

Cape Town International Convention Centre



EXECUTIVE OVERVIEW

The CTICC is a 9,500-seat multi-purpose arena in Cape Town, South Africa. It serves as a multi-functional entertainment venue, hosting International Conferences, sports, music and live entertainment events. In order to support a busy event schedule and maintain the state-of-the-art facility, The CTICC required a reliable wireless network that could supply enough bandwidth to support 9,500 attendees, media personnel and tenants in a single area. The CTICC's ultimate goal was to cost-effectively increase their overall coverage and performance by upgrading to a high density, reliable wireless network.

Supporting large centralised areas of density, while also blanketing a large facility, is one of the ultimate wireless challenges for arena and event spaces alike. It became apparent to The CTICC that their current wireless solution wouldn't offer the reliability or the coverage required for success.

SOLUTION

The Xirrus wireless solution was the only wireless architecture that could deliver the necessary density and coverage for thousands of attendees, at half the cost of competitive solutions. The CTICC was able to replace the traditional wireless access points with Xirrus wireless Arrays and greatly improve the performance of their wireless Internet services provided to their attendees and tenants.

The CTICC deployment provides yet another real-world example that high performance wireless exists today and can easily extend the wired

ORGANISATION DESCRIPTION

CTICC is a world class Convention Centre in Cape Town South Africa .

OBJECTIVE

- A stable, reliable and secure wireless solution.
- Seamless integration in the existing wired network.
- High Speed High Density WiFi for 1000's of devices.

SOLUTION

- Support exceptionally high densities of users and massive roaming crowds at conferences and events
- Cover enormous indoor and outdoor areas with over 75% less equipment, cable runs, and switch ports.
- Scale capacity and adopt new standards simply by adding radios to existing Arrays with no rip-and-replace or changes to the wired-infrastructure.
- Transition gracefully to less congested 5GHz channels through software-programmable radios as mobile devices migrate away from 2.4GHz.



network to the ‘air’ without compromise. With the Xirrus product, the

CTICC was able to maximize the number of wireless radios in the air, while deploying far fewer devices to cover their facility.

From site survey to installation, it was obvious to the CTICC that Xirrus was committed to the success of their entertainment venue. The Xirrus Arrays have far exceeded their expectations and continue to deliver reliable wireless coverage with flawless performance for their event critical applications.

RESULT

With the explosion of smartphones and tablets, mobility has become ubiquitous. People expect to connect wirelessly. Organizations depend on high-bandwidth to send and receive voice, video and data, from any device to any one. And no one delivers better than Xirrus. Our array-based solutions are unique. They draw from cellular tower design principles to provide wired-like reliability, increased user density and capacity plus superior security. They perform under the most demanding conditions and have lower infrastructure requirements. When integrated with business and IT objectives, they help you do more than ever before.

At Xirrus, we apply the “best practices” of wired networking to wireless infrastructures by distributing the intelligence to the edge and outfitting the Array with dense multistate radios in the same manner as a wired switch. That’s how Xirrus delivers the best performing, most scalable wireless solutions in the industry. It’s a strategic IT infrastructure advantage that fuels organisations. Xirrus does wireless networks right.

BENEFITS

- Bandwidth to connect over 9,500 attendees
- 4X the coverage and up to 8X the bandwidth and capacity to service high user density.
- Arrays that integrate 4 to 16 radios, high-gain directional antennas, a multi-gigabit switch, controller, firewall, and threat sensor into a single access device.
- A level of reliability and security as good or better than wired.