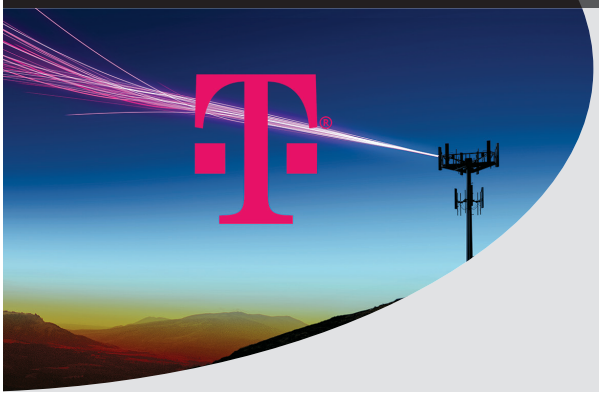
Automated Logic

CASE STUDY



T-Mobile

AUTOMATED LOGIC PARTNERS WITH T-MOBILE TO STANDARDIZE, SCALE, AND DEPLOY BUILDING AUTOMATION SYSTEMS NATIONALLY TO ENSURE UPTIME AND LONG-TERM SUSTAINABILITY

THE CHALLENGE

- *Deploy a "single pane of glass" for centralized monitoring, trending, and alarming of T-Mobile's mechanical HVAC and electrical systems*
- *Deliver a standardized and scalable BAS solution across T-Mobile's nationwide portfolio of telecom sites that is capable of accommodating rapid growth*
- *Help maintain uptime of data center and telecom facilities critical to providing on-demand phone and internet access to over 100 million customers*
- *Provide energy-efficient, environmentally-friendlier solutions to help control costs and meet T-Mobile's commitment to sustainability*

Automated Logic's WebCTRL® system gives T-Mobile the ability to see and understand everything that's happening in their facilities... nationwide.

Project Objectives

T-Mobile operates one of the largest 5G networks in the United States and is one of the nation's fastest growing wireless carriers, adding 1.3 million customers in Q1 2022. Keeping the company's nationwide system of data center and telecom facilities up and running for T-Mobile's rapidly expanding base of over 100 million active users—who require ever-increasing amounts of uninterrupted, high-volume bandwidth—is crucial.

In 2014, T-Mobile sought a strategic partner to implement a standardized, fully scalable building automation system (BAS) that could unify and fully integrate with the hundreds of sites across the company's rapidly growing critical portfolio of telecom facilities and infrastructure. In addition to helping ensure uptime, the new BAS would need to enhance energy efficiency and environmental sustainability—and provide system operators with a "single pane of glass" for centralized monitoring, trending, and alarming of T-Mobile's mechanical HVAC and electrical systems.

> "Our partnership with Automated Logic has helped T-Mobile transform aging HVAC equipment into a modern, energy-efficient system while giving us the insight and control we need to ensure reliable operation at all times."
>
> – Chad Wilkerson
> Director of Sustainability and Infrastructure Sourcing
> T-Mobile

The Solution

The established telecommunications expertise of **Automated Logic's Strategic Accounts** group, along with its dedicated execution team and 24x7x365 call center, made it the ideal candidate to meet the challenge.

Following an in-depth selection process in 2014, Automated Logic – Strategic Accounts was selected as the standard national BAS contractor for T-Mobile's critical facilities portfolio, and began helping the mobile carrier develop its basis of design and standardize and implement its systems and processes across its sites. Automated Logic then installed its building automation solutions in T-Mobile's hundreds of data centers, mobile telecom switching offices (MTSO), distributed antennae sites (DAS), call centers, commercial office buildings, and signature stores.

Tying together hundreds of thousands of points, the new system leverages Automated Logic's WebCTRL® system to provide T-Mobile with a "single pane of glass" for centralized monitoring, trending, and alarming of their mechanical HVAC and electrical systems. Bolstered by the standardization Automated Logic delivers across the company's building management system portfolio, this has led to substantial system-wide increases in reliability, global scalability, consistency across installations, and energy and operational efficiencies.

Today, Automated Logic continues to manage and monitor over 145 T-Mobile sites and provides the mobile carrier with a single scalable, repeatable, "deploy anywhere" solution that can get new critical facilities up and running faster—and keep them operating more reliably and cost-effectively—than was previously possible.

Synopsis

T-Mobile operates in a technologically demanding and highly competitive business environment and is always in the public eye. Both the company and its customers have zero tolerance for downtime. A technologically sophisticated automation system for controlling and monitoring T-Mobile's critical facilities nationwide is essential to providing and maintaining that connectivity, and the carrier began a search for a long-term partner, eventually narrowing it down to four finalists.

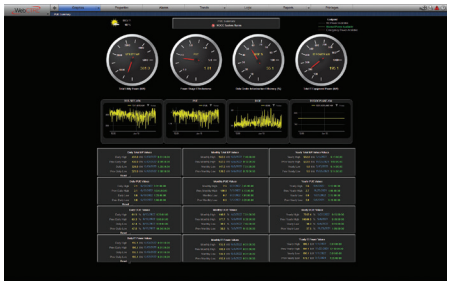
"They looked at everything—the technology, the services, the ability to plan, manage, and implement projects as specified and on time," said Tyler Keller, Enterprise Account Executive, Automated Logic - Strategic Accounts. "We combine our powerful building automation products with a dedicated execution team to deploy our systems nationally for T-Mobile. With all of this and more, they realized that Automated Logic was the partner they'd been looking for."

Automated Logic also provides 24x7x365 monitoring services for T-Mobile's critical power and cooling equipment. An advanced alarming process ensures that risks can be anticipated and identified early so that corrective measures can be applied immediately, while extensive redundancy makes the WebCTRL system more resilient. "Because of our robust technology and processes, we're able to react instantly, before a potential issue can affect network performance or cause a system failure", Tyler continued.

Automated Logic has also been a key partner in helping T-Mobile successfully achieve its 100% renewable energy goals in 2021, which has also helped to reduce energy costs.

"Customers connect to T-Mobile's network millions of times a day," notes Keller. "Any one of those connections could be an emergency first responder, a child calling a parent for help, or a stock trader needing to make a split-second financial decision. It's crucial to deliver reliable access, and the ALC system helps to maintain the uptime of T-Mobile's network and facilities."

T-Mobile—which completed its merger with Sprint in 2020—continues to be pleased with the results and with its partnership with Automated Logic. According to Chad Wilkerson, Director of Sustainability and Infrastructure Sourcing at T-Mobile, "Our partnership with Automated Logic has helped T-Mobile proactively transform aging HVAC equipment into a modern, energy-efficient heating and cooling system while giving us the insight and control we need to ensure reliable operation at all times."



The WebCTRL system includes intuitive graphics that display real-time status of equipment.

Project Summary

LOCATION: United States (nationwide)

PROJECT TYPE: Integrated, multi-site building automation and management system (BAS/BMS)

EQUIPMENT CONTROLLED AND MONITORED: All HVAC equipment (RTUs, AHUs, FCUs, VAVs, boilers, chillers, CRACs, etc.), as well as power, UPS, generators, lighting, security, fire, DC plants, ATS, VSGR, electrical metering, batteries, OptiCool® refrigerant system, TVSS, inverters, and switchgear

BUILDING USAGE: Mobile data centers, mobile telecom switching offices (MTSO), call centers, distributed antennae sites (DAS), and signature stores

OBJECTIVES: Reliable uptime, centralized monitoring and control across telecom portfolio, remote alarming/trending, improved efficiency, and increased sustainability

DESIGN CONSIDERATIONS: Standardization, scalability, and consistency across all BMS systems

MAJOR DECISION DRIVERS: Ability to cost-effectively meet or exceed T-Mobile's project objectives, specifications, and timeline

BRANCH OFFICE: Automated Logic - Strategic Accounts

For more information, contact your local Automated Logic representative.

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