



# MOTOROLA TRIUMPHS WITH SECURE WIRELESS LAN FOR ST ANDREW'S HEALTHCARE

ROBUST INDOOR-OUTDOOR WIRELESS INFRASTRUCTURE HEIGHTENS STAFF SECURITY



St Andrew's is the United Kingdom's largest charitable provider of secure mental health care. It specialises in learning disabilities, progressive and neurodegenerative conditions as well as acquired brain injury and offers state-of-the-art therapeutic and recreational facilities. Some 3500 staff are employed at the main site in Northampton and at regional units in Essex, Birmingham and Nottinghamshire.

St Andrew's Northampton site stretches across 106 acres of parkland and features a golf course, chapel, multi-gym, school and indoor swimming pool. Residents are accommodated in primary care suites or units with their own private gardens.

The security of staff and patients is of primary concern for St Andrew's and this has resulted in the deployment of a secure wireless network across its campuses. Delivered through Motorola and together with St. Andrew's technology partner Comtact, the infrastructure supports voice, data and real-time tracking of staff protection devices – indoors and outside.

## CUSTOMER PROFILE

### Company

St Andrew's Healthcare  
United Kingdom

### Technology Partner

Contact Ltd

### Industry

Healthcare

### Product Name

- Wireless Next Generation Architecture (RFS7000)
- 802.11n Access Points (AP7131, AP650)
- Motorola AirDefense

### Solution Features

- Reliable indoor-outdoor coverage
- Real-time voice, data, video and locationing services
- High throughput and resilience
- Ongoing trouble-shooting and intrusion protection

### Benefits Features

- Greater staff security
- Enhanced efficiency
- On-demand WiFi access
- Secure and easy to manage

**We are able to provide staff with remote 24/7 security and patient monitoring and provide access to the information they need at the point of care.**

Paul Kirkpatrick, IT Director at St Andrew's Healthcare

## THE CHALLENGE

### Reliable campus-wide coverage required to locate staff in real time

The Medium Secure Healthcare guidelines require a staff alarm attack system to operate even when covered by an item of clothing and to be able to archive data. A single device should enable staff to raise an emergency alarm and to receive location and identity information when alarms are raised by others. The system should also provide coverage in all areas within the secure perimeter.

St Andrew's sought a fail-proof solution with built in redundancy that would enable staff to be located anywhere on site. As patients enjoy regular use of the extensive grounds and outdoor facilities, they required a system that could perform outdoors as well as inside.

In addition, the network needed to provide secure WiFi access for staff, delivering information at the point of care and supporting Voice over IP and video surveillance.

Several competitor products were evaluated and Motorola was awarded the tender following a pilot test which demonstrated the superior capabilities of its robust wireless LAN portfolio.

## THE SOLUTION

"Network-in-a-box" Delivers Uninterrupted Connectivity St Andrew's network is comprised of RFS7000 wireless switches, AP7131 and AP650 802.11n Access Points and is secured by Motorola's AirDefense intrusion prevention system.

The RFS7000's Wireless Next Generation (Wi-NG) architecture optimises performance and resilience for large wireless enterprise or campus networks. Capable of delivering voice and data for up to 96 000 users, it supports real-time locationing for asset tracking and gapfree security on a single platform.

Indoor and outdoor wireless access points provide uninterrupted coverage, creating a "network-in-a-box". Based on self-forming, self-healing mesh technology, they can be managed and configured centrally and remotely via the wireless switches.

The AP650 is a thin, multi-purpose Access Point designed for use in headquarters and branch offices. Its ability to dynamically sense weak signals and transfer users to alternative Access Points provides a secure, mobile wireless LAN that meets the 802.11n standard for higher data throughput and greater link reliability. The AP650 supports voice over wireless LAN and locationing services as well as hotspots.

High-speed access for data, voice, video and mesh networking is delivered by the AP7131 Adaptive Services Access Point, which offers speeds up to 600 Mbps. This device meets the demand for mobile applications with the coverage and resiliency required to expand the wireless enterprise outdoors. It can be deployed as a stand-alone wireless access point or adopted by the RFS7000 switch for centralised configuration and management of the network.

Motorola's AirDefense wireless intrusion protection safeguards the network by eliminating rogue devices as well as detecting and blocking undesired behaviour from network users. It facilitates the enforcement of a controlled wireless security policy and provides gap-free indoor and outdoor protection. Constant monitoring and advanced troubleshooting identifies wireless LAN configuration issues that can affect business-critical applications, enabling centralised management of the wireless network's performance.

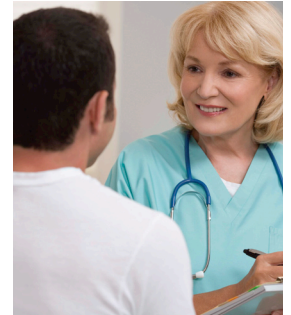
St Andrew's wireless infrastructure has been configured to enable staff attack devices to be connected to a minimum of four access points at one time, creating a triangulated solution for the location of staff members as well as a spare link for redundancy.

### Bringing Data to the Point of Care

The field-proven technology deployed in St. Andrew's wireless LAN provides a robust, secure infrastructure that delivers reliable voice and data services to staff where and when they need them. Staff and patient safety has been reinforced through the ability to track and locate staff in real time, improving response times if an incident occurs.

"We are able to provide staff with remote 24/7 security and patient monitoring and provide access to the information they need at the point of care," said Paul Kirkpatrick, IT Director at St Andrew's Healthcare.

The network can be scaled to accommodate additional applications in the future such as mobile devices to aid drug management, integrated door security technologies and video surveillance, providing a future-proof infrastructure to maximise St Andrews' investment.



### St Andrew's Chooses Secure Wireless LAN for On-demand Data and Staff Tracking

Motorola's indoor-outdoor secure mobile wireless network is providing highspeed voice, data and real-time tracking of staff protection devices for St Andrew's, the UK's foremost provider of mental health care. The wireless infrastructure has improved staff security by enabling their location to be identified instantly throughout the site and has enhanced efficiency through access to information at the point of care.

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ST\_ANDREWS\_HEALTHCARE/CASESTUDYUK(11/10)



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