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Mobile Coverage for Staff and Patients at NHS Clatterbridge Cancer Centre

Case Study

The newly designed Clatterbridge Cancer Centre in Liverpool provides the state-of-the-art facilities and offers pioneering treatments to over 2.4 million people living in the local areas of Cheshire and Merseyside. When it opened its doors in June 2020 it soon became apparent the modern construction materials and thick walls were preventing mobile signal. For patients. This resulted in prolonged waiting and impacted their well-being and morale. They needed to find a solution to provide better mobile connectivity.

Business Needs

Despite the central location of the hospital, the hospital suffered from very poor mobile coverage, particularly in level M3, M2 M1 and Level 0. The modern construction materials and thick walls were effectively preventing any mobile signal from penetrating the building.

Patients who receive treatment or participate in clinical trials spend prolonged periods of time in the facility and the hospital acknowledged that using their mobile devices would in some cases enhance patient well-being and morale. With their primary focus being excellent patient care, the hospital set out to find a solution to improve indoor mobile connectivity.

The Problem

Thick walls and modern construction materials were preventing mobile signal in the building.

Mobile Signal

Due to the construction materials they were experiencing poor mobile signal within the building

Multi-Network

For employees and visitors working within the hospital

The Solution

Frequency commissioned Boost Pro Systems, one of their enlisted Cel-Fi certified installation partners, to perform a site survey and install a Cel-Fi QUATRA mobile signal solution. The Cel-Fi QUATRA is an Active DAS Hybrid that provides uniform, high-quality mobile signal throughout a building, and is scalable to the size needed. It is a cost-effective, easy-to-deploy all-digital solution. Unlike older analogue boosters and passive DAS technology, the Cel-Fi QUATRA delivers a mobile signal that is up to 1000x stronger, utilizing CAT 5e/6 cabling for RF and Power over Ethernet, with no signal attenuation, right to the perimeter of the building.

The Products

CEL-FI QUATRA

The Results

Upon testing the areas that prior to installation had little to no coverage, now enjoyed full coverage. The solution has allowed patients, staff, and visitors to use their mobile devices on any mobile network, to make and receive phone calls, access data services, and receive text messages whilst anywhere in this new progressive hospital.

The next phase of the project, due to commence in March 2021, is to extend the solution to provide coverage within the Clinical Business Lounge on Level 0 and the main boardroom on level M2.

Business Benefits

- Improved Signal
- Multiple Network Coverage
- 3G 4G 5G — Full Mobile Coverage
- Cost-effective solution

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