Distributed Antenna System
and In-Building Wireless

Miller Electric Company
Powering the Possibilities
A distributed antenna system (DAS) is a network of antennas connected to a common signal source that provides wireless service within a geographic area or structure. This service provides wireless coverage to a wide array of mobile devices inside a building or area unable to attain service.

In a society where wireless devices outnumber the amount of people in the United States, the demand for constant wireless coverage has never been higher. Unfortunately, the structural materials in most buildings block and absorb Radio Frequency (RF) signals, presenting complex challenges to the ever-increasing demand for coverage.

A properly installed DAS system can provide universal cell carrier and wireless access for indoor and outdoor applications. This flexible solution is designed to serve as backbone for strong wireless communication, capable of enabling cellular connectivity and public safety.
WHY WE DO IT

The demand for wireless access to voice and data services is driven by new technologies, advancements in smartphones and other mobile devices, innovative mobile applications and the increasing ease and utility of remote data access. With smartphone and wireless data usage more than doubling every year, IT professionals are looking to expand the capabilities of their wireless requirements through Wi-Fi and 4G LTE-capable Distributed Antenna Systems (DAS).

This demand for connectivity does not apply only to individual mobile users. New building codes, such as ICC IFC '09 and NFPA 72 210 mandate approved radio coverage for first responders. In an emergency, first responders’ 2-way radio frequency is critical for life saving communications during an incident. Additionally, security personnel can use the wireless access from a DAS system to review floor plans and building occupancy that can help coordinate rescue strategies and appropriate action.
## BENEFITS OF DAS

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HOW WE DO IT

Design
Integration
Commission
Maintenance