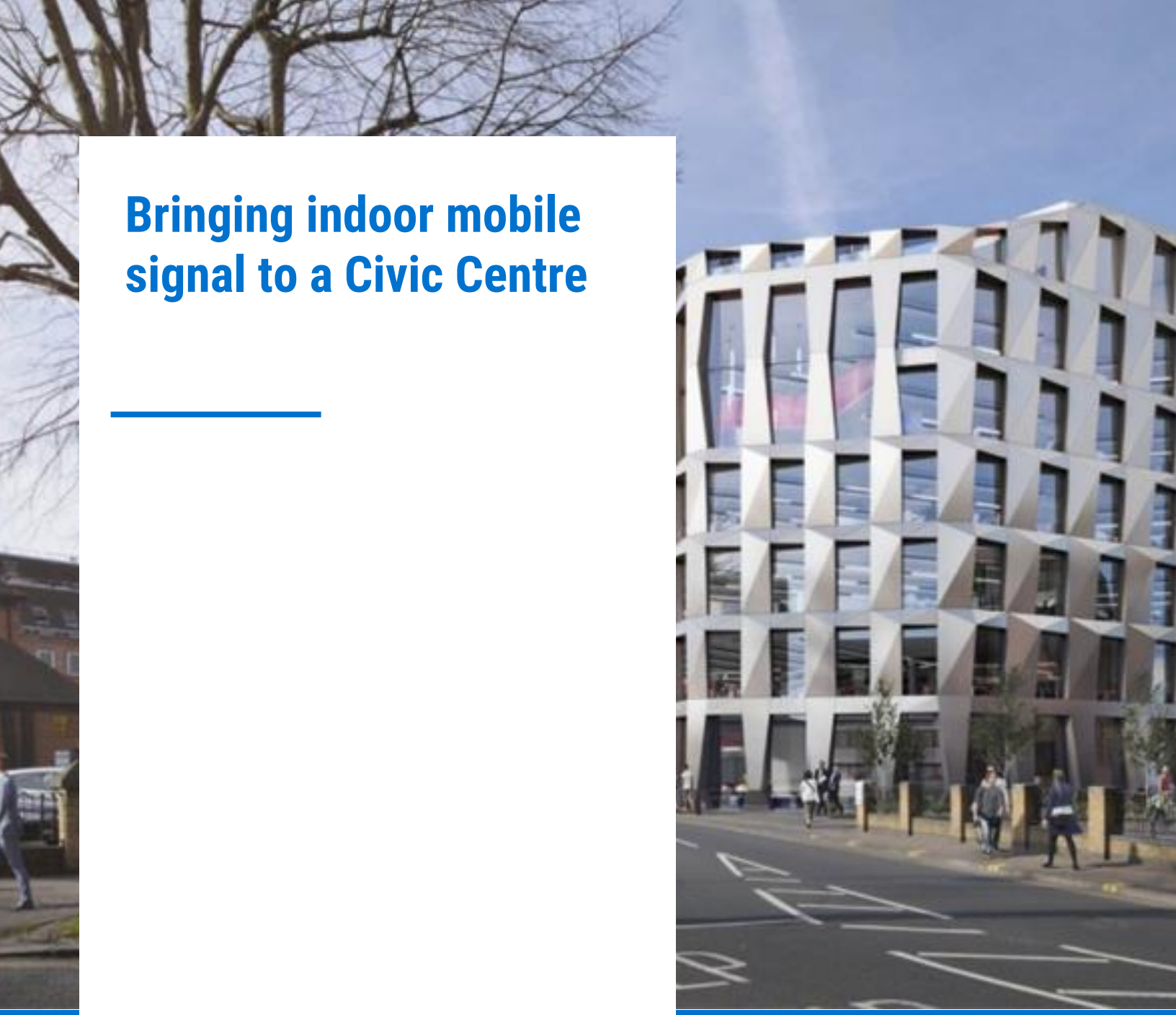

Bringing indoor mobile signal to a Civic Centre

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Cel-Fi solutions delivers first-class mobile connectivity for brand new Civic Centre in Hounslow House.

The new 16,000m², 7-storey Civic Centre in Hounslow Town Centre is an architectural masterpiece. With its glazed bays separated by anodized aluminum geometric shapes, it has become a striking landmark in West Hounslow. It houses public-facing amenities, library, café and exhibition space on the lower floors and the council's staff and meeting rooms on the higher levels. The building can also boast best-in-class mobile connectivity as it has been fitted with a Cel-Fi Quatra mobile signal solution

Background

The main office of the Hounslow London Borough Council was in the old Civic Centre in Lampton Road, Hounslow. It was built in the late 70's and was no longer fit for purpose with high running costs. The old building was decommissioned and redeveloped into 940 much-needed private and social housing units.

The Civic Centre was relocated to Hounslow House; a brand-new, purpose-built office in the heart of the town centre. The striking façade of the building has facilitated the regeneration of West Hounslow and is a smaller, modern and more energy-efficient building. Building of the 16,000m² internal area was completed in early 2019 and the Council moved in on 1 May 2019.

This 7-storey building is a hub for the local community and includes:

- Office space for 872 workstations;
- Public-facing amenities on the ground floor reception;
- Public library, café and flexible exhibition space; and
- 45 basement car park spaces.

The Business

The Hounslow London Borough Council services include local planning applications, housing, waste collection and environmental health. It is a local education authority, liable for social services, libraries and waste disposal. The council shares responsibility with the Greater London Authority for strategic policies including housing, planning and the environment.

When their old building was declared unfit for purpose and decommissioned for housing, the construction of a new purpose-built building close to the town centre started. The unique design required the use of building materials like anodized aluminum and thick glass bays to deliver the landmark building.

The Challenge

The building contractor, Bouygues UK, realised towards the end of the build that there was little to no indoor mobile signal available in the building. A building like this deserved first-class, stable mobile connectivity and had to find and deploy a cost-effective, legal solution before the building was complete.

The Solution and Result

Bouygues UK had contacted Zonewave, Cel-Fi certified and close partner of Frequency Telecom. From the outset, it was clear that it was going to be a complex install and would require careful planning. The biggest culprit of the mobile signal dead zones was the materials used to construct the designed building which did not allow mobile signal to penetrate through.

Bouygues and Zonewave discussed the requirements at length and Zonewave conducted an in-depth site survey. Due to the divisional design of the new building, 46 separate areas were identified across the 6 floors.

With the building deadline looming and being challenged to provide a cost-effective solution, Zonewave presented the Cel-Fi Quatra hybrid digital and DAS solution to solve mobile

coverage across the building. The solution consisted of 22 NU's and 66 CU's with an attached DAS.

The Cel-Fi QUATRA is a scalable in-building mobile system for delivering high quality signal in venues up to 200,000 ft². It is a cost-efficient and easy-to-deploy solution that combines the best of active DAS and Smart Booster technologies that have been widely adopted by industry and networks around the world, setting a new standard in Signal Boosting capabilities. Cel-Fi QUATRA delivers a mobile signal that is up to 1000x stronger than analogue, utilising CAT 5e/6 cabling for RF and power over ethernet, with no signal attenuation right to the perimeter of the building.

Once the proposal was accepted, Zonewave installed the system. 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.

Zonewave are proud to have provided signal solutions for prestigious clients such as The Royal Opera House, The Government Legal Department, and Warner Media. Zonewave believes that the highest quality solutions deserve the highest quality installations. Point of sale connectivity, free to roam data collection, WHSE automation, IoT enablement, and patient data availability are just some of the reasons our clients have chosen our solutions.

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Frequency Telecom is the Master Distributor of Nextivity's Cel-Fi range of mobile signal boosters in the UK and Ireland. Cel-Fi products are licence-exempt and fully meets the regulatory requirements in the UK (Ofcom SI 2018/399) and Ireland (ComReg S.I.No.283 of 2018). Frequency has successfully installed indoor mobile signal solutions at the NHS, Pure Offices, BBC, Hotel Chocolat, Lincoln Epic Showground, Premier League and many others.

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Headquartered in San Diego, Nextivity Inc. develops the award-winning line of Cel-Fi products that optimize cellular coverage in homes, office and enterprise buildings. Cel-Fi products are self-configuring and leverage the advanced signal-processing and radio design of Nextivity's IntelliBoost chipset to deliver the industry's highest gain at the lowest cost per square foot. The Cel-Fi commitment is to protect the operator's network, deliver the best in-building mobile performance, and be the easiest solution to install.

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