Cellular Networking Solutions for Utilities



Building Network Resiliency: LTE and 5G Solutions for Public and Private Utilities

Utility companies, whether within the power, gas, oil, water, or waste sectors, have extensive opportunities to enhance operational efficiency and customer service via infrastructure upgrades that can incorporate a greater number of smart devices and automated systems. By embracing 4G and 5G broadband connectivity solutions, they can optimize data utilization and elevate communication standards. Our cloud-based solutions and wireless edge devices, unlock the potential of both public and private cellular technologies, ensuring secure connections for power grids, smart meters, personnel, field service vehicles, critical substations, and more. Below we've highlighted some of the most popular solutions our team has delivered to local, regional, and national utility clients from coast to coast.



Remote Sites & Substations

In remote areas, wired connectivity may not be readily accessible. Sites such as substations, pipelines, and remote wind farms can employ versatile LTE solutions to maintain 24/7 connectivity for staff, offices, and IoT devices.



Field Service Vehicles

Installing and maintaining utility lines requires specialized field services. Vehicles equipped with mobile routers provides essential connectivity to ensure continuous communications between line workers, dispatchers, and AVL/GPS/CAD systems.



Private Cellular Networks

Establishing a PLTE network for utility operations yields substantial advantages. Full network control enables superior security, eliminates congestion, enhances performance, ensures QoS, and reduces expenses.



Security Communications

The continuous monitoring and security of key facilities and remote assets is vital. Connect in real-time to surveillance cameras, sensors, and drones, via wireless edge routers, to swiftly inspect critical sites.



Edge Computing

Utilities can achieve near real-time system and infrastructure visibility by decentralizing certain application workloads and computing to the network's edge. Edge routers can connect meters, sensors, and more.



Long Range Connectivity

LPWA and LoRa technologies help utilities interconnect distributed assets over extensive distances providing a low-power, high-reach solution, ensuring seamless communication across vast utility footprints.

The Team | Device Provisioning, Activation, and Installation Services

For the last 27 years, the cellular networking solutions team at MCA has provided expert connectivity solutions to public and private organizations in need of top-of-the-line connectivity devices and platforms to manage their vital communications infrastructure. We provide top-tier support for all aspects of our customers mission and business-critical connectivity projects. Our technicians and installation teams assess your needs and engineer customized solutions to outfit your organization with the hardware and software required to fit your exacting needs.

CONTACT US TO MAKE YOUR WORKPLACE MORE SAFE, SECURE, & EFFICIENT

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