WATER TANK MONITORING WITH DIGI AND MOTOROLA

SCADA Solutions for Water Utilities

Most water and wastewater utilities continuously rely upon supervisory control and data acquisition systems to support the demanding requirements of their operations in a variety of applications. The right hardware allows SCADA systems to run seamlessly - connecting central operations to remote assets and enhancing visibility, productivity, and safety across all systems and day-to-day operations.

Past Challenges | Reducing The Cost of GWR Compliance

In 2006, the EPA issued the Ground Water Rule (GWR) to improve drinking water quality and provide protection from disease-causing microorganisms. Subsequently, water utilities were then required to collect data from all water tanks on a monthly basis to ensure all sites were in compliance. For smaller utilities this was a minor inconvenience, but for utilities with larger footprints, it required dozens to hundreds of monthly site visits — greatly increasing costs.

Past Solutions | Remote Monitoring Equipment and Software

After the GWR was instituted, many water utilities of all sizes quickly began to procure new monitoring equipment in an effort towards streamlining their data collection and reporting processes. For many, this included installing sensors, cellular routers, and remote terminal units (RTU) at all water storage facilities. A large expense, but one that would recoup itself in a very short period of time — negating the need for an excessive number of truck rolls. Today, many of those components are aging and failing — and subsequently, are in need of replacement.

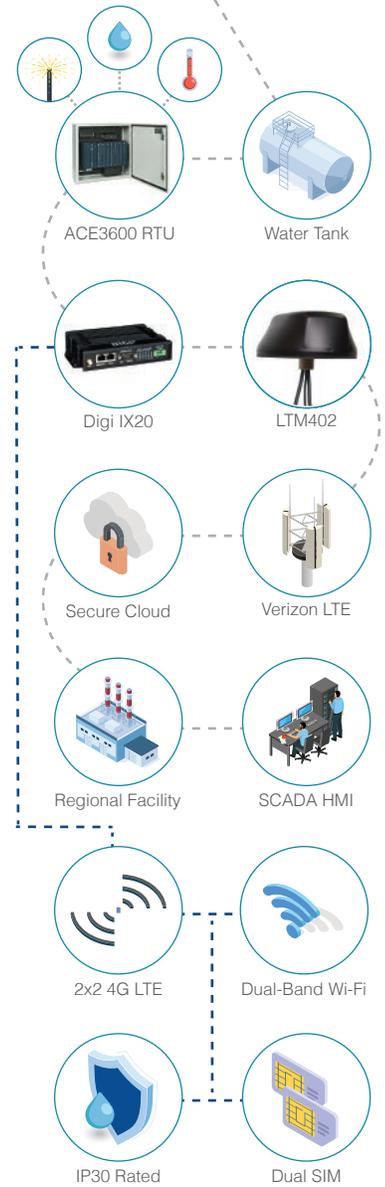### Current Challenges | Aging Devices and Networks

For those utilities with older devices that operate on 2G and 3G networks, it's come time to replace and upgrade the equipment that enables their SCADA systems to function. Many devices may either be inoperable, or only operate using networks that are nearing their final sunset date. And for those that never installed any monitoring equipment when the GWR rolled out, costs have likely accumulated to levels that justify their installation.

Current Solutions | Digi Cellular Routers and Motorola RTUs

Regardless of the challenge your organization is facing, the team at USAT, along with our parent organization MCA, have the solutions you need. The Motorola ACE3600 RTU is a powerful processor that can handle complex applications and connect with your current and future monitoring devices as your organizations' needs evolve. With rugged and cost-effective Digi IX20 cellular routers, you can remotely connect to each RTU and collect sensor data securely over faster more reliable networks like Verizon. And along with Mobile Mark LTM402 antennas we can boost each routers' cellular and Wi-Fi signal strength — ensuring optimal connectivity at every turn.

Our Team | Device Provisioning, Activation, and Installation Services

For over 25 years USAT has provided expert communications solutions to water utilities in need of connectivity for remote monitoring applications. We provide top-tier support for all aspects of your mission-critical communications project. Our engineering team configures, provisions, kits, and ships all your devices hot and ready for immediate use.

ACE3600 RTU · Water Tank · Digi IX20 · LTM402 · Secure Cloud · Verizon LTE · Regional Facility · SCADA HMI · 2x2 4G LTE · Dual-Band Wi-Fi · IP30 Rated · Dual SIM

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