

In-Building Wireless

The demand for more bandwidth and better network coverage by wireless carriers is continuing to grow. Carriers are now looking for new ways to address this demand in a fast and efficient way. Segra's In-building Wireless solution will not only help address these issues but provides a turnkey solution that is quick to deploy by leveraging Segra's dense fiber network that is already in place today.

With an estimated 80% of mobile traffic originating or terminating within a building, universal in-building wireless networks have become a vital part of business. Connectivity demand, preparation for 5G and environmental constraints are all reasons why carriers are investing in Segra's in-building wireless solution.

CONNECTIVITY DEMAND

The demand for connectivity to macro towers must be supplemented by offloading mobile traffic in other ways. With large numbers of devices localized in metropolitan areas with limited towers, these devices are forced to compete for the limited supply of bandwidth supplied to the one tower. In-building wireless would allow you to offload these users that are closer to the lit buildings, which would increase the performance of the macro tower as well as the performance for the users.

MAINTAINING TARGET SIGNAL STRENGTH

In metro and rural areas alike, maintaining signal strength can be difficult. In dense building areas, this is more troublesome due to new building materials that limit RF strength. In rural areas, you may be many miles from the closest macro tower causing poor signal strength. Utilizing Segra's in-building wireless solution will ensure signal strength is maintained and available for your customers.

PREPARATION FOR 5G

Public expectations of 5G capabilities are that carriers will provide a faster, more advanced network connection than ever before. Providing 5G capabilities comes with the need for the availability of large amounts of bandwidth, as well as the need for devices to be closer to transmitters for short RF band lengths. By providing lit buildings with in-building wireless transmitters, this will put carriers' customers in closer proximity to their service allowing for more of them to receive 5G capabilities.

Utilizing our expansive and dense fiber network, Segra can support in-building antennas, enterprise Wi-Fi, public safety networks, LTE small cells, and Distributed Antenna Systems (DAS). By offloading traffic from high-rise buildings, vast campuses, crowded stadiums and hotel properties to our portfolio of dependable, innovative solutions, we can help ensure your customers stay connected.

