

Case Study

Fluor Ltd.,
Large Industrial
Manufacturing Facility



About Us

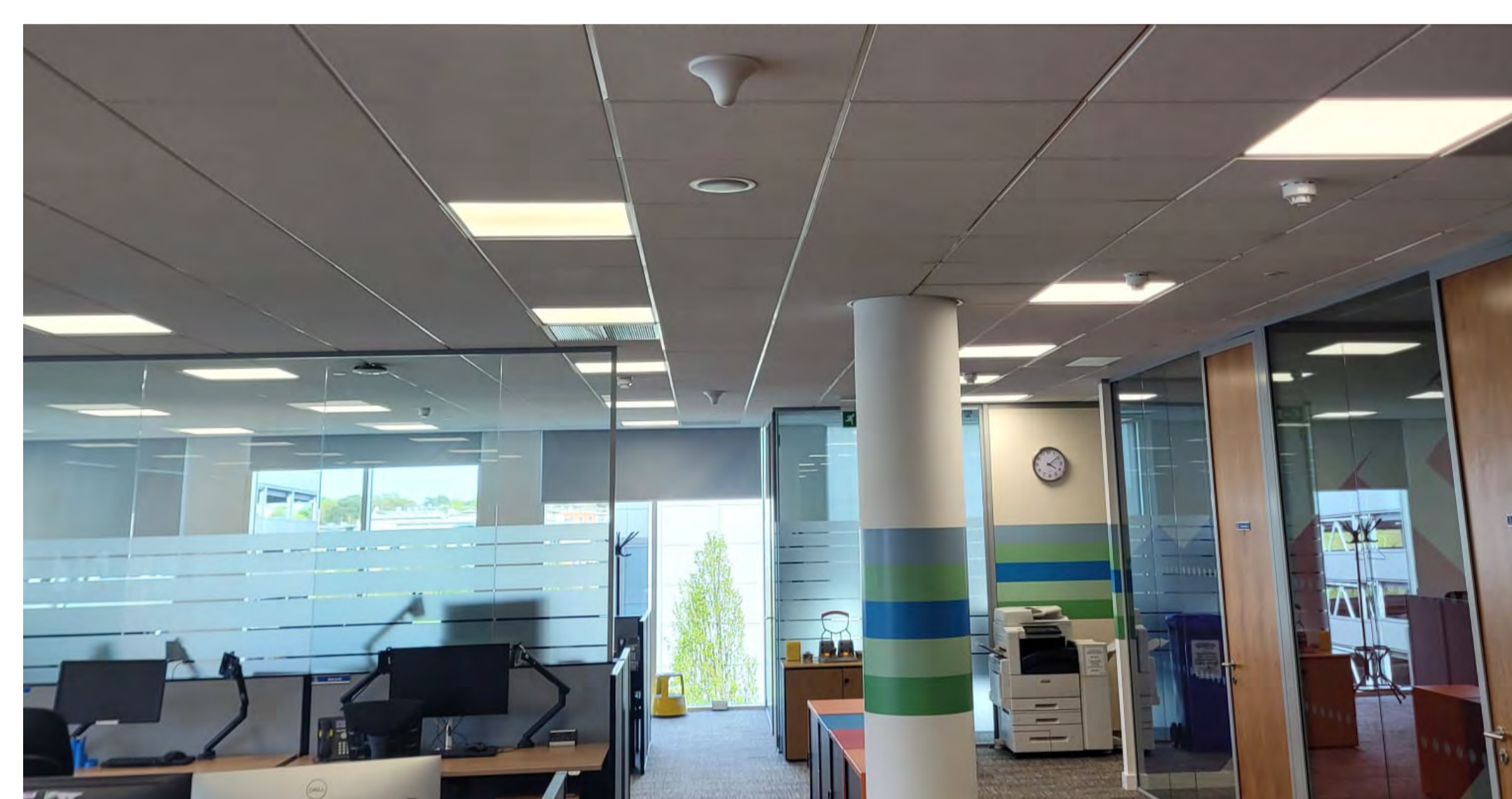
Mobile Signal Solutions are UK based installers of commercial signal boosting systems, focused on improving mobile phone signals indoors.

Our professional team are approved installers of carrier grade equipment compatible with all UK networks. We work with the client from site survey to installation and offer maintenance & support contracts. Working together we ensure 100% network coverage, no budget overruns, and we offer upfront payment or leasing options.

Our main aim is that clients are happy to recommend us to others. Each system is voice and 4G compatible but we also future proof the design to carry other new mobile frequencies as they are launched e.g. 5G and 6G compatible systems.

The Property

The task was to improve signal coverage for nonexistent in-building cellular signal across three large multi-use buildings on a single campus. This system needed to be tailored to accommodate the unique combination of production and office spaces spread over four floors in each building. The three buildings had no internal signal prior to the installation of a signal booster system.



The Challenge

The primary challenge faced by the Mobile Signal Solutions (MSS) team was the stringent installation window due to the production facility's 24/7 operation, which only allowed for downtime once a year. Within this tight timeframe, the system not only needed to be fully installed but also operational, adhering strictly to the agreed-upon deadlines.

Additionally, the client mandated 24/7 remote access and diagnostics for the system, enabling any necessary remedial actions to be performed remotely, ensuring uninterrupted service and minimal disruption to the facility's operations.

Why A System Was Required

Ensuring the safety of remote workers was a top priority, necessitating full cellular signal coverage across all networks in every area of the building to guarantee staff remain reachable at all times. Prior to the upgrade, sales and office staff had to rely on Wi-Fi calling—a solution not without its drawbacks, as cellular calls would be redirected to voicemail unless contacts used specific apps like WhatsApp or Microsoft Teams for direct calls.

Implementing an all-network signal booster system addressed this issue effectively, ensuring that all key staff members could maintain constant accessibility to clients and customers, thereby enhancing communication reliability and operational efficiency.



The Results

The extensive coverage provided by the solution has made the facility safer for employees and has removed operational frustration across the buildings. With access to all networks and features such as remote monitoring and built-in 5G capability, the system is future-proofed.



What Causes Poor Coverage?

Distance from the local base station or the construction of the outer walls are the main factors. Outer stone walls blocking signal is a common problem in many older buildings, due to the thickness of the walls signal finds it difficult to permeate indoors, especially in basements and areas with no windows.

In modern buildings, the high level of energy insulation also causes signals to be blocked. Buildings using foil backed insulation on roofs and walls, alongside variants of window panes where the glass contains metal particles to reflect the sun's rays means walls, roofs and windows all block the mobile signal.

Need A Solution?

If you're looking to improve connection across your site but aren't sure where to start give us a call today. Our team are happy to talk through your options and set up a survey.



Step One: On-Site Survey

You will meet with our surveyor to discuss your needs in full. You can discuss areas of importance and agree on a design plan for the system you require.



Step Two: System Design

Our surveyor will then design the best possible system. The surveyor will then meet with the operations team to put a cost together for that system.



Step Three: Installation

Before you know it we will have a team of highly skilled engineers on-site and your system will be up and running and providing flawless mobile signal throughout.

"After years of having phone networks connection issues in our offices, we reached out to MSS.

From the start, MSS explained how the system would work and how they were able to work around our business needs to install their system into all areas of our offices.

Special thanks to the MSS team for their professionalism, support and installation of our system. We now have coverage in all areas of our offices."

Philip Hauke
IT Operations Specialist, Audio Visual SME

