

100% Redundant Distributed Antenna System in a Remote Area? **SIMPLE.**



When a large upstate New York manufacturing facility chose to incorporate a fully redundant, antenna system at their four-building, two million square foot campus, they turned to DAS Simplified to provide a quality tested, pre-manufactured system for guaranteed functionality.

“DAS Simplified did a great job on the design up front, given the complexity of the project. Their prefabricated materials worked out well since it was almost like putting a model together. Even someone who doesn’t have lots of experience could install it.”

-Joe St. Pierre,
*Project Manager,
Coghlin Electrical
Contractors, Inc.*



Giving you the tools for wireless expertise.

DAS Simplified includes:

- Site Survey of Existing Signals
- Complete, Guaranteed System Design
- Carrier & Public Safety Coordination
- Premanufactured Products for Easy Installation
- Installation Training for Installing Contractor
- System Optimization & Testing to Ensure Full System Functionality & JHA/Carrier Approval
- System & Product Certifications to Meet All Specifications
- Ongoing System Support, Including 24x7 Monitoring, Maintenance & Support Programs



THE CHALLENGE

During the planning phase of their large manufacturing plant in Malta, New York, the client made a bold request of their electrical and communications contractors: the installation of a fully redundant wireless system encompassing cellular, radio and public safety coverage—all in an area with no pre-existing cell and radio signals.

THE SOLUTION

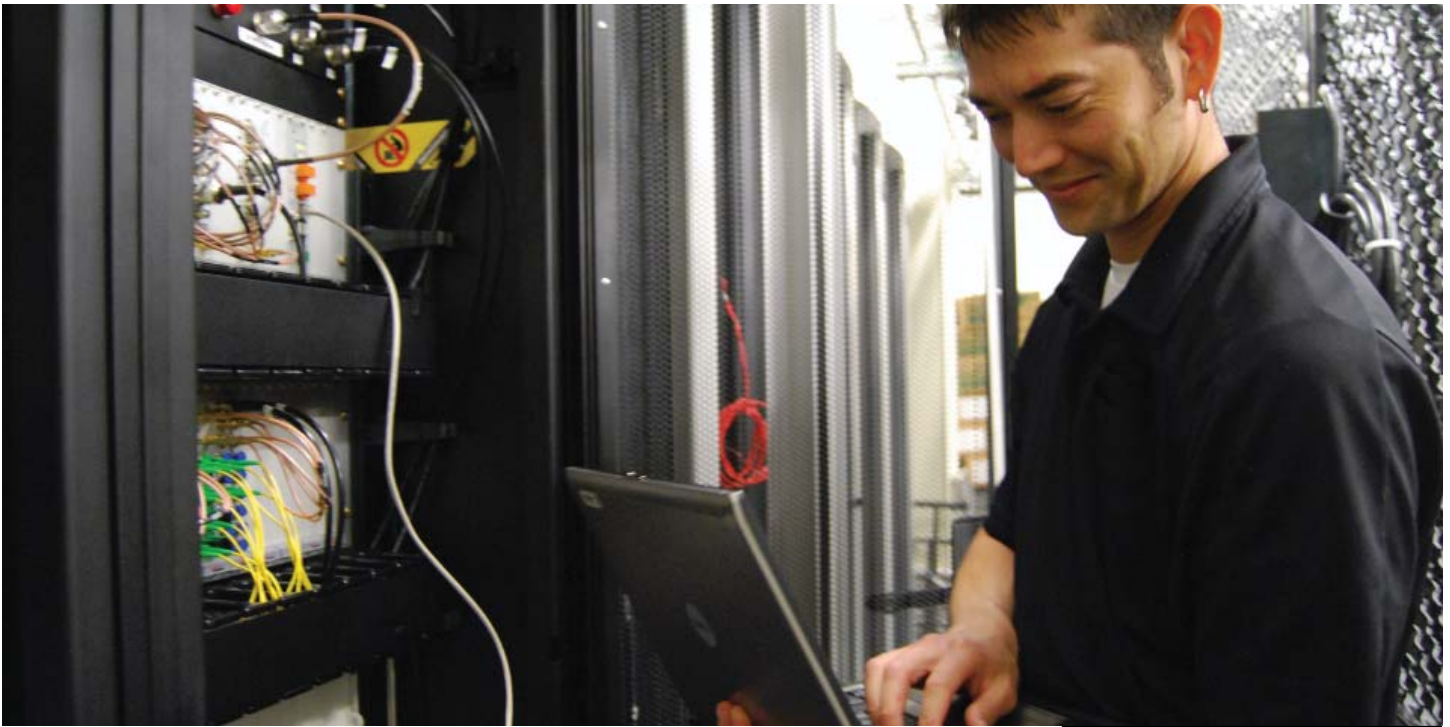
Coghlin/Huen, a joint partnership comprised of two firms working on the electrical and low voltage systems for this large manufacturing client, recognized that their client would need a distributed antenna system (DAS) to amplify the wireless radio signals. The client requested a design/assist approach from Coghlin/Huen, who turned to the only vendor they knew of who could reliably design a distributed antenna system to meet the client's needs: the Seattle-based DAS Simplified. DAS Simplified provides a turnkey distributed antenna solution, including site survey, system design, carrier coordination, and the fabrication and delivery of a pre-manufactured, plug and play DAS system.

AN UNCONVENTIONAL APPROACH

Immediately upon engagement with the project, DAS Simplified realized that in this area of upstate New York, no incumbent, macro cell system carrier existed, so DAS Simplified technicians devised an unconventional approach to the problem by coordinating directly with AT&T and Verizon to provide 100% connectivity by bringing their cell signals directly into the building via a fiber backbone. For the radio and public safety systems requirements, DAS Simplified worked with the radio system suppliers to integrate both systems on the same DAS signal.

PREMANUFACTURED DAS

With the system design in place, DAS Simplified manufactured and tested all of the necessary assemblies, and shipped them along with labeled construction documents that were paired with the assemblies for easy installation. Because Coghlin/Huen did not have significant



previous experience installing a DAS system, DAS Simplified provided personalized, on-location training to the Huen/Coghlin team to ensure the best installation of the coax cables and DAS assemblies. With a pre-manufactured and quality tested system such as this one, Coghlin/Huen technicians approximated a labor cost savings of 30%.

FIRST-RATE SUPPORT

As with any job, unforeseen problems can and did arise as the installation was underway. To work through processes and problems, the DAS Simplified team held scheduled calls with Coghlin/Huel twice weekly to check in on progress, and were also available via phone to troubleshoot any other issues that arose in the field. During the installation itself, nothing was left to chance, with system optimization and progress checked and re-checked for quality control and signal reception by DAS Simplified technicians onsite along the way.

Finally, because of the client's unconventional request for a 100% redundant installation of all installed systems, DAS Simplified specified an online backup system at their Operation and Maintenance Center which utilizes SNMP-northbound, GUI-clients and user management technologies in a carrier neutral data center to ensure 99.999% uptime of these complex systems.

With a pre-manufactured and quality tested system such as DAS Simplified, Coghlin/Huen technicians approximated a labor cost savings of 30%.

DAS Simplified System included:

- Verizon 4G
- AT&T 3G
- 800 MHz Two-Way Radio System
- Monitoring and Full Control Capabilities

Warranty & Maintenance:

- One-Year Warranty from Substantial Completion on Workmanship
- Manufacturer's Warranties
- Existing System Maintenance & Upgrades
- Monitoring & Full Control Capabilities
- 1-hour Alert Acknowledgement

