines state-of-the-art pressure monitoring and leak detection technology with IoT (Internet of Things) to optimize water distribution system management.

### CHALLENGE

Municipalities across North America are seeking smarter solutions for managing water distribution, and reliable, secure data connectivity has become a critical challenge. The company needed a robust and flexible cellular solution to ensure the seamless transmission of data from its IoT-enabled smart hydrants to their water intelligence platform. Due to varying network capabilities in different environments, finding the right connectivity solution was essential for the success of their hydrant monitoring system.

### SOLUTION

To address this challenge, the company partnered with KORE to deploy KORE OmniSIM™, which provides reliable global cellular connectivity. KORE OmniSIM ensures that each smart hydrant can communicate real-time data from sensors monitoring pressure and leaks back to the platform, regardless of network conditions. This flexibility enables municipalities to monitor and manage their water distribution infrastructure more effectively, anytime, anywhere.

KORE OmniSIM's ability to dynamically select the best available network helps overcome the limitations of working in diverse geographic regions. With reliable connectivity, the data captured by the smart hydrants is transmitted securely and consistently, providing critical insights for managing water infrastructure, even in hard-to-reach rural areas.

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## RESULTS



### Enhanced Data Visualization & Decision-Making

The integration of KORE OmniSIM with the smart hydrants ensures that valuable data is captured and displayed on the cloud-based water intelligence platform. Municipalities can monitor pressure and leak data in real time, allowing them to make intelligent decisions regarding asset management and system maintenance.



### Proactive Leak Monitoring

Each night, leak monitoring data is automatically transmitted from the smart hydrants to the platform, identifying emerging leaks before they escalate into major issues. This visibility enables municipalities to address pipeline leaks proactively, reducing water loss and improving communication with customers regarding repairs.



### Pressure Monitoring for Preventive Maintenance

The pressure monitoring sensors within the hydrants detect fluctuations in system pressure, even when the main valve is closed. This allows municipalities to identify potential water line leaks or catastrophic breaks early, providing crucial alerts and helping to prevent infrastructure failure.

## CONCLUSION

By leveraging KORE OmniSIM's reliable and flexible connectivity, the company has enhanced the capabilities of its IoT-enabled smart hydrants, providing municipalities with a comprehensive solution for water system management. This success highlights the importance of dependable IoT connectivity in powering intelligent infrastructure and ensuring that communities have access to more efficient, data-driven water distribution systems.





## ABOUT KORE

KORE is a pioneer, leader, and trusted advisor delivering mission critical IoT solutions and services. We empower organizations of all sizes to improve operational and business results by simplifying the complexity of IoT. Our deep IoT knowledge and experience, global reach, purpose-built solutions, and deployment agility accelerate and materially impact our customers' business outcomes.

At KORE, we are committed to leveraging our expertise in IoT connectivity to support environmental sustainability efforts around the globe.

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Install one SIM, one time, and enjoy coverage from wherever with connectivity that lasts the entire lifecycle when you choose KORE OmniSIM™.

Want to learn more? [Discover](#) exactly what an eSIM is, its benefits, and how we leverage this technology with OmniSIM. [Try](#) our eSIM starter kit today!