

# ITM Solution Brief

## Wireless Networks



**ITM Communications is an independent specialist provider of cost effective and energy efficient ICT infrastructure services and solutions to the corporate, financial, government, defence, healthcare, construction, systems integrator and outsourcer markets in the UK, Europe and Middle East.**

### The Challenge

Over the last decade, WLANs have gained strong popularity in a number of vertical markets, including the health-care, retail, manufacturing, warehousing, and academic arenas. These industries have profited from the productivity gains of using hand-held terminals and notebook computers to transmit real-time information to centralised hosts for processing.

Today WLANs are becoming more widely recognised as a general-purpose connectivity alternative for a broad range of business customers. But wireless networking is more than just a tool for mobile connectivity, it's a technology that can differentiate you from the competition and help you surpass business goals.

### The Solution

ITM's expertise extends across the design, installation and support of wireless solutions; bringing together intelligent cabling solutions that deliver best-in-class performance for all your wireless requirements:

#### **Public – WiFi Hotspots**

Provisioning of a wireless environment coupled with back end service management systems providing tariff based internet connectivity offering a revenue share model for the site owner.

#### **Corporate – WiFi Hotspot**

Provisioning of an internal wireless network linked to a portal based user authentication site to provide guest internet services within a corporate environment.

#### **Private Wireless LANs**

Provisioning of internal wireless networks as a complimentary technology to structured cabling or as an alternative where cabling may not be possible. Typical applications include – training rooms, boardrooms and local site building-to-building communication.

#### **Point to Point Wireless LANs**

Providing connectivity between buildings with either WiFi or Laser technology where it is not practical to run copper cables or fibre.

## Implementation

### Site Surveys

As the strength of the received signal decreases so does the bandwidth available to the end user. The objective of a WiFi site survey is to identify the placement of the access points to provide the coverage and performance that the applications require.

### Wireless Design

ITM is able to provide skilled professionals that can take the information generated within the site survey and design the fully operational WiFi infrastructure to provide access to the Internet or corporate LAN; ensuring that access control and security meets the corporate standards.

### Wireless Installations


With a dedicated team of engineers, ITM is able to install the access points in the required locations and at the same time service any power or cabling requirements that may be needed for the access points. The access points and wireless devices will be configured as agreed with the client to ensure any security issues are addressed.

### Wireless Support

Being able to cover the UK, ITM is able to provide a range of onsite services including break/fix, configuration and general health checks and support.

## Solution Benefits

- Provide users with access to real-time information anywhere in their organisation; supporting productivity and service opportunities not possible with wired networks
- Installation of a wireless LAN system is fast and easy and can eliminate the need to pull cable through walls and ceilings
- Wireless technology allows the network to go where wire cannot go
- Reduced Total Cost of Ownership (TCO): While the initial investment required for wireless LAN hardware can be high, overall installation expenses and life-cycle costs are significantly lower
- Scalable: Wireless LAN systems can be configured in a variety of topologies to meet the needs of specific applications and installations:
  - Green technologies
  - Building Energy Management Systems
  - AV
  - Cashless vending
  - IPTV



By adopting a flexible approach to client requirements, ITM applies best of breed technology, in-house expertise and innovation, to deliver compliant solutions and services that offer value for money and achieve industry best practice.

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