



Cel-Fi QUATRA Helps Hotel staff Get Cellular Coverage in Basement Levels for the First Time



An international hotel chain's San Antonio, Texas property has two sub-basement floors (separated by cement) that house the human resources, operations, and housekeeping departments. Once staff—specifically AT&T subscribers—entered these areas, they were unable to use their cell phones to communicate due to poor signal coverage.

BUSINESS NEED

REDUCING COSTS AND COMPLEXITY FOR CUSTOMERS

The hotel installed a bi-directional amplifier (BDA) passive distributed antenna solution (DAS), but coverage was limited as the coax cables used for this solution did not reach all areas that required coverage. To extend the coverage, the hotel would have to invest in additional coax cabling and costly connectors. But even then, there would be no guarantee of uniform cellular signal throughout the basement floors due to attenuation of signal from the system headend to the antennas — a limitation of this technology.

THE CHALLENGES: Hotels & Hospitality

- Hotel had two sub-basement floors
- No cellular coverage for AT&T subscribers in sub-basement
- BDA passive DAS solutions could not reach all areas requiring coverage without incurring additional costs, or impacting performance

SOLUTION

THE ABILITY TO USE CAT5E CABLE COMPARED TO TRADITIONAL COAX CABLE SPED UP THE INSTALLATION AND KEPT COSTS DOWN FOR THE HOTEL.

Hotel management called on SignalBoosters.com, a leading provider of commercial signal boosting and wireless solutions, to find out about alternative solutions. SignalBoosters.com proposed the Cel-Fi QUATRA™ enterprise in-building cellular solution to address the hotel chain's cellular coverage needs.

Cel-Fi QUATRA is an active DAS hybrid that delivers a cellular signal up to 1000x stronger than other solutions, utilizing Cat5e cabling and Power over Ethernet, with no signal attenuation right to the perimeter of the building.

In addition to the cement floors, the walls were also cement, and featured steel fire doors. "Normally this would present challenges," says Brandon Davis, vice president of enterprise for SignalBoosters.com. "Most solutions offer signal strength in the 70db to 72db range, but because of the 100db strength of Cel-Fi QUATRA, we were able to overcome these obstacles more easily."

The ability to use Cat5e cable compared to traditional coax cable sped up the installation and kept costs down for the hotel. Cat5e cables can be up to five times less expensive than coax cables, can be extended farther, and are also simpler to use.

"Cel-Fi QUATRA is a game changer," says Davis. "We are excited about the opportunities that both the current and future versions of the product will bring to our business—and most importantly, our customers."

Signal Boosters.com



- Founded in 2011, with corporate offices in Houston and San Antonio, Texas
- Leading provider of commercial signal boosting and wireless solutions
- Solutions for enterprise and big business, public safety, home, and vehicles
- Named an Inc. 5000 Fastest Growing Private Company in 2014



BEYOND
BETTER
COVERAGE

- High-quality solution for the middleprize
- Supports multi-carrier 3G/4G/LTE voice and data
- Carrier-approved and unconditionally network safe
- Can be monitored and managed using Cel-Fi WAVE