



In-Building Wireless DAS/BDA

First Responder Radio and Cellular Coverage Enhancement Services



What is a DAS?

Dense construction materials such as concrete, metal, and even Low E Glass dramatically reduce the ability of radio frequency (RF) waves to penetrate throughout buildings. In the case of first responder radio coverage, this becomes a potentially dangerous situation, not being able to communicate with the outside world. For cell phones, not having coverage means unhappy customers. Day Wireless designs systems to bring wireless signals from outside, and evenly distribute the signal inside.

A donor antenna feeds the outside signal into a Bi-Directional Amplifier (BDA), which is the signal booster. The BDA is connected to a network of systematically placed antenna nodes, connected via coaxial cable or fiber optics called a Distributed Antenna System (DAS).

DAS/BDA for In Building Fire Code Requirements

To meet the critical need of fire, police and medical teams to communicate inside large structures, communities are adopting the International Fire Code, Section 510 regulations.

We are experts at deploying systems that meet local municipal fire codes for radio coverage inside buildings. This requires specific technical design requirements and testing requirements. These systems must be installed and tested by FCC licensed technicians. They must be re-tested every year to maintain proper operation.

Fire code DAS installations must be approved by the local authority, typically the fire marshal. Design and installation and system testing must be coordinated with the public safety radio system operator.

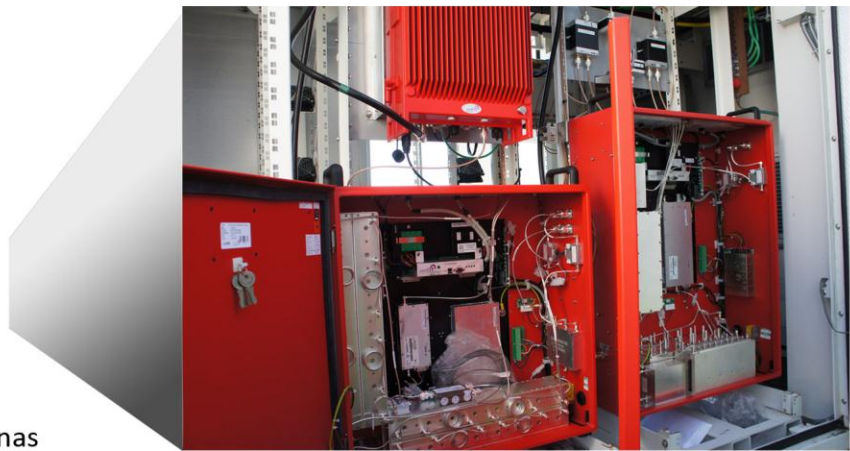
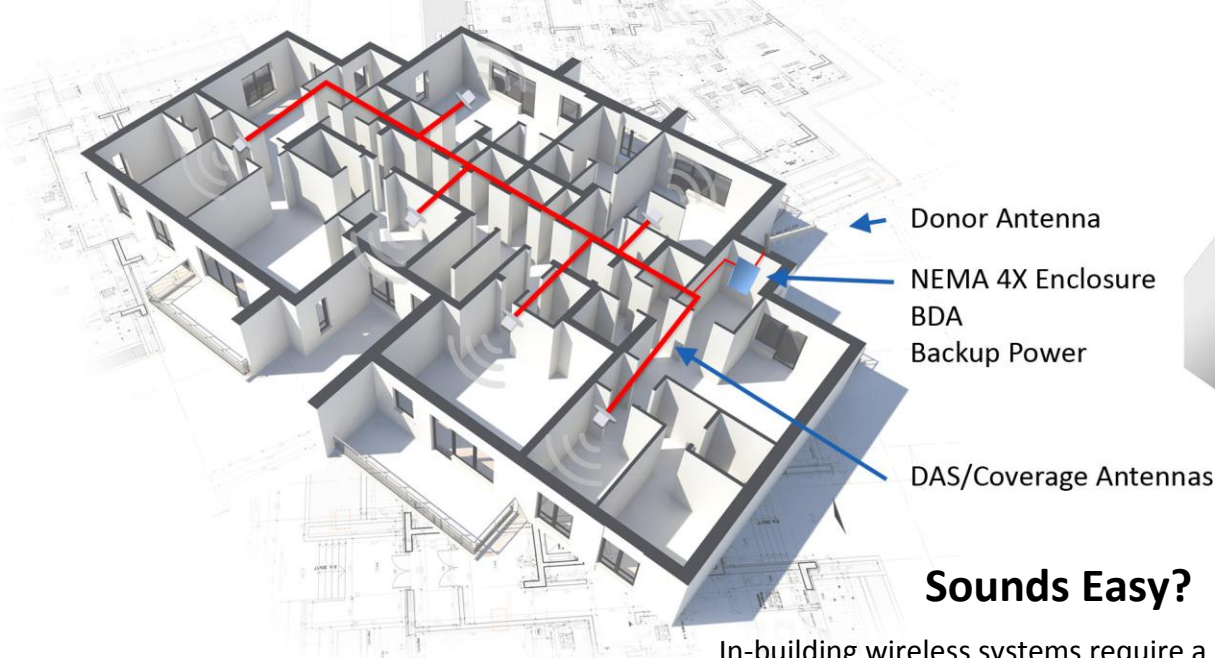
Although local agencies can enhance their fire code, key elements require:

- Minimal signal level of -95 dBm in 90% of the structure
- Back-up power for 24 hours of operation
- Applies to structures of 50,000 sf or those with below ground floors
- Coverage test using a 20 grid or 40 grid process
- Annual certification of equipment with grid coverage test and one hour battery test
- Must be tested by an FCC licensed or factory certified technician

Carrier DAS Boosters

Can you hear me now? – It’s the infamous catch phrase from Verizon from the late 2000’s. Today, cellular customers have come to EXPECT voice coverage indoors, plus have the ability to access high speed data whether it’s LTE or Wi-Fi. Whether it’s for a public venue, hospitality, healthcare, higher education, or corporate office, Day Wireless will help satisfy the demanding voice and data coverage needs of your customers and employees with Carrier DAS.

- Single or Multi-Carrier Systems
- Multiple Ownership Model Options – Owner funded, Carrier, Neutral Host



Sounds Easy? It’s not.

In-building wireless systems require a high degree of design and implementation expertise to meet the many challenging physical conditions such as RF propagation intricacies, networking elements and carrier requirements. An improperly designed or installed system can contribute to communication problems in emergency situations, as well as cause interference to other systems that can result in legal actions and substantial fines.

Day Wireless has invested in sophisticated system design software for predicting coverage, and our designers have years of experience with DAS.

Coordination with cellular carriers and public safety can be very challenging. Our years of experience and relationships in this area help smooth the process.

Our certified RF technicians have the right tools to install and test to the proper standard and then provide you maintenance support.

Turnkey DAS / BDA Services

When you select a partner for design, implementation and ongoing support of an in-building signal booster system, it is vital to have a technical partner that is completely capable. As a DAS integrator with hundreds of successful systems deployed, Day Wireless Systems provides end-to-end services including:

- Needs assessment including minimal signal strength testing and certification of compliance (if it passes)
- System design
- System installation and optimization
- Close out package including 40 grid test, compliance certificate, and as-built documents
- 24 x 7 system monitoring if required
- Annual certification test
- System maintenance

Manufacturer Partners

Day Wireless Systems takes the “best of breed” approach when it comes to choosing the right equipment for your application. We proudly work with the following manufacturers, often times mixing equipment for optimum performance.

Data usage per device has increased **96%** since 2012

COMMSCOPE



Bird Technologies
You're heard, loud and clear.



CHOOSE DAY WIRELESS SYSTEMS

Satisfaction Guarantee

We are sure you will be satisfied with your service, product or system. If you find within 30 days that it does not meet the promised specifications, we will replace it or refund your money.

100-Year Heritage

We trace our communications history back to the founding of Estacada Telephone in 1905. You can count on our stability.

Largest Motorola Outlet in the USA

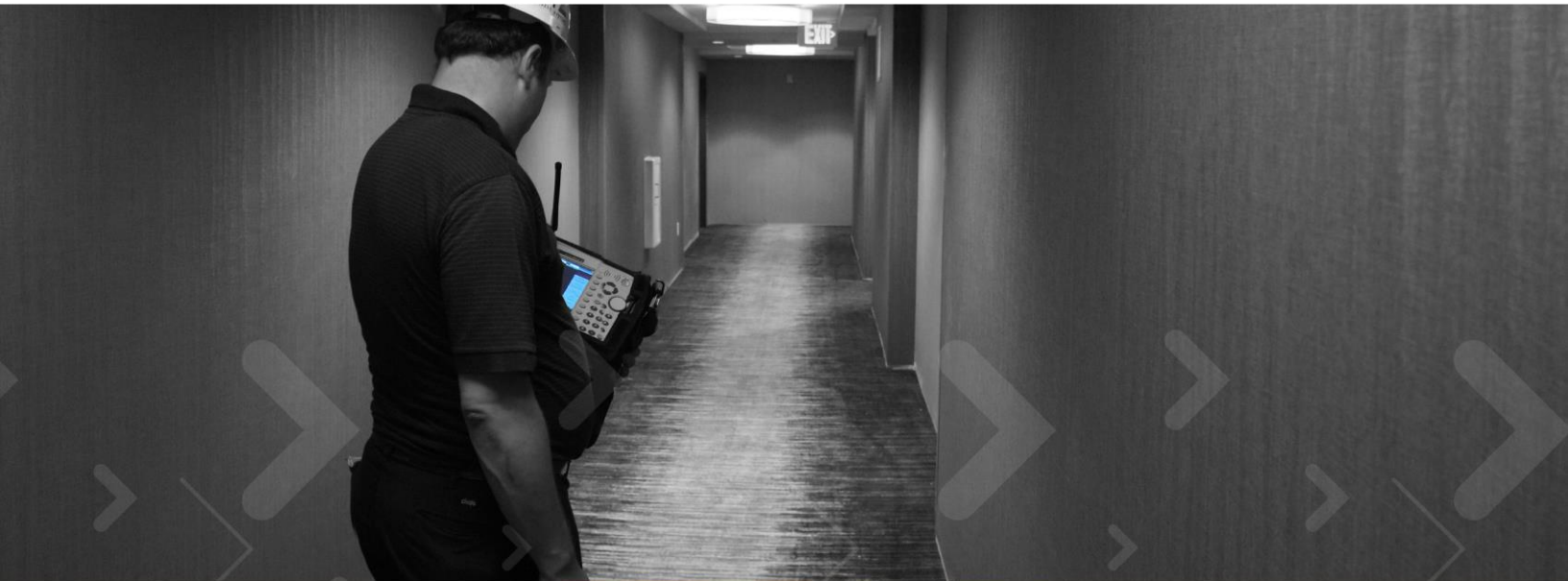
Although we are proud to offer the best possible solution from a variety of world class vendors, we have the training and backing of the leader in wireless technology, Motorola.

One Stop Source

Our range of services, expertise, and solutions are here to help you with virtually any wireless application. You'll find our people to be friendly, knowledgeable and fast.

Mission Statement

We are committed to providing cutting edge wireless technology to increase productivity and exceed customer's expectations, thus creating financial growth for our customers, employees, and company.



You Are in Good Company

Our customers vary in size, but include the following:

- 57 Fortune 100 Companies
- 150 School Districts
- 124 Colleges & Universities
- 600 Public Safety & Govt Agencies
- 148 Hospitals & Medical Centers



Brad Eickman
Strategic Sales Representative

C: 707-771-6779
beickman@daywireless.com