

INCORPORATING DAS WITHIN BUILDING DESIGNS

DAS Solutions for General Contractors

When it comes to creating, reviewing, and approving building plans, it's common to see things like floor layouts, plumbing and utility lines, proposed materials, land surveys, and a myriad of other well mapped out plans. However, one often overlooked feature in large public buildings is in-building cellular and radio communications. Wireless communications are rapidly evolving into what many are calling the fourth utility. It may seem an extraneous item to consider at the outset of a project, but in today's world, it's vital.

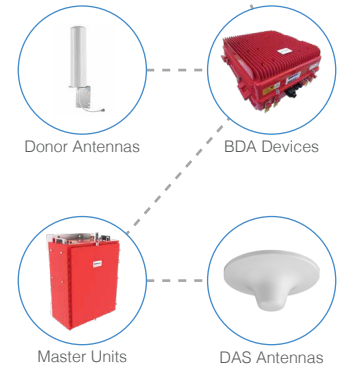


Current Challenge | Ensuring Adequate In-Building Wireless Coverage

Navigating building codes can be difficult, especially since they vary from state to state and even town to town. Some, however, are fairly widespread and adhered to on a more universal level. Two codes, in particular, IFC-510 and NFPA-72, deal with in-building communications for public safety.

Unfortunately, common methods of building construction - including materials used - can make adhering to these codes difficult in large buildings. Per those codes, the radio and cellular frequencies that public safety agencies use to communicate during emergency situations must be able to effectively propagate within buildings.

Due to the large amounts of wood, metal, brick, cement, and Low-E glass used in modern construction, signals can be weak or even non-existent. These weak signals can lead to a denial of building occupancy, which will likely result in costly delays and remediations.



Solution Overview | Including the 4th Utility Within Initial Design Phases

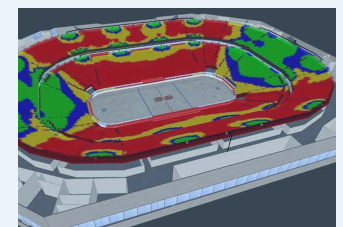
To prevent delays - and the costs associated with them - the design phase of projects should include systems designed to enhance wireless capacity.

Distributed Antenna Systems (DAS) can be configured to distribute radio and cellular signals evenly throughout your facilities, enhancing your ability to send and receive radio or cellular transmissions from dead zones and other areas where wireless signals struggle to travel.

Installing a complete distributed antenna system throughout your building or facility serves a greater benefit than enabling first responders to communicate during an emergency. From an operational standpoint, reliable two-way radio coverage improves the productivity and safety of work teams engaged in building maintenance, engineering, operations, and security.

It's also prudent to consider public cellular frequency enhancement systems (Cellular-DAS) in your initial plans. With the explosive increase in wireless communication devices such as phones, tablets, laptops, security systems, intelligent mail receptacles, and more, operating on carrier frequencies, in-building signal coverage can be inconsistent as bandwidth is consumed. When your customers or tenants lose coverage, their dissatisfaction hurts your bottom line.

Public Safety-DAS must operate independently from Cellular-DAS, and therefore, each should be considered within its own plans and scope of work.



Our Team | Solution Engineering, Installation, and Support

For over 30 years, MCA has provided expertly tailored communications solutions to contractors and builders in need of two-way radios, job-site connectivity, and wireless signal enhancement systems. Our team provides top-tier support for each and every aspect of your business and mission-critical communications projects from start to finish. Our engineers assess your needs, design custom solutions, and install systems that fit your organization's exacting requirements.

CONTACT US TO ENHANCE YOUR IN-BUILDING WIRELESS COVERAGE TODAY



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