

Carrier Grade mobile connectivity in a high-spec serviced office



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FREQUENCY TELECOM

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Cel-Fi Quatra resolved poor mobile coverage across all networks in a newly fitted managed office building in London.

Before opening their latest offices in Haggerston, London, Storey needed a cost effective in-building mobile signal solution that could provide full coverage across all networks and be remotely managed.

The Business

Storey provides personalised working environments for businesses in great locations. Clients have great flexibility around the size of their office, tenancy duration and aesthetics of the space. Storey pride themselves on operating high-quality office space with all the services a business requires.



The Challenge

6 Orsman Road is a newly constructed office building comprising 41,322 ft² over ground and 5 upper floors. Owned and managed by Storey, it is located on the banks of the Regent's Canal in the heart of Haggerston.

This architecturally designed building combines CLT and steel to provide the ultimate in flexible office space. The structure is bolted together and applied elements such as SIP panels, cladding, timber decking, steel balustrades can all be detached and reused. Each floor enjoys full height floor to ceiling glazing, providing excellent natural daylight and is fitted out to a high-level specification.

A building of this caliber should also have state-of-the-art services and amenities, including good connectivity throughout. However, during the fit out of the new office, it became apparent that mobile coverage in parts of the building was poor and had to be resolved.



The Solution and Result

When previously faced with poor in-building mobile connectivity, Storey would turn to traditional Distributive Antenna Systems (DAS). However, in recent times, they've sought to look for more cost-effective, quicker to deploy alternative solutions to address the issues of poor in-building mobile signal. That's when Storey consulted Frequency.

Following several meetings to discuss the Cel-Fi value proposition and with an understand of the requirements and building construction, the business case was put forward by Frequency for deploying Cel-Fi at 6 Orsman Road.

The viability of deploying a Cel-Fi solution was further enhanced by way of a site inspection. Taking internal and external factors into account, the survey revealed that despite the central location of the building, modern and sustainable building materials used in construction prevented mobile signal penetrating to parts of the internal space. However, crucially, the survey also provided sufficient evidence that the external signal available would enable Frequency to deliver a reliable and robust Cel-Fi coverage solution internally.

Frequency proposed two viable Cel-Fi solutions to cover the areas of internal space where a solution was needed. However, given one of the client's key requirement was remote management, Cel-Fi Quatra was selected as the best fit solution. Cel-Fi Quatra with its ability to connect to the corporate LAN would enable Storey's IT team to access and manage the solution remotely.

CEL-FI
QUATRA



The solution was installed by ZoneWave and overseen by the main onsite contractor, Parkery Ltd. The solution consisted of 4 x Quatra NU, 16 x Quatra CU and 4 x External MIMO

antennas in addition to elements of a passive DAS from certain CU positions within the office.

Since deployment, mobile coverage in the building has vastly improved across all networks in areas where the signal was previously poor.

Tenants and other users of the building can now utilise all areas of the building, not just their own office space, confident in the knowledge that wherever they are in-building, they will be contactable on their mobile and won't miss an important call.





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.

Web: www.zonewave.co.uk

Email: info@zonewave.co.uk

Tel: +44 203 985 7666



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.

Web: www.frequencytelecom.com

Email: info@frequencytelecom.co.uk

Tel: +44 208 397 2222



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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