RTO
RealTime Ops

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. Accordingly, water utilities were then required to collect data from all water tanks on a monthly basis to ensure all sites were in compliance. For small utilities this was a minor inconvenience, but for utilities with larger footprints, it required hundreds to thousands of individual monthly site inspections that greatly increased their 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 by negating the need of excessive truck rolls. Today, many of those components are aging and failing — and subsequently, are in need of replacement.
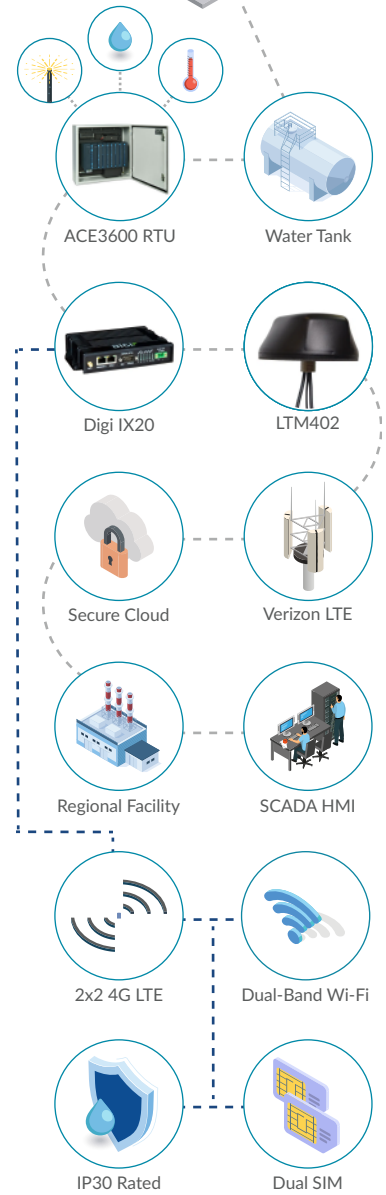
Current Challenges | Aging Devices and Networks

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 on 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 challenges your utility clients are facing, the team at RTO, along with our partner MCA, have the SCADA connectivity solutions they need. Our Motorola ACE3600 RTUs are powerful processors capable of handling complex applications and connecting to your clients' current and future monitoring devices as their needs evolve. With rugged and cost-effective Digi IX20 cellular routers, you can remotely connect with each RTU and collect sensor data securely over the fastest and most reliable networks like Verizon. And 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 RTO has provided expert communications solutions to business that serve the remote monitoring needs of water and waste utilities. We provide top-tier support for every aspect of your mission-critical communications projects. Our engineering team configures, provisions, kits, and ships all your devices hot and ready for immediate use.

IoT Router:	Cloud Software:	RTU:	IoT Antenna:	Carrier Network:
Digi IX20	**Digi RM®**	**ACE3600**	**LTM402**	**Verizon**

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

CONTACT RTO TO ENGINEER YOUR CONNECTIVITY SOLUTION TODAY

RTO

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