



MOBILE NETWORKS VIA CARRIER GRADE WI-FI CALLING

THE REAL COST OF POOR CONNECTIVITY



SUMMARY

We specialise in putting our client's buildings to work. Building a smarter digital environment, optimised for your people and their devices, creating smarter, better connected buildings.

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CARRIER CLASS VOICE THROUGH WIFI MADE EASY

In an increasingly wireless world, the use of modern building materials such as steel frames, reinforced concrete and tinted glass can adversely impact not just the reception of mobile phone signals within a building but equally, the signal characteristics and wireless coverage within.

Indoor mobile coverage is becoming a mission critical component that can impact the value of a building. Data consumption in indoor environments has already reached significant levels and is only set to increase. Over 80% of mobile usage is from inside buildings and is predicted to increase to above 90% in the next year. Indoor coverage at work is vital. Poor connectivity fundamentally compromises productivity, safety, security and the quality of service.

Effective indoor cellular is essential for creating a superb people centered environment. With the use of shorter range, higher frequencies, combined with modern building standards, delivering connectivity is becoming more challenging and expensive at a time when connectivity is becoming more business critical.

OVERCOMING THE CHALLENGES

SOLUTIONS

In-building cellular enhancement solutions, repeaters, small-cell, and DAS have long been an essential tool for bringing the outside indoors, to overcome the inherent difficulties in penetrating buildings.

SEAMLESS

But delivering better signal and a seamless experience can become surprisingly expensive, especially within high density environments where customer experience is everything.

EXPERIENCE

At Cyberair, with over 20 years experience of wireless, whether your preference is DAS, Small-Cell or Wi-Fi we can help plan and create the right solution delivering a superb digital experience and 5G inside and out.



**The good news is now there's a
new way to do Carrier Grade
Wi-Fi calling.**

OVERCOMING THE CHALLENGE WITH CARRIER GRADE WI-FI

The increasing importance of Digital connectivity in commercial property has seen the emergence of a wide range of wireless technologies. Failing to address the challenge of choosing the right solution can undoubtedly have a negative impact on usability and the long term commercial appeal of the building. However creating a space that is commercially attractive and free of signal issues through solutions such as full spectrum DAS can have a significant impact on capital cost and budgets.

Description	DAS (Distributed Antenna System)	Wi-Fi calling
Allows users to communicate using their personal mobile.	Yes	Yes
Multi-Carrier	Yes	Yes - Increasing native support on phones
Full Spectrum	Yes	Yes
Easy to install infrastructure	No - Requires coaxial or core fibre network.	N/A Inherently works with all networks
Detailed survey and planning	Yes	Yes - No need for fibre or coaxial cabling solutions.
Future Proof - Supports Emerging Technologies Such as 5G and IoT and M2M communications	Yes	Yes
Good Indoor Coverage	Yes	Yes - Allows deployment of wider range of IoT solutions.
Seamless Calls and Handover	Yes	Yes
Needs App to be downloaded.	No	Yes
Works on legacy feature phones.	Yes	No - on only on smartphone, with relevant software.
Easy to use	Yes - may require selection of 3G / 4G network	Yes - but needs to be enabled by the phone's subscriber.
Supports Cheap International Roaming	No	Yes - Users charged home network rates for calls when connecting via WiFi

The good news is that with ever smarter Wi-Fi systems and the ever increased roll out by carriers of advanced Voice Over LTE (VoLTE) and Voice over WiFi (VoWiFi), a compelling case exists for carriers and service providers to extend the reach of their networks. This enables them to essentially make use of advanced LTE capabilities and small-cell architecture through Wi-Fi.

The ability to alleviate Indoor coverage problems so as to make and receive mobile calls and SMS reliably, even in the most difficult to cover areas without the need for expensive licenced solutions. Carrier integration can provide cellular facility at a fraction of the cost and installation time whilst offering many of the advantages of DAS solutions.

CAMPUS, ENTERPRISE NETWORK DESIGN / INSTALLATION
COPPER, FIBRE AND WIRELESS TECHNOLOGIES.

GIGABIT CONNECTIVITY AND NETWORKING VIA THE
GOVERNMENT GIGABIT VOUCHER SCHEME.

IT, IP, TELEPHONY, ECO SOLUTIONS & BUILDING AND
PROPERTY MANAGEMENT.

MOBILE ENGAGEMENT, E-MOBILITY AND CONTEXTUAL
INTELLIGENCE PLATFORM.

MOBILE, M2M AND IOT FOR BUILDING CAMPUS AND
REMOTE MONITORING.

SMART BUILDING, RADIO FREQUENCY SURVEY AND
NETWORK PLANNING.

WIFI, BYOD AND MOBILE DEVICE MANAGEMENT AS A
SERVICE.

SMART CITY, MULTI CAMPUS MULTI GBPS RF
INTERCONNECT.

SMALL CELL, DAS AND WI-FI CALLING FOR CARRIER
MOBILE.

APPYFI, BESPOKE, DYNAMIC WEB APPS.
DIGITAL WAYFINDING, AV AND SIGNAGE.

**LET US HELP YOU TO PUT YOUR
BUILDING TO WORK TODAY.**

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