

## Nationwide Wi-Fi Installation

Wi-Fi infrastructure for UK-wide retail banking network



### The challenge

Our client, a UK-wide retail bank was investing in wi-fi across its retail branch network in order to facilitate the use of new technology.

The client required one wireless access point (AP) in every branch to use with a new customer iPad facility, and a second AP for public use.

A first phase of 55 branches would be followed by a further 350 locations.

### The Solution

Excel developed a comprehensive plan for installing, commissioning and testing wi-fi equipment and cabling infrastructure to deliver the required coverage of approx. 15m<sup>2</sup> without impacting on normal retail operations.

By developing that plan in close liaison with both WAP provider Vodafone and the client team, we were able to schedule a tight six-week out-of-hours programme.

Unsupervised installation would be carried out by our highly experienced and PES-cleared engineers.

### Implementation

Throughout the project we deployed two mobile teams with fully-equipped vehicles. The aim was to complete two branches per team per shift.

A SYSTIMAX GigaSPEED XL structured cabling system was implemented at each branch, with Cisco access points, in-line PoE injectors and patching connectivity.

The experience of our engineering teams ensured that the rollout continued on schedule and uninterrupted by localised

issues – such as when we identified that a number of BT sockets had been installed in the wrong location. In these instances we were able to extend the line to the branch comms cabinet and Vodafone equipment, thus avoiding delays in rescheduling the BT engineer.

### Results

Following our successful completion of this first phase, the client team asked us to analyse the schedule for the remaining 350 locations in order to identify any additional cost savings.

Using optimisation software that allows building plans and other relevant information to be analysed, we were able to identify the best target area for each AP without the need to visit site prior to installation.

This will have a significant time and cost saving impact.



### At a glance

- » Installation, commissioning and testing of wi-fi at 55 retail branches
- » Six week programme across the UK SYSTIMAX GigaSPEED XL structured cabling with Cisco APs
- » On time implementation
- » Optimisation of wi-fi placement for further 350 locations

Excel I.T. Ltd  
Trafalgar House,  
712 London Road,  
Grays, Essex  
RM20 3JT