



Finding a cost-effective Mobile connectivity solution for the Hounslow Civic Centre

Case Study

The new Hounslow civic centre from the outside looked modern, sleek, and oozed on trend architecture. However, as soon as you stepped inside of the building you would experience hardly any signal.

The building Contractors Bouygues UK only realised this towards the end of the construction. The materials the building was constructed from was acting as a barrier for mobile signal. The building was also going to be used for public facilities including a library, café and an exhibition space. It was vital that the public and the employees working here had a reliable mobile signal.

The Problem

Provide a cost-effective solution to enhance in-building mobile connectivity for all networks. Complex to install due to divisional design of building and building materials used.

Business Needs

The new 16,000ft², 7-storey Civic Centre in Hounslow Town Centre is an architectural masterpiece with glazed bays separated by anodized aluminium geometric shapes. It houses the public-facing amenities, library, café and exhibition space on the lower floors and the council's employees and meeting rooms on the higher levels.

The building materials used in the remarkably designed building did not allow for mobile signal to pass through, leading to little to no indoor mobile signal. The building contractor, Bouygues UK only realised this near to the final stages of the project and had to find a solution. A building like this deserved first-class, stable mobile connectivity and he was running out of time fast to find and deploy a cost-effective, legal solution.



Location

Located in the centre of Hounslow Town Centre



Multi-Network

The mobile coverage needs to give visitors and employees multi-network coverage



The Solution

From the outset, it was clear that this was going to be a complex install which would require careful planning. Frequency and ZoneWave, one of our installation partners, led in-depth discussions, site map consultations and a thorough site inspection. Due to the divisional design of the new building, 46 separate areas were identified across the 6 floors. The Cel-Fi Quatra hybrid digital and DAS solution was proposed to solve mobile coverage across the building. This consisted of 22 NU's and 66 CU's with an attached DAS.

The Products



The Results

Despite the short lead time and challenges to stay on budget, the project was delivered on time and in budget. The feedback has been resoundingly positive, and Hounslow House now benefits from reliable, stable mobile connection on all major networks throughout the building.



Business Benefits



Improved Signal



Multiple Network Coverage



Full Mobile Coverage



Installed on time and within their budget