

HEALTHCARE WIRELESS COVERAGE ENHANCEMENTS

Coverage Enhancements for Hospitals and Medical Centers

Current trends within the healthcare industry, especially in hospital environments, have doctors and other medical professionals becoming more and more dependent upon smart tablets to log patient data and communicate patient needs. It's become commonplace to utilize smart devices across operating theaters, labs, elevators and stairwells. The growing need for these devices in medical settings is often challenged by facilities that utilized Low-E glass and other building materials notorious for degrading in-building wireless signal coverage.

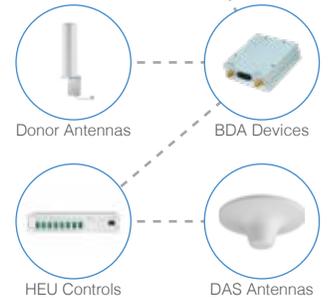


Business Overview | Ensuring Seamless Wireless Connectivity Facility-Wide

Ensuring the health and safety of all staff, patients, and visitors is priority one for all hospitals. Major medical facilities often house dozens of janitorial, security, and administrative teams, hundreds of healthcare professionals, and thousands of patients at any one time. With hospital workers wirelessly logging secure patient data and accessing secure patient records, network capacity, coverage, and strength is a vital part of ensuring optimal patient outcomes.

For patients and guests, communicating with loved ones is a critical part of the healing process, providing comfort during high-stress medical issues and events. Providing the ability to call, text, and live-stream loved ones helps put patients, their families, and friends at ease.

And for your on-site security teams, local law enforcement officers, and emergency medical technicians dispersed in and around your facilities, the ability to broadcast clear and concise communications over standard and public safety radio channels is key to safety.



Current Challenge | Obtaining Sufficient In-Building Wireless Coverage

Cellular and radio signal strength and coverage within medical facilities is generally impaired. Hospitals are well-known for inadequate signal reception for a myriad of reasons, though the most common is signal-blocking building materials used during their construction. The walls of medical complexes are regularly built using construction materials such as concrete, brick, and steel — *all of which inhibit wireless signals*. Public cellular connections rely on signals from local cell towers that must permeate these thick walls — designed to resist fires, floods, hurricanes, and other disasters — both natural and man-made. Radios operating on public safety networks also rely on signals from external towers and if signals are impeded, the lives of hospital staff, patients and first responders are placed at unacceptable levels of risk. Even internal radios used by internal security teams, with in-building base stations, can still have difficulty transmitting to every floor, medical suite, and common area like parking garages, hallways, and stairwells.



Solution Overview | Coverage Boosting BDA-DAS Systems for Hospitals

Specialized radio and cellular enhancement systems, when properly configured and installed by expert MCA technicians, work to eliminate dead spots and enhance clarity across public and private radio, LTE, and 5G frequencies. Depending upon the results of our on-site surveys, our teams can design and deploy technologies such as Bi-directional Amplifiers (BDA), Distributed Antenna Systems (DAS), and repeaters that boost the coverage, capacity, and reliability of radio, cellular, and Wi-Fi frequencies across your entire medical campus. To learn more about systems we can deploy to enhance your in-building wireless coverage, *please contact us today*.



Our Team | Solution Engineering, Installation, and Support

For over 30 years, the MCA team has provided expertly tailored solutions and top-tier support to organizations within the healthcare industry in need of two-way radios, radio and cellular coverage enhancement systems, Private LTE networks, and much more. We can integrate with and add to existing systems, replace inadequate systems, and install brand new systems where none exist depending upon your organizations' exacting needs.



CONTACT US TO BOOST YOUR IN-BUILDING WIRELESS COVERAGE TODAY



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