

## PDQ- Cellular Solutions Bring Added Productivity to Hospitals

A doctor in an operating room wishes to consult with a fellow physician in a different city or country. A patient in a waiting room wishes to give the result of her tests to a relative. A radiologist needs to get a hold of a technician somewhere in the hospital. The easiest answer to all of these scenarios is a cell phone. Smart phones, tablets, and their like devices now run thousands of apps that bring multiple benefits to us and our companies. However, cell service in hospitals is very often poor to nonexistent due to the building size, the heavy construction, lead surrounding x-ray rooms, etc.



By installing a micro cell or other cellular system in a hospital or health care facility, the hospital will greatly increase productivity, employee and customer retention.

The companies installing these systems are the cell providers themselves, and a small number of independent integrators. The independent contractor holds many advantages. They can provide service for all the cell phone providers, and they can do it more cost effectively. The equipment used is available to the cell companies and the independent alike.

### Advantages of Cellular

Installing a cellular system allows hospitals to take advantage of adding multiple communication and data devices that run on multiple networks, supplied by the user.

In addition, it allows the multitude of productivity producing applications that have been created for individual devices to be used in the hospital, bringing to the facility estimated gains from the “Bring your own device” as much as \$1,500 per user annually.

Side benefits include creating a better work environment for doctors, medical staff, and administrators, , and keeping customers happy, allowing them to communicate as they would outside the hospital. These benefits make the investment a fast pay back.

## Mobile Access to Digital Healthcare

Smart Phones provide mobile communication and access to data bases at the point-of-care. Or the healthcare workers that travel between facilities the personal smart phone, as opposed to a device supplied by the individual hospital- makes it possible for the worker to take full advantage of the communications and their specific applications. For example, doctors can access diagnostic tools, quickly answer patient questions, interpret lab results, and provide drug information right at the patient's bed side.

## The Half Million Dollar Solution vs. the Thirty Thousand



PDQ Connect can in fact provide a cell system for an entire hospital such as Sloan-Kettering's new regional hospital in Westchester County, New York, for under \$250,000. The system provides coverage for AT&T, Verizon and T-Mobile. As a plus, Sloan-Kettering owns and controls the equipment and can make any changes they wish in the future. PDQ does this by providing all the services from design to commissioning.

By using PDQ, a hospital or other large building owner does not have to provide service to the entire building but can instead pick areas of high need such as operating rooms, waiting rooms, or administration offices. This can be an extremely cost effective solution with the capital expenditures being under \$20,000, a small price to pay to keep doctors, hospital workers, and patients happy.

## An In-Building Cell Signal Boost System The Process

Providing an in-building cell boost system:

1. Site survey and system design;
2. Supplying & installing the coax and fiber optic cable;
3. Supplying and installing the hardware;
4. Leasing the equipment;

5. Commissioning and testing the system;
6. Securing the re-transmission agreements for the customer; and
7. Monthly maintenance contract and system up-grades.

The installation of an in-building system begins with a user-needs analysis, a walk-through of the site, marking the areas to be given coverage, and determining what cell providers are required. Some basic RF tests are done at this time to make sure the project can be accomplished.

In March of 2014, the FCC mandated that any commercial in-building signal boost system must have the approval of the carrier whose network was going to be affected. This mandate by the FCC does two things:

1. It allows the carrier to negotiate the type of system, the frequencies covered as well as the quality of service the customer will receive.
2. It places the responsibility on the system provider to get the pre-approvals from the carriers, and get signed re-transmission agreements from the carriers after the installation and testing.

This process requires technical know-how as well as the experience of navigating what is now a complex process.

## **PDQ- 5 Bars Everywhere!**



The price to install a cellular boost system decreases over the many years owned and the number of users taking advantage of the system. The importance of having cell service in your facility will increase over the years as smart phones and their many apps improve, bringing more workplace production, social networking, and quality of life improvements.

PDQ is in a unique position to provide quality cellular service at the most economical cost.