

WHO: Lawn Tennis Association

WHERE: London, UK

WHY: Provide wireless mobility including WVoIP for staff and tennis players



case study

With the completion of the National Tennis Centre it was essential that a wireless network including WVoIP was specifically designed and implemented in time for the eagerly awaited opening of the NTA by the Queen...

National Tennis Centre...

The LTA is a visionary and creative organisation, as well as a sanctioning body, with one of its chief aims being to promote tennis at adult, junior and community level.

In 1999 the LTA undertook an extensive review of the sport to understand the factors that had effectively turned tennis in this country into a social leisure activity for a few, rather than a competitive sport to be enjoyed by many millions.

As a result, the LTA revised its strategy around two central programmes - Club Vision and the Performance Plan (delivered through the National Performance Programme) - designed to produce more players and better players.

A National Tennis Centre provides a one-site national focus for the sport in Great Britain and offers players the very best opportunity to realise their potential by offering world-class facilities and back-up. It supports the regional structure of Nationally Accredited Performance Programmes and National Junior Tennis Centres that is now in place.

Lawn Tennis Association

sport



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The Requirements

- Reliable system providing uninterrupted service
- Wireless mobility for all staff incorporating a complete voice solution
- Per-user security to allow for staff, contractor and student access
- Minimum administration or user intervention

Business Situation...

With the completion of the National Tennis Centre providing world class facilities for elite British tennis players as well as being the new corporate headquarters, the Lawn Tennis Association were aware that an integrated voice and data system would be crucial for its success.

With accommodation for athletes including learning zones and recreation lounges, internet access was a necessity.

It was also essential for staff to have wireless mobility around the facility, including WVoIP and for contractors and event personnel to be able to gain access to the network.

Installing a network to fulfil these requirements would normally be a simple and straightforward task but the challenge facing the LTA was to find equipment that could deal with the structure of the building: The thick concrete and highly reflective glass and metal would dampen and obscure signal therefore not being the ideal environment for Wi-Fi.

The Technology

- Aruba 2400 Mobility Controller
- Aruba AP's
- Mitel 3300
- Spectralink SVP Wi-Fi single mode handsets

The Benefits

- Secure, scalable, cost-efficient solution
- Reduced capital investment utilising converged communications technology
- High speed access with traffic prioritisation and load balancing
- Interference detection and automatic channel selection delivering optimal coverage
- Complete mobility

REACT's Solution...

REACT were able to overcome the major issue of signal interference by choosing Aruba, SpectraLink and Mitel equipment creating a converged mobile voice and data communications network.

WVoIP was provided by SpectraLink handsets and server, interfacing to a Mitel telephone system. With different levels of priority assigned to various network traffic the system delivers superior voice quality with seamless roaming throughout the complex whilst maintaining a high quality of service for all other traffic.

The LTA were assured that the network was completely protected from external or internal threats by the intrusion detection module and identity based security allowing employees and guests secure access to specific areas on a per-user basis.

Aruba's intelligent system with automatic RF management self-tunes and heals each access points and any additional points added, thus increasing efficiency, providing optimal coverage and reducing operating time and costs whilst also enabling easy and economic growth of the network.

Why REACT Technologies?

We understand that in today's ever evolving business world it is imperative that our customers have cutting edge technology that is adaptable, cost efficient and secure. With a wide range of professional products and services we provide scalable, bespoke solutions that suit your requirements and ensure flexibility and ease with continuing maintenance and support.