



ExcelRedstone Wi-Fi Services

Wi-Fi Design & Validation Services



Introduction

ExcelRedstone, leveraging its significant experience in ICT Infrastructure deployments, offer clients design, advisory, procurement and deployment services in relation to Wi-Fi solutions.

We have a Vendor agnostic approach so engage in finding the best solution fit for you. We focus on the unique attributes of your environment which ultimately determine optimised wi-fi performance. So whether you have a greenfield or brownfield deployment, require coverage indoors or outdoors, require advanced services overlay such as location based services and wayfinding, we can offer an end to end practical approach to wi-fi services solutions.

For customers with greenfield deployments, or moving into new premises and require wi-fi services as key line of business capability:

- **Desktop Survey**
A predictive model offering up to 85% service coverage certainty.
- **Pre-Install Site Physical Survey**
An appraisal of the physical environment to inform the desktop survey.
- **Pre-Install Site RF Survey**
A mock RF simulation, with AP on a stick to clarify building signal characteristics - advised in regard to complex buildings. Offering up to 95% coverage certainty.
- **Post Install Survey**
RF survey simulating client behaviours (roaming) and analyses of the signal coverage after APs have been deployed - Offering 98% coverage certainty.



Key Deliverables

Desktop Design Report – A design identifying the AP quantity and AP locations. The report provides predictive information only; signal strength, primary through tertiary positions (backup AP signal if AP fails), predicted SNR, predicted data rate and throughput.

Pre-Install Survey Report – Actual measurements of all the above hence greater coverage certainty.

Post Install Survey Report – Depending on format gives you all above plus jitter, round trip delay, airtime utilisation, all SSID information and packet loss metrics as well.

If required - Services Mapping to RCPs (Reflective Ceiling Plan) – Coordinated AP placements ready for building construction/fit-out, being mindful of other building services and aesthetics, CAD resource to convert placement onto .dwg and even into BIM models if needed.

Delivery Approach



Building the Environmental model

Understand the environment in which wi-fi services are needed, by developing a software model with walls, glazing building fabric and ideally including furniture.



Build Desktop Model

Select best fit AP model and develop a suitable AP deployment in a 3D digital building representation, perform predictive analysis and test wi-fi services before actual deployment, all managed via a peer review and improvement process – (four eye view). Design activities take place in collaboration with the client, which may encompass a design walk through with the client, addressing any deployment challenges.



Pre-Install Survey

Survey to test the environmental RF characteristics, the output of which, informs and improves the wireless model, in addition providing the opportunity to make sure deployment aesthetics are met and building services co-ordination hurdles identified.



Post Install – Validation Survey

To refine AP mounting positions and advise regards the logical configuration where needed all helping to optimise the client wi-fi experience.

Other Wi-Fi Services

Wi-Fi Coverage Analysis & Troubleshooting Services

For customers with existing deployments, experiencing wi-fi connectivity issues or looking to optimise their existing wi-fi solution.

Wi-Fi Security Coverage Advisory

For customers who have concerns regarding their wireless security monitoring function or lack of it. What standards should be adhered to and configuration implemented to promote secure wi-fi.

Wi-Fi Procurement Advice & Facilitation

For customers looking to buy a wi-fi solution and don't fully understand the key market players and would like a vendor neutral viewpoint. And maybe someone to manage or procure on the client's behalf.

Wi-Fi Network Readiness Assessment

For customers who are not too sure their core network is ready to support today's standards in terms of capability and/or performance.

Wi-Fi Inventory & Capability Assessment

For customers who need/want to understand what wi-fi they have in place, its capabilities, location and supportability going forward.

Direct Supply

In a more comprehensive sense, ExcelRedstone can directly supply solutions including all network and adjunct systems needed for a successful wi-fi outcome. This incorporates advanced services and onboarding platforms. e.g. wayfinding, marketing, analytics and location-based services capabilities.



Summary

Whether the client requires professional services or end-to-end solutions to meet and exceed their wi-fi service ambitions, troubleshooting existing wi-fi environments or solutioning to make the most of wi-fi deployment budgets. ExcelRedstone have a tailored approach to suite any client, with references to match all deployment scenarios.

Wi-Fi Services from ExcelRedstone

Call +44 (0)203 929 9915 or email sales@excelredstone.com if you would like to speak to a member of our team about our Wi-Fi services, or indeed any of ExcelRedstone's infrastructure services.

